

BASELINE
ENVIRONMENTAL CONSULTING

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16 January 1990
S9-171

Mr. Ariu Levi
Hazardous Materials Specialist
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

**Subject: Site Safety Plan for Remedial Investigation at Seabreeze Yacht Center Inc.,
Oakland, California**

Dear Mr. Levi:

You will find enclosed a revised site safety plan for the remedial investigation under way at the former Seabreeze Yacht Center on Port of Oakland property in Oakland, California. The revision was necessary due to changes in job scheduling and additional hazardous wastes identified during Haz Cat analysis.

Please do not hesitate to call if you have any questions.

Sincerely,



Teresa Anaya
Associate

TA:cr:S90a
Enclosure

SITE SAFETY PLAN

Project No.: S9-171

Field Activities Date: Drum sampling and removal - 1/90;
Soil sampling and removal, pending
BCDC permit - 2/90

Client: Port of Oakland

Address: 77 Jack London Square, Oakland, CA

Contact Person: Michele Heffes

Telephone No.: (415) 839-2656

Job Location: Seabreeze Yacht Center, 280 6th Avenue, Oakland, CA

Project Description: Characterization of subsurface soil contamination, sampling of drum contents, and disposal of drums. Soil and drum sampling will be performed by subcontractors. BASELINE will provide oversight of sampling of soils, drums, and containers. Drum contents will be evaluated using Haz Cat procedure and laboratory analysis. Subcontractors will submit proof of site safety plan and employee training before field activities, but plans will not be evaluated by BASELINE. Contractors will be responsible for safety of their employees.

Project Manager: Teresa Anaya

Site Health & Safety Manager: Irene Kan

Site History: Site has been a boat yard since the early 1900s. Alameda County Hazardous Materials Division sampled soil and found hazardous waste levels of copper and high levels of nickel, tin, and lead. County requested characterization of site, which is owned by Port. Site contains numerous drums that contain liquid material.

Chemical Hazards:

<u>CHEMICAL NAME</u>	<u>DESCRIPTION</u>	<u>HEALTH & SAFETY STANDARDS¹</u>	<u>PERSONS EXPOSED² AND POTENTIAL ROUTES OF EXPOSURE</u>	<u>SYMPTOMS OF ACUTE EXPOSURE</u>
Tri-butyl tin	Organo-tin	NIOSH recommended TWA=0.1 mg/m ³	Dermal (highly toxic), inhalation	Respiratory arrest, irritation
Lead	Inorganic metal, suspected carcinogen	0.05 mg/m ³ - use high efficiency filter with respirator	Inhalation, ingestion	Symptoms occur with chronic exposure
Solvents	Volatile chemical compounds; can be carcinogenic; specific chemicals unknown	Chemical-specific; use organic vapor cartridge with respirator	Inhalation, dermal	Dizziness, headache, disorientation, nausea
Copper	Metal	TLV=1 mg/m ³ ; use high efficiency filter with respirator	Inhalation, dermal, ingestion	Skin and respiratory irritation

(continued)

SITE SAFETY PLAN - continued

<u>CHEMICAL NAME</u>	<u>DESCRIPTION</u>	<u>HEALTH & SAFETY STANDARDS¹</u>	<u>PERSONS EXPOSED² AND POTENTIAL ROUTES OF EXPOSURE</u>	<u>SYMPTOMS OF ACUTE EXPOSURE</u>
Nickel	Metal, carcinogen	TLV=1 mg/m ³ ; use high efficiency filter with respirator	Inhalation, dermal, ingestion	Allergic reaction, skin irritation
Diesel	Flammable liquid	No TLV	Dermal	Minor skin and eye irritation
Oil and grease	Generic	None	Dermal	Skin irritation
Hydrochloric acid	Corrosive	TLV=5 ppm	Inhalation, dermal	Burns to eyes and skin; nose and throat irritation

¹ Standards refer to airborne concentrations to which nearly all workers may be repeatedly exposed daily without harmful effects. The concentrations are time-weighted averages for a normal 8-hour work period.

² Contractor and sampling personnel.

Physical Hazards: Fire and explosion, scrap metal and debris, splashing liquids.

Personal Protective Equipment Required: Tyvek overalls, nitrile gloves, rubber boots, safety glasses, first aid kit, air-purifying respirator with high efficiency filter and organic vapor cartridge (for use during drum, container, and soil sampling), hard hat.

Air Monitoring Strategy (including action levels): Monitor general work area using HNU; contractor should monitor drums during sampling using HNU. At greater than 5 ppm above background, use air-purifying respirator. Monitor general work area using LEL meter. At greater than 0% LEL in general work area, stop work and identify source of combustible vapors. Notify Irene Kan for further instructions. If HNU indicates high concentrations in a drum, let drum contents air out, remonitor with LEL meter and HNU. Do not sample until LEL meter records 0% and HNU measures less than 30 ppm above background. BASELINE should not participate in drum opening or sampling (sample handling is permitted).

Site Control Measures: Store soil cuttings, decontamination rinse water, and contaminated personal protective gear (e.g., Tyveks) in labeled, locked drums. Arrange for disposal of same upon receipt of lab analyses for corresponding samples. Underground Service Alert will be contacted to get clearance before sampling. Site is fenced and gate will be locked during nonworking hours. Public will be restricted from sampling areas. All soil borings will be grouted after samples are collected. Drinking water located at Seabreeze warehouse and cafe. Clean area and contaminated area will be designated. Copy of Site Safety Plan will be sent to subcontractors.

Decontamination Procedures (personal and equipment): Steam clean drilling augers between each boring; decontaminate soil sampling equipment with TSP; rinse equipment with deionized water. Contain rinse waters in temporary basin; store in labeled, locked drum. Store disposable sampling equipment in labeled, locked drum. Place disposable personal protective gear in plastic bag in locked drum at end of each day. Wash boots, respirators, safety glasses with TSP and rinse. Store rinse water in locked drum. Wash hands before leaving site.

SITE SAFETY PLAN - continued

Hospital/Clinic: Peralta Hospital

Phone: (415) 491-4900

Hospital Address: 450 30th Street, Oakland, CA

Paramedic: 911

Fire/Police Dept.: 911

Emergency Procedures: Notify Yane Nordhav or Irene Kan in an emergency: (415) 420-8686.

Prepared by: Irene Kan *Irene Kan*

Reviewed/Approved by:

Date: 1/10/90

Date:

Read by:

Date:

Read by:

Date:

Read by:

Date:

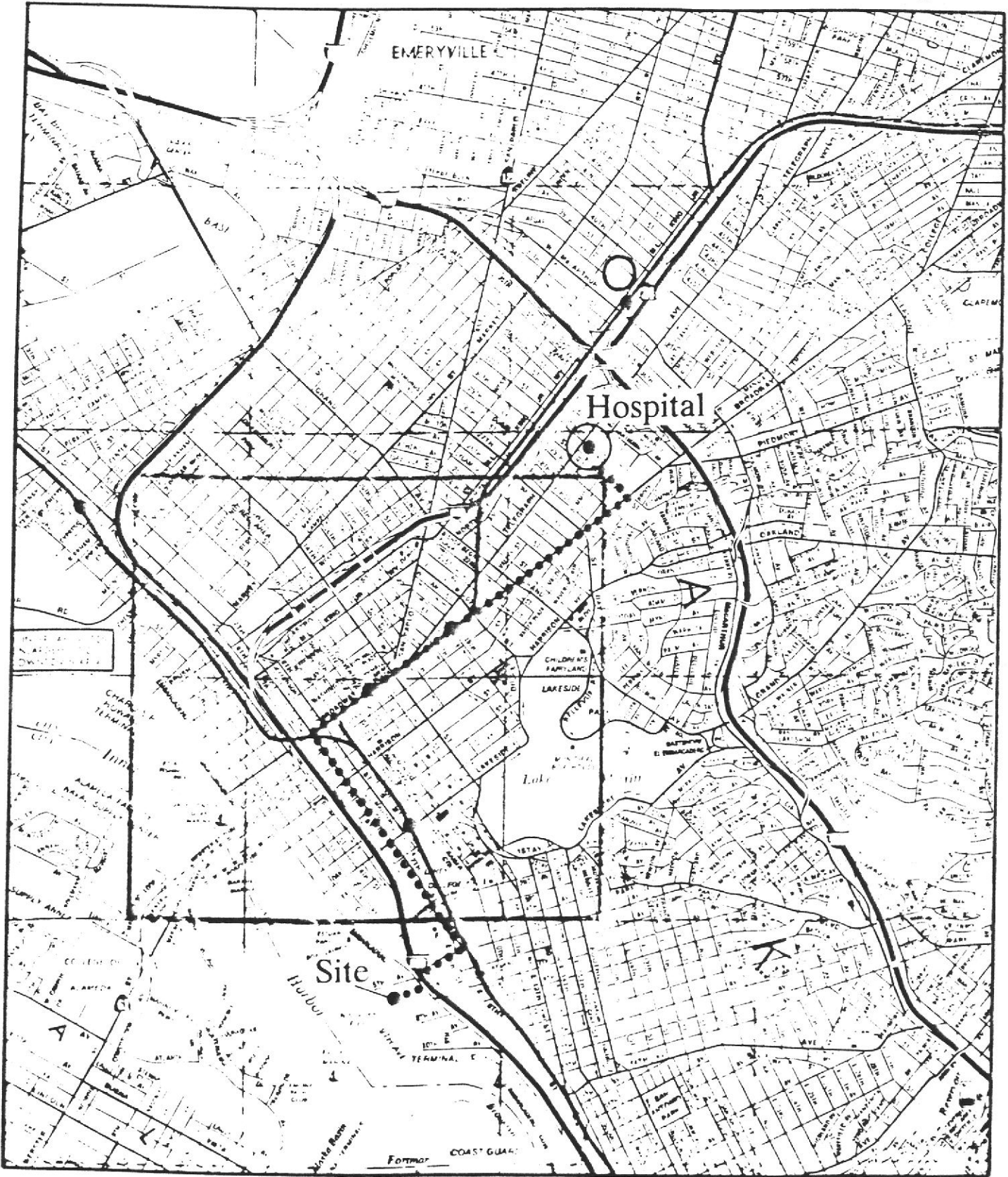
(See page 4 for map to hospital.)

Hospital/Clinic: Peralta Hospital

Telephone No.: (415) 451-4900

Hospital Address: 450 30th Street, Oakland, CA

Directions: Proceed north on 5th, west on 7th, north on Broadway, and west on 39th.



Seabreeze Yacht Center
Oakland, California



BASELINE