PORT OF OAKLAND

March 8, 1993

Mr. Paul Smith
Hazardous Materials Division
Department of Environmental Health
Alameda County Health Services Agency
80 Swan Way, Room 200
Oakland, CA 94621

for map depicting 12 borings attached
see Source Control wkplan Jan 20, 1993
page 2-6

SUBJECT: Information you requested regarding BTEX contamination associated with *Keep on Trucking*, 370 8th Avenue, Oakland, CA 94606

Dear Mr. Smith:

This responds to your request for additional information and written confirmation of the Benzene, Toluene, Ethylbenzene p,m,-Xylene, and o-Xylene (BTEX) results from all the soils and water analysis that has been conducted for the Keep on Trucking (KOT) project. In addition, I have included a copy of the letter confirming the approval to discharge stored rain water collected at the 9th Avenue terminal, sent as a follow-up to a phone conversation with Mr. Ray Balcom of the RWQCB.

The Port of Oakland's consultant, Uribe and Associates, have compiled an overview of the BTEX sampling for each of the twelve boreholes. In addition they have put the analytical results into a tabular form including the sample matrix, sample identification, analyte, detection limit and result.

The letter to Mr. Balcom of the RWQCB documents a conversation between he and Ed Kilduff of Uribe and Associates. After reviewing sampling results of the stored storm water, Mr. Balcom approved discharge of the water to the estuary, on 3 February 1993.

If you have any questions regarding this letter, please contact me at (510) 272-1184.

Sincerely,

Jon Amdur

Jon Amdur
Environmental Scientist

cc: Mr. Ray Balcom, SFRWQCB, 2101 Webster Street, 5th Floor, Oakland, CA 94612
Mr. Rich Hiett, SFRWQCB, 2101 Webster Street, 5th Floor, Oakland, CA 94612
Mr. Dale Wong, CA Department of Fish and Game, Office of Oil Spill Prevention and Response, P.O. Box 944209, Sacramento, CA 94244

530 Water Street ■ Jack London's Waterfront ■ P.O. Box 2064 ■ Oakland, California 94604-2064
Telephone (510) 272-1100 ■ Fax (510) 272-1172 ■ Cable address, PORTOFOAK, Oakland

Captain J.M. MacDonald, U.S. Coast Guard, Marine Safety Office, Building 14, Coast Guard Island, Alameda, CA 94591-5100

Ensign John Park, MER Division, Building 14, Marine Safety Office, San Francisco Bay, Coast Guard Island, Alameda, CA 94501

Mr. Gil Jensen, Alameda County District Attorneys Office of Consumer and Environmental Affairs, 7677 Oakport Dr., Suite 400, Oakland, CA 94621

LABORATORY RESULTS OVERVIEW

The following provides an overview of the laboratory results for the 12 borings conducted at the site. The table that follows this overview summarizes the BTEX results in more detail.

Borehole 1 - TRPH levels of 110 mg/kg maximum detected in soil. No diesel detected in soil. No BTEX analysis was conducted for soil. Groundwater was encountered and no diesel was detected in groundwater. No other groundwater analyses were conducted.

Borehole 2 - TRPH levels of 210 mg/kg maximum detected in soil. No diesel detectec in soil. No BTEX analysis was conducted for soil. No groundwater encountered.

Borehole 3 - TRPH levels of 100 mg/kg maximum detected in soil. No diesel detected in soil. No BTEX analysis was conducted for soil. Groundwater was encountered and no diesel was detected in groundwater. No other groundwater analyses were conducted.

Borehole 4 - TRPH levels of 320 mg/kg maximum detected in soil. No diesel detected in soil. No BTEX analysis was conducted for soil. No groundwater encountered.

Borehole 5 - TRPH levels of 320 mg/kg maximum detected in soil. No diesel detected in soil. No BTEX analysis was conducted for soil. Groundwater was encountered and no diesel nor BTEX were detected in groundwater. No other groundwater analyses were conducted.

Borehole 6 - TRPH levels of 640 mg/kg maximum detected in soil. No diesel detected in soil. No BTEX detected in soil. No groundwater encountered.

Borehole 7 - TRPH levels of 50 mg/kg maximum detected in soil. No diesel detected in soil. No BTEX detected in soil. Groundwater was encountered and no diesel nor BTEX were detected in groundwater. No other groundwater analyses were conducted.

Borehole 8 - No diesel detected in soil. No BTEX detected in soil. No other soil analyses were conducted. Soils were moist to wet but no groundwater collected in the borehole and no water samples were collected or analyzed.

Borehole 9 - No diesel detected in soil. No BTEX detected in soil. No other soil analyses were conducted. Soils were moist to wet but no groundwater collected in the borehole and no water samples were collected or analyzed.

Borehole 10 - No diesel detected in soil. No BTEX detected in soil. No other soil analyses were conducted. Soils were moist to wet but no groundwater collected in the borehole and no water samples were collected or analyzed.

Borehole 11 - No diesel detected in soil. No BTEX detected in soil. No other soil analyses were conducted. Soils were moist to wet but no groundwater collected in the borehole and no water samples were collected or analyzed.

Borehole 12 - No diesel detected in soil. No BTEX detected in soil. No other soil analyses were conducted. Soils were moist to wet but no groundwater collected in the borehole and no water samples were collected or analyzed.

Table 1
SUBSURFACE INVESTIGATION SAMPLING RESULTS
(Summary of BTEX Results)

Borehole-Matrix	Depth (feet)	Sample ID	Analysis	Result (mg/L)[1] (mg/kg)[2]	Detection Limit (mg/L)[1] (mg/kg)[2]
B5-Water	N/A	9AV-B5-W1	Benzene	ND[1]	0.005[1]
B5-Water	N/A	9AV-B5-W1	Toluene	ND[1]	0.005[1]
B5-Water	N/A	9AV-B5-W1	Ethylbenzene	ND[1]	0.005[1]
B5-Water	N/A	9AV-B5-W1	p,m-Xylene	ND[1]	0.005[1]
B5-Water	N/A	9AV-B5-W1	o-Xylene	ND[1]	0.005[1]
B6-Soil	7	9AV-B6-7	Benzene	ND[2]	0.005[2]
B6-Soil	7	9AV-B6-7	Toluene	ND[2]	0.005[2]
B6-Soil	7	9AV-B6-7	Ethylbenzene	ND[2]	0.005[2]
B6-Soil	7	9AV-B6-7	p,m-Xylene	ND[2]	0.005[2]
B6-Soil	7	9AV-B6-7	o-Xylene	ND[2]	0.005[2]
B7-Soil	10	9AV-B10-10	Benzene	ND[2]	0.005[2]
B7-Soil	10	9AV-B10-10	Toluene	ND[2]	0.005[2]
B7-Soil	10	9AV-B10-10	Ethylbenzene	ND[2]	0.005[2]
B7-Soil	10	9AV-B10-10	p,m-Xylenes	ND[2]	0.005[2]
B7-Soil	10	9AV-B10-10	o-Xylenes	ND[2]	0.005[2]
B7-Water	N/A	9AV-B10-W1	Benzene	ND[1]	0.005[1]
B7-Water	N/A	9AV-B10-W1	Toluene	ND[1]	0.005[1]
B7-Water	N/A	9AV-B10-W1	Ethlybenzene	ND[1]	0.005[1]
B7-Water	N/A	9AV-B10-W1	p,m-Xylenes	ND[1]	0.005[1]
B7-Water	N/A	9AV-B10-W1	o-Xylenes	ND[1]	0.005[1]

Continued on next page

Table 1 (continued)
SUBSURFACE INVESTIGATION SAMPLING RESULTS
(Summary of BTEX Results)

Borehole-Matrix	Depth (feet)	Sample ID	Analysis	Result (mg/L)[1] (mg/kg)[2]	Detection Limit (mg/L)[1] (mg/kg)[2]
B8-Soil	5	1217-1-5	TCLP - Benzene	ND[1]	0.02[1]
B8-Soil	5	1217-1-5	TCLP - Toluene	ND[1]	0.02[1]
B8-Soil	5	1217-1-5	TCLP - Ethylbenzene	ND[1]	0.02[1]
B8-Soil	5	1217-1-5	TCLP - p,m-Xylene	ND[1]	0.02[1]
B8-Soil	5	1217-1-5	TCLP - o-Xylene	ND[1]	0.02[1]
B8-Soil	10	1217-1-10	TCLP - Benzene	ND[1]	0.02[1]
B8-Soil	10	1217-1-10	TCLP - Toluene	ND[1]	0.02[1]
B8-Soil	10	1217-1-10	TCLP - Ethylbenzene	ND[1]	0.02[1]
B8-Soil	10	1217-1-10	TCLP - p,m-Xylene	ND[1]	0.02[1]
B8-Soil	10	1217-1-10	TCLP - o-Xylene	ND[1]	0.02[1]
B8-Soil	16	1217-1-16	TCLP - Benzene	ND[1]	0.02[1]
B8-Soil	16	1217-1-16	TCLP - Toluene	ND[1]	0.02[1]
B8-Soil	16	1217-1-16	TCLP - Ethylbenzene	ND[1]	0.02[1]
B8-Soil	16	1217-1-16	TCLP - p,m-Xylene	ND[1]	0.02[1]
B8-Soil	16	1217-1-16	TCLP - o-Xylene	ND[1]	0.02[1]
B9-Soil	5.5	1217-2-5.5	TCLP - Benzene	ND[1]	0.02[1]
B9-Soil	5.5	1217-2-5.5	TCLP - Toluene	ND[1]	0.02[1]
B9-Soil	5.5	1217-2-5.5	TCLP - Ethylbenzene	ND[1]	0.02[1]
B9-Soil	5.5	1217-2-5.5	TCLP - p,m-Xylene	ND[1]	0.02[1]
B9-Soil	5.5	1217-2-5.5	TCLP - o-Xylene	ND[1]	0.02[1]
B9-Soil	10.5	1217-2-10.5	TCLP - Benzene	ND[1]	0.02[1]
B9-Soil	10.5	1217-2-10.5	TCLP - Toluene	ND[1]	0.02[1]
B9-Soil	10.5	1217-2-10.5	TCLP - Ethylbenzene	ND[1]	0.02[1]
B9-Soil	10.5	1217-2-10.5	TCLP - p,m-Xylene	ND[1]	0.02[1]
B9-Soil	10.5	1217-2-10.5	TCLP - o-Xylene	ND[1]	0.02[1]
B9-Soil	16	1217-2-16	TCLP - Benzene	ND[1]	0.02[1]
B9-Soil	16	1217-2-16	TCLP - Toluene	ND[1]	0.02[1]
B9-Soil	16	1217-2-16	TCLP - Ethylbenzene	ND[1]	0.02[1]
B9-Soil	16	1217-2-16	TCLP - p,m-Xylene	ND[1]	0.02[1]
B9-Soil	16	1217-2-16	TCLP - o-Xylene	ND[1]	0.02[1]

Continued on next page

Table 1 (continued)
SUBSURFACE INVESTIGATION SAMPLING RESULTS
(Summary of BTEX Results)

Borehole-Matrix	Depth (feet)	Sample ID	Analysis	Result (mg/L)[1] (mg/kg)[2]	Detection Limit (mg/L)[1] (mg/kg)[2]
B10-Soil	5	1217-3-5	TCLP - Benzene	ND[1]	0.02[1]
B10-Soil	5	1217-3-5	TCLP - Toluene	ND[1]	0.02[1]
B10-Soil	5	1217-3-5	TCLP - Ethylbenzene	ND[1]	0.02[1]
B10-Soil	5	1217-3-5	TCLP - p,m-Xylene	ND[1]	0.02[1]
B10-Soil	5	1217-3-5	TCLP - o-Xylene	ND[1]	0.02[1]
B10-Soil	10	1217-3-10	TCLP - Benzene	ND[1]	0.02[1]
B10-Soil	10	1217-3-10	TCLP - Toluene	ND[1]	0.02[1]
B10-Soil	10	1217-3-10	TCLP - Ethylbenzene	ND[1]	0.02[1]
B10-Soil	10	1217-3-10	TCLP - p,m-Xylene	ND[1]	0.02[1]
B10-Soil	10	1217-3-10	TCLP - o-Xylene	ND[1]	0.02[1]
B10-Soil	15.5	1217-3-15.5	TCLP - Benzene	ND[1]	0.02[1]
B10-Soil	15.5	1217-3-15.5	TCLP - Toluene	ND[1]	0.02[1]
B10-Soil	15.5	1217-3-15.5	TCLP - Ethylbenzene	ND[1]	0.02[1]
B10-Soil	15.5	1217-3-15.5	TCLP - p,m-Xylene	ND[1]	0.02[1]
B10-Soil	15.5	1217-3-15.5	TCLP - o-Xylene	ND[1]	0.02[1]
B11-Soil	4	1217-4-4	TCLP - Benzene	ND[1]	0.02[1]
B11-Soil	4	1217-4-4	TCLP - Toluene	ND[1]	0.02[1]
B11-Soil	4	1217-4-4	TCLP - Ethylbenzene	ND[1]	0.02[1]
B11-Soil	4	1217-4-4	TCLP - p,m-Xylene	ND[1]	0.02[1]
B11-Soil	4	1217-4-4	TCLP - o-Xylene	ND[1]	0.02[1]
B11-Soil	5.5	1217-4-5.5	TCLP - Benzene	ND[1]	0.02[1]
B11-Soil	5.5	1217-4-5.5	TCLP - Toluene	ND[1]	0.02[1]
B11-Soil	5.5	1217-4-5.5	TCLP - Ethylbenzene	ND[1]	0.02[1]
B11-Soil	5.5	1217-4-5.5	TCLP - p,m-Xylene	ND[1]	0.02[1]
B11-Soil	5.5	1217-4-5.5	TCLP - o-Xylene	ND[1]	0.02[1]
B11-Soil	7.5	1217-4-7.5	TCLP - Benzene	ND[1]	0.02[1]
B11-Soil	7.5	1217-4-7.5	TCLP - Toluene	ND[1]	0.02[1]
B11-Soil	7.5	1217-4-7.5	TCLP - Ethylbenzene	ND[1]	0.02[1]
B11-Soil	7.5	1217-4-7.5	TCLP - p,m-Xylene	ND[1]	0.02[1]
B11-Soil	7.5	1217-4-7.5	TCLP - o-Xylene	ND[1]	0.02[1]

Continued on next page

Table 1 (continued)
SUBSURFACE INVESTIGATION SAMPLING RESULTS
(Summary of BTEX Results)

Borehole-Matrix	Depth (feet)	Sample ID	Analysis	Result (mg/L)[1] (mg/kg)[2]	Detection Limit (mg/L)[1] (mg/kg)[2]
B12-Soil	4.5	1217-5-4.5	TCLP - Benzene	ND[1]	0.02[1]
B12-Soil	4.5	1217-5-4.5	TCLP - Toluene	ND[1]	0.02[1]
B12-Soil	4.5	1217-5-4.5	TCLP - Ethylbenzene	ND[1]	0.02[1]
B12-Soil	4.5	1217-5-4.5	TCLP - p,m-Xylene	ND[1]	0.02[1]
B12-Soil	4.5	1217-5-4.5	TCLP - o-Xylene	ND[1]	0.02[1]
B12-Soil	6	1217-5-6	TCLP - Benzene	ND[1]	0.02[1]
B12-Soil	6	1217-5-6	TCLP - Toluene	ND[1]	0.02[1]
B12-Soil	6	1217-5-6	TCLP - Ethylbenzene	ND[1]	0.02[1]
B12-Soil	6	1217-5-6	TCLP - p,m-Xylene	ND[1]	0.02[1]
B12-Soil	6	1217-5-6	TCLP - o-Xylene	ND[1]	0.02[1]
B12-Soil	8	1217-5-8	TCLP - Benzene	ND[1]	0.02[1]
B12-Soil	8	1217-5-8	TCLP - Toluene	ND[1]	0.02[1]
B12-Soil	8	1217-5-8	TCLP - Ethylbenzene	ND[1]	0.02[1]
B12-Soil	8	1217-5-8	TCLP-p,m - Xylene	ND[1]	0.02[1]
B12-Soil	8	1217-5-8	TCLP - o-Xylene	ND[1]	0.02[1]

ND: indicates a non-detect.
TRPH: Total recoverable petroleum hydrocarbons.
Diesel: Total petroleum hydrocarbons measured as diesel.
TCLP: Indicates that the test is run on the liquid extract from the Toxicity Characteristic Leaching Procedure
Additional laboratory results for other analyses are provided in Appendix C.
Boring Logs are provided in Appendix D and copies of drilling permits are in Appendix E.

URIBE & ASSOCIATES
2930 LAKESHORE AVENUE
SUITE TWO HUNDRED
OAKLAND, CALIFORNIA 94610
510 · 832 · 2233
FAX 510 · 832 · 2237

ENVIRONMENTAL CONSULTING SERVICES

February 3, 1993

Mr. Ray Balcom
Regional Water Quality Control Board
1800 Harrison Street
Oakland, CA 94162

SUBJECT: Verbal Approval for the One-Time Discharge of Stored Water at the Ninth Avenue Terminal, Port of Oakland.

Dear Mr. Balcom:

This is to confirm the telephone conversation we had this afternoon (Wednesday, February 3, 1993). Based upon the laboratory results provided to you in late January, you approved the one-time discharge of the water held in the temporary storage tanks at the Ninth Avenue Terminal Area. Uribe & Associates (U&A), on the behalf of the Port of Oakland (Port), will arrange for this to occur as soon as possible. As you stipulated, we will monitor the discharge, and if any sheen appears, we will cease discharging.

Since late October 1992, booms have been in place at the site continuously. We will keep them up during the discharge as a precaution. Assuming the discharge proceeds without incident, they will then be removed, as agreed with Chief Eckenrode of the U.S. Coast Guard on February 2, 1993.

If you have any questions, please contact me at (510) 832-2233.

Sincerely,

Ed Kilduff, Associate
URIBE & ASSOCIATES

cc: Jon Amdur, Port of Oakland

Barney Chan
9/12/94 BChan
Not notification required

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 510/271-4320

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 and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure 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 NOT
OBTAINING A PERMIT BEFORE WORK.

UNDERGROUND TANK CLOSURE PLAN

*** * * Complete according to attached instructions * * ***

1. Business Name Port of Oakland

   Business Owner Port of Oakland

2. Site Address 370 8th Avenue 94606

   City Oakland Zip 94607 Phone (510) 272-1100

3. Mailing Address P.O. Box 2064

   City Oakland Zip 94604-2064 Phone (510) 272-1100

4. Land Owner Port of Oakland

   Address 530 Water Street City, State CA Zip 94604-2064

5. Generator name under which tank will be manifested Port of Oakland

   EPA I.D. No. under which tank will be manifested CAC000094143

6. Contractor Environmental Investigation & Action

Address 22390 Thunderbird Place

City Hayward Phone (510) 264-9081

License Type* A, Haz ID# 584846

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.

7. Consultant Same as 6#.

Address

City Phone

8. Contact Person for Investigation

Name Bob Mercado Title Sales Manager

Phone (510) 264-9081

9. Number of tanks being closed under this plan 1

Length of piping being removed under this plan approx. 8 ft.

Total number of tanks at facility 1

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground tanks are hazardous waste and must be handled ** as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter

Name Environmental Investigation & Action EPA I.D. No. CAD983663089

Hauler License No. 2621 License Exp. Date 6/30/95

Address 22390 Thunderbird Place

City Hayward State CA Zip 94545

b) Product/Residual Sludge/Rinsate Disposal Site

Name Gibson EPA I.D. No. CAD045260702

Address 475 Seaport Blvd.

City Redwood City State CA Zip 94063

rev 3/92

c) Tank and Piping Transporter

Name Environmental Investigation + Action EPA I.D. No. CAD983663089

Hauler License No. 2621 License Exp. Date June 30 1995

Address 22390 Thunderbird Place

City Hayward State CA Zip 94545

d) Tank and Piping Disposal Site

Name Crosby + Overton EPA I.D. No. CAD028409019

Address 1630 W. 17th Street

City Long Beach State CA Zip 90813

11. Experienced Sample Collector

Name Tonya Moniz

Company Environmental Investigation + Action

Address 22390 Thunderbird Place

City Hayward State CA Zip 94545 Phone (510) 264-9081

12. Laboratory

Name On Site Environmental Laboratories

Address 5500 Bascell Common

City Fremont State CA Zip 94538

State Certification No. 3914543 98

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

If yes, describe. Unknown

14. Describe methods to be used for rendering tank inert

Use dry ice prior to removal to lower limits to ~~explo~~ acceptable level.
15-25 # dry ice / 1000 gallon volume

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. **It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.**

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
2,000	Unknown	probable groundwater Soil	Approx 16ft. under each end of Tank. From each end of tanks, 1-2' into native soil beneath tanks. At soil/GW interface if water present

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated) 20 yds	Sampling Plan As per guidelines. Minimum of 1 Soil Sple.

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
Petroleum Hydrocarbons	TPHg ~~602~~ 5030 BTXE ~~624 or 8240~~ 5030	8015 FID/PID or 8240	~~500~~ 1 ppm .5 ppb
	TPHd 3550	8015	1 ppm

17. Submit Site Health and Safety Plan (See Instructions)

18. Submit Workers' Comp.

Name of Insurer State Fund

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)-

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

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 understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. 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.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) KURT SOTO-GAMBINI

Signature Kurt Soto-Gambini

Date 8/29/94

Signature of Site Owner or Operator

Name (please type) JOHN STEWART / PORT OF OAKLAND

Signature Stewart

Date 8/29/94

Site Map for 370 8th Ave.

8th Ave

Drive Way

Embarcadero

Poor map

Scale?

2,000 gallon tank

Building

Yard

N↑

STATE OF CALIFORNIA
STATE AND CONSUMER SERVICES AGENCY CONTRACTORS STATE LICENSE BOARD

Consumer Affairs

Building Quality

HAZARDOUS SUBSTANCES REMOVAL AND REMEDIAL ACTIONS CERTIFICATION

Pursuant to the provisions of Section 7058.7 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the hazardous substances removal and remedial actions examination.

REGISTRAR OF CONTRACTORS

Qualifier: KENNETH BERTON BARNETT

License No.: 504846

Business Name: ENVIRONMENTAL INVESTIGATION AND ACTION INC.

WITNESS my hand and official seal this
10th day of March, 1992

Registrar of Contractors

CSL-80 (12/91)

This certification is the property of the Registrar of Contractors. It is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason.

A 4808

ACORD. CERTIFICATE OF INSURANCE

CSR MU ENVI200 | ISSUE DATE (MM/DD/YY) 03/28/94

PRODUCER

Jardine Ins. Brokers L.A. Inc.
11835 W Olympic Blvd - 5th Flr
Los Angeles CA 90064

Lisa Murdoch - Account Mgr.
310-444-3333

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.

INSURED

Environmental Investigation
and Action, Inc.
Ms. Donna Saberi
1171 Railroad Street
Corona CA 91720

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A — Commerce & Industry Ins. Co.

COMPANY LETTER B — American Int'l Surplus Lines

COMPANY LETTER C

COMPANY LETTER D

COMPANY LETTER E

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)	LIMITS	
	GENERAL LIABILITY				GENERAL AGGREGATE	$2,000,000
A	X COMMERCIAL GENERAL LIABILITY	GL 340 54 58	03/17/94	03/17/95	PRODUCTS-COMP/OP AGG.	$1,000,000
	X CLAIMS MADE OCCUR.	Retrodate: 3/17/94			PERSONAL & ADV. INJURY	$1,000,000
	OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE	$1,000,000
					FIRE DAMAGE (Any one fire)	$ 50,000
					MED. EXPENSE (Any one person)	$ 5,000
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT	$1,000,000
A	ANY AUTO	#277 20 78	08/18/94	08/18/95		
	X ALL OWNED AUTOS				BODILY INJURY (Per person)	$
	SCHEDULED AUTOS					
	X HIRED AUTOS				BODILY INJURY (Per accident)	$
	X NON-OWNED AUTOS					
	GARAGE LIABILITY				PROPERTY DAMAGE	$
	X Uninsured motorist	$1,000,000 limit-UM				
	EXCESS LIABILITY				EACH OCCURRENCE	$2,000,000
	X UMBRELLA FORM	773 28 32	03/17/94	03/17/95	AGGREGATE	$2,000,000
	OTHER THAN UMBRELLA FORM	$10,000 SIR				
	WORKER'S COMPENSATION				STATUTORY LIMITS	
	AND				EACH ACCIDENT	$
	EMPLOYERS' LIABILITY				DISEASE— POLICY LIMIT	$
					DISEASE— EACH EMPLOYEE	$
	OTHER					
P	Pollution/E & O	#773 15 63	03/17/94	03/17/95	Occ/Agg	$3,000,000
	Claims Made	Retrodate: 3/17/94			Deduct.	$50,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

10 day notice for nonpayment of premium
The State of California, its officers, employees and servants are added as additional insureds as respects the general liability for workad performed at the Chino Men's Prison, contract #1064

CERTIFICATE HOLDER

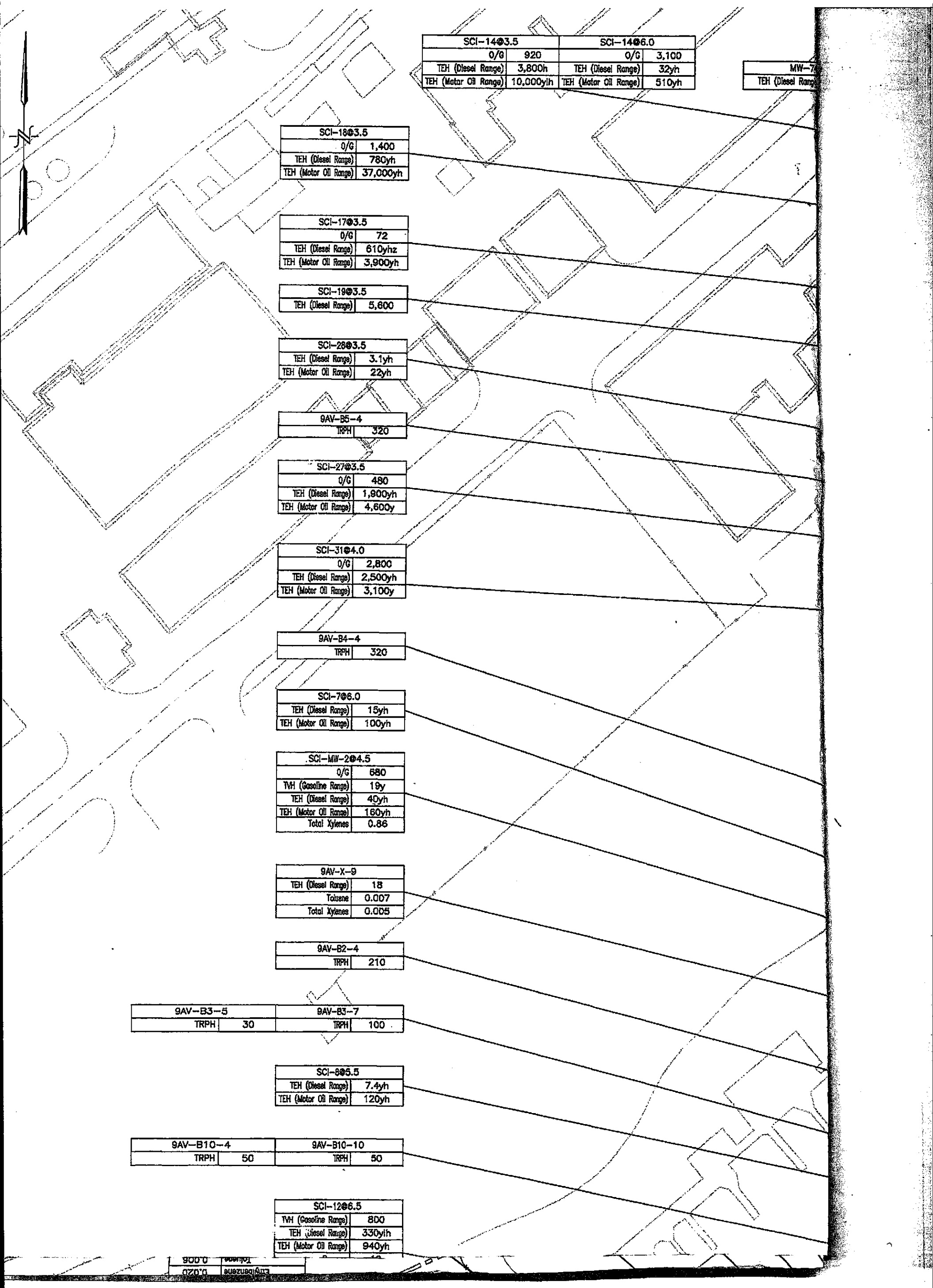
Office of the State Architect
Contract Administraion
400 P Street 5th Floor
Sacramento CA 95814

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 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

Lisa Murdoch - Account Mgr.


SCI-14@3.5
0/G 920
TEH (Diesel Range) 3,800h
TEH (Motor Oil Range) 10,000yih
SCI-14@6.0
0/G 3,100
TEH (Diesel Range) 32yh
TEH (Motor Oil Range) 510yh
MW-7
TEH (Diesel Rang
SCI-18@3.5
0/G 1,400
TEH (Diesel Range) 780yh
TEH (Motor Oil Range) 37,000yh
SCI-17@3.5
0/G 72
TEH (Diesel Range) 610yhz
TEH (Motor Oil Range) 3,900yh
SCI-19@3.5
TEH (Diesel Range) 5,600
SCI-28@3.5
TEH (Diesel Range) 3.1yh
TEH (Motor Oil Range) 22yh
9AV-B5-4
TRPH 320
SCI-27@3.5
0/G 480
TEH (Diesel Range) 1,900yh
TEH (Motor Oil Range) 4,600y
SCI-31@4.0
0/G 2,800
TEH (Diesel Range) 2,500yh
TEH (Motor Oil Range) 3,100y
9AV-B4-4
TRPH 320
SCI-7@6.0
TEH (Diesel Range) 15yh
TEH (Motor Oil Range) 100yh
SCI-MW-2@4.5
0/G 680
TVH (Gasoline Range) 19y
TEH (Diesel Range) 40yh
TEH (Motor Oil Range) 160yh
Total Xylenes 0.86
9AV-X-9
TEH (Diesel Range) 18
Toluene 0.007
Total Xylenes 0.005
9AV-B2-4
TRPH 210
9AV-B3-5
TRPH 30
9AV-B3-7
TRPH 100
SCI-8@5.5
TEH (Diesel Range) 7.4yh
TEH (Motor Oil Range) 120yh
9AV-B10-4
TRPH 50
9AV-B10-10
TRPH 50
SCI-12@6.5
TVH (Gasoline Range) 800
TEH (Diesel Range) 330yih
TEH (Motor Oil Range) 940yh

TE-1	
TVH (Gasoline Range)	21
TEH (Diesel Range)	160
Ethylbenzene	0.14

TE-2	
TVH (Gasoline Range)	25
TEH (Diesel Range)	120

TE-3	
TVH (Gasoline Range)	550
TEH (Diesel Range)	44,000
Benzene	0.32

TE-4	
TVH (Gasoline Range)	43
TEH (Diesel Range)	550

TE-5	
TVH (Gasoline Range)	110
TEH (Diesel Range)	6,900

TE-6	
TVH (Gasoline Range)	5,600h
TEH (Diesel Range)	320
Ethylbenzene	0.010
Total Xylenes	0.020

H-101
H-104
6TH AVE.
H-110
H-103
H-104W
H-113
H-112
DIESEL ENGINE REPAIR
MACHINE SHOP
CLEANING COMPOUND MFG.
POLISH FACTORY
H-225
ASTs
SCDMW-2
DIESEL TANK
(ABOVE GRADE)
B-4
SCI-7
N
SHELL DISTRIBUTORSHIP
BAY CITIES OIL COMPANY
EAST BAY OIL COMPANY
H-224
SD
SS
W

SCI-15@3.0	
O/G	400
TEH (Diesel Range)	10yh
TEH (Motor Oil Range)	540yh

BH-1@20	
TEH (Diesel Range)	24

BH-2@4	
TVH (Gasoline Range)	0.4
TEH (Diesel Range)	43

9AV-B20-1-3.5	9AV
TEH (Diesel Range)	28h

FOUNDRY

MACHINE & GRINDING ROOM

I-880

SCI-15

SS

SD

BH-1

M

FORMER TANK & DISPENSER

BH-2

MW-7

H-107

SCI-18

SCI-17

7TH AVE

KEEP ON TRUCKING LEASE

SCI-19

CONCRETE VAULT (H-210)

H-210

H-231

SCI-26

B-20

EMBARCADERO

W

SCI-13

B-14

UNKNOWMN METALIC ANOMALY

H-212 REPAIR SHOP

E

SCI-16

8TH AVE

B-13

MW-1

MW-2

B-15

UNDERGROUND OIL TANK

KQT OFFICES

SCI-20

FORMER TANK & DISPENSER

B-11

B-12

F

L

D

H-229

MW-3

MW-4

MW-5

H-228

H-232

H

CONCRETE SLAB OVER 5,000 & 2,000 GAL USTs

UST

H-209

SCI-31

B-5

SCI-25

SCI-22

SCI-23

B-16

FORMER ABOVE GROUND TANK

SUMP

SCI-24

B-17

B-6

SCI-21

H-214

FIBERGLASS FORMING

SCI-28

G

KEEP ON TRUCKING LEASE

H-213

CHEMICAL WAREHOUSE

H-215

P

DRUM & MISC METAL STORAGE

B-3-9.5	
nge)	41h

9AV-B19-1-0.4		9AV-B19-2-7.0		9AV-B19-3-9.5	
TEH (Diesel Range)	350h	TEH (Diesel Range)	19	TEH (Diesel Range)	60

SCI-26@3.5	
O/G	120
TEH (Diesel Range)	1,300
TEH (Motor Oil Range)	84yh1

SCI-13@4.5	
O/G	630
TEH (Diesel Range)	97yh
TEH (Motor Oil Range)	2,100yh

SCI-MW-1@4.5	
O/G	56
TEH (Diesel Range)	19yh
TEH (Motor Oil Range)	51y
Toluene	0.014

9AV-B18-2-9.5	
TEH (Diesel Range)	34h

SCI-16@2.5	
O/G	570
TEH (Diesel Range)	40yh
TEH (Motor Oil Range)	1,700yh

SCI-20@6.5	
O/G	52
TEH (Diesel Range)	240yh
TEH (Motor Oil Range)	210yh

9AV-B15-3-9.5	
TEH (Diesel Range)	39h

9AV-B13-1-4.0		9AV-B13-2-7.5	
TEH (Diesel Range)	2	TEH (Diesel Range)	81
Benzene	0.006	Ethylbenzene	0.006
Toluene	0.009	Toluene	0.008
Total Xylenes	0.006	Total Xylenes	0.037

9AV-X-3		9AV-X-6		9AV-X-7	
TEH (Diesel Range)	7,100	TEH (Diesel Range)	7,600	TEH (Diesel Range)	26,000
Benzene	0.063	Benzene	0.1	Benzene	0.33
Ethylbenzene	0.3	Ethylbenzene	0.42	Ethylbenzene	1.1
Toluene	0.36	Toluene	0.69	Toluene	1.6
Total Xylenes	1.24	Total Xylenes	1.98	Total Xylenes	4.6

MW-5@5	
TVH (Gasoline Range)	6
TEH (Diesel Range)	180
Benzene	0.020

H-211

PACIFIC LUMBER CO. OIL HOUSE

9TH AVE

DEFREMERY AVE

H-304

H-305

H-306

H-309

FORMER DIESEL UST

FORMER DIESEL UST

FORMER DIESEL PUMP

TRAN

03

Toluene	34
Total Xylenes	48.1

9AV–B1–4	
TRPH	60

9AV–B1–7	
TRPH	110

9AV–X5–1	
TEH (Diesel Range)	1,800
Benzene	0.006
Ethylbenzene	0.007
Total Xylenes	0.018

9AV–X5–2	
TEH (Diesel Range)	280
Benzene	0.018
Toluene	0.006

9AV–X5–6	
TEH (Diesel Range)	440
Benzene	0.010
Toluene	0.006

9AV–X–10	
Benzene	0.033
Toluene	0.010
Total Xylenes	0.007

LEGEND:

- SOIL BORING LOCATION (SCI)
- SOIL BORING LOCATION (BY OTHERS)
- MONITORING WELL LOCATION (SCI)
- MONITORING WELL LOCATION (BY OTHERS)
- TRENCH LOCATION (BY OTHERS)
- FUEL LINE
- WATER LINE
- SANITARY SEWER
- STORM DRAIN
- UNKNOWN DRAINAGE
- OUTFALL
- FLOW DIRECTION
- DRAIN GRATE
- CATCH BASIN
- MANHOLE
- WHARF ACCESS MANHOLE
- FIRE HYDRANT
- FENCE LINE
- RAILROAD
- OVERHEAD LIGHT STANDARD
- APPROXIMATE LEASE BOUNDARY
- STUDY AREA BOUNDARY
- FORMER ABOVE OR UNDERGROUND STORAGE TANK
- EXISTING ABOVE OR UNDERGROUND STORAGE TANK
- A — SITE REFERENCE AREA

SC
TEH (Diese
TEH (Motor O

OTES:

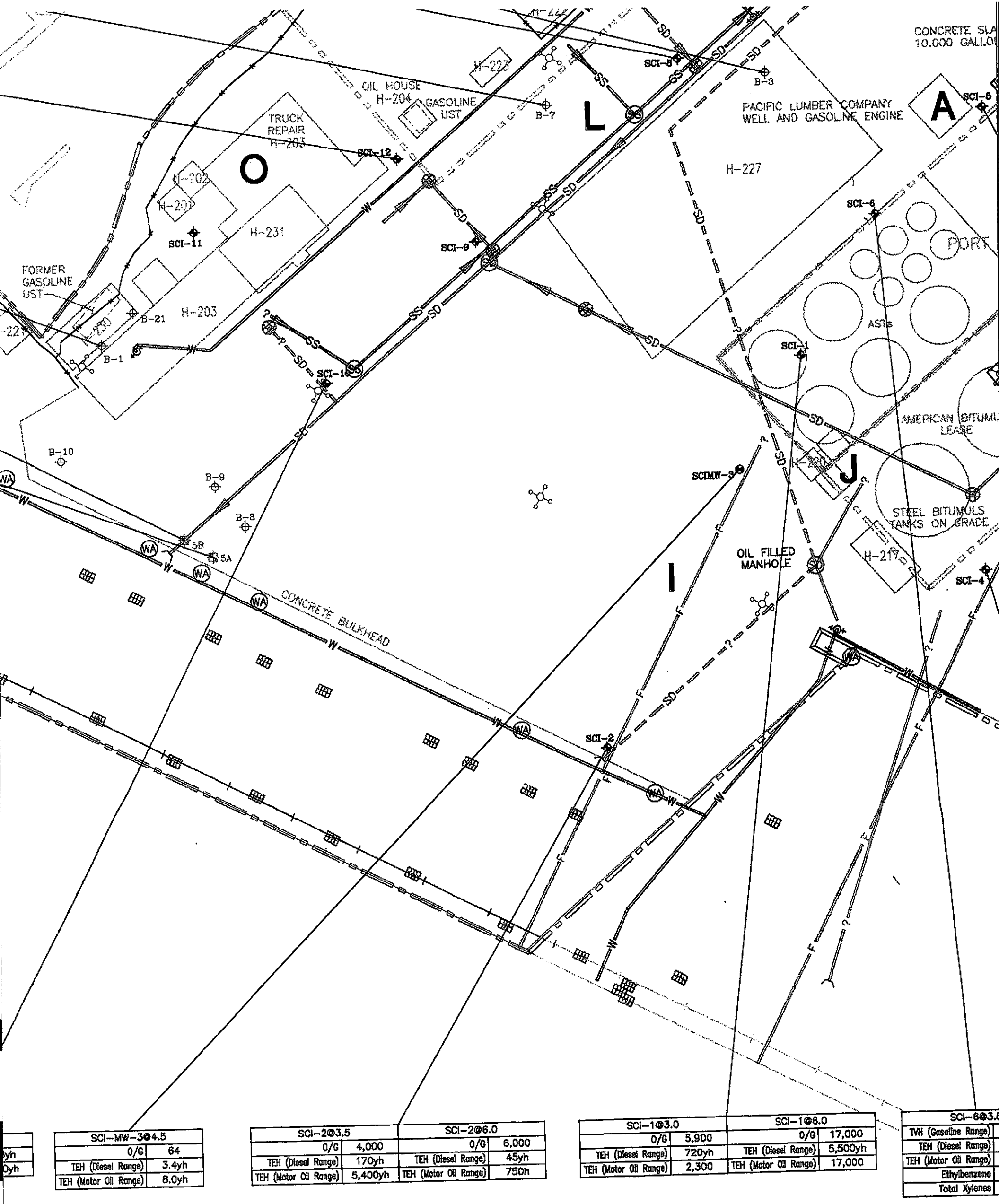
UTILITY SURVEY WAS PREPARED BY AN WEST 5–22–96

ALL CONCENTRATIONS IN mg/Kg

O/G	Oil and Grease
TVH	Total Volatile Hydrocarbons
TEH	Total Extractable Hydrocarbons
TRPH	Total Recoverable Petroleum Hydrocarbons
y	Sample exhibits fuel pattern which does not resemble sta
l	Lighter hydrocarbons than indicated standard
h	Heavier hydrocarbons than indicated

FERENCE DRAWINGS

E MAP BY



SCI–MW–3@4.5	
0/G	64
TEH (Diesel Range)	3.4yh
TEH (Motor Oil Range)	8.0yh

SCI–2@3.5		SCI–2@6.0	
0/G	4,000	0/G	6,000
TEH (Diesel Range)	170yh	TEH (Diesel Range)	45yh
TEH (Motor Oil Range)	5,400yh	TEH (Motor Oil Range)	750h

SCI–1@3.0		SCI–1@6.0	
0/G	5,900	0/G	17,000
TEH (Diesel Range)	720yh	TEH (Diesel Range)	5,500yh
TEH (Motor Oil Range)	2,300	TEH (Motor Oil Range)	17,000

SCI–6@3.5
TVH (Gasoline Range)
TEH (Diesel Range)
TEH (Motor Oil Range)
Ethylbenzene
Total Xylenes

TRANSFORMER

H-308

H-307

10TH AVE

H-318

H-309

SCI-3@6.0	
0/G	570
sel Range)	1,300yhl
Oil Range)	4,900lh

SCI-5@3.5	
TEH (Diesel Range)	47yh
TEH (Motor Oil Range)	71y

SCI-29@5.5	
0/G	52
TEH (Diesel Range)	10yh
TEH (Motor Oil Range)	78yh

9AV-X1-1		9AV-X1-2	
TEH (Diesel Range)	1,000h	TEH (Diesel Range)	890h

9AV-B6-4	
TRPH	640

SCALE

50 0 50 100 FEET

DESIGNED BY	—
DRAWN BY	RDP/DJP
CHECKED BY	JD
APPROVED BY	

[redacted] 3736

Total Xylenes	0.060

9AV–X–4	
TEH (Diesel Range)	9,500
Benzene	0.49
Ethylbenzene	2.2
Toluene	4.5
Total Xylenes	9.6

9AV–X–5	
TEH (Diesel Range)	3,800
Benzene	0.15
Ethylbenzene	0.45
Toluene	0.66
Total Xylenes	1.7

9AV–X–8	
TEH (Diesel Range)	100,000
Benzene	4.8
Ethylbenzene	16
Toluene	42
Total Xylenes	68

H-317

H-50
GAS PUMP
NOT SHOWN 1989

9AV–X1–1	
TEH (Diesel Range)	36,000
Benzene	2.0
Ethylbenzene	4.4
Toluene	3092
Total Xylenes	19.2

9AV–X1–2	
TEH (Diesel Range)	3,800
Benzene	0.78
Ethylbenzene	1.6
Toluene	5.7
Total Xylenes	14.7

9AV–X1–3	
TEH (Diesel Range)	600
Benzene	0.93
Ethylbenzene	3.1
Toluene	8.8
Total Xylenes	26.9

9AV–X1–4	
TEH (Diesel Range)	130,000
Benzene	9.8
Ethylbenzene	30
Toluene	81
Total Xylenes	129

9AV–X1–5	
TEH (Diesel Range)	48,000
Benzene	1.8
Ethylbenzene	4.4
Toluene	14
Total Xylenes	20

SCI–25@6.0	
TVH (Gasoline Range)	24yh
TEH (Diesel Range)	2,400
Ethylbenzene	0.027
Total Xylenes	0.062

MW–6@5	
TVH (Gasoline Range)	240
TEH (Diesel Range)	1,600

H-932

9AV–B16–2–7.0	
TEH (Diesel Range)	92

9AV–B16–3–7.5	
TEH (Diesel Range)	260
Ethylbenzene	0.030
Total Xylenes	0.030

9AV–B16–4–9.5	
TEH (Diesel Range)	49

9AV–X6–1	
TEH (Diesel Range)	50,000
Benzene	0.002
Ethylbenzene	0.0042
Toluene	0.0096
Total Xylenes	0.013

9AV–X6–3	
TEH (Diesel Range)	22,000
Benzene	0.00043
Ethylbenzene	0.00083
Toluene	0.0015
Total Xylenes	0.00219

SCI–23@6.5	
TEH (Diesel Range)	790yh
TEH (Motor Oil Range)	4,800yh

SCI–22@3.5	
TEH (Diesel Range)	1,000h
TEH (Motor Oil Range)	810yh

9AV–B6–7	
TRPH	30

9AV–B17–2–7.0	
TEH (Diesel Range)	20h

9AV–B17–3–9.5	
TEH (Diesel Range)	35h

8/9/96

Diablo Blvd. Ste 200
Lafayette, CA 94549
(510) 299–7960
X (510) 299–7970

PORT OF OAKLAND
530 WATER STREET OAKLAND, CALIFORNIA

DETECTED PETROLEUM HYDROCARBON AND BETX CONCENTRATIONS

SCALE
AS SHOWN

PROJECT NO.
133.005

SHEET NO. | OF