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ENVIRONMENTAL CONSULTING SERVICES

March 5, 1993

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

SUBJECT: Site Health and Safety Plan for the Ninth Avenue Terminal Investigation, Port of
Oakland

Dear Mr. Smith:

This is to provide you with a copy of the site health and safety plan for the investigation being conducted in the vicinity of the Port of Oakland's Ninth Avenue Terminal.

If you have any questions regarding the plan, feel free to contact Mr. Andrew Clark-Clough at U&A's Oakland office at (510) 832-2233. Mr. Clark-Clough will become the U&A Project Manager for this investigation starting Monday, March 8, 1993. I have been re-assigned to become U&A's Program Manager at the Department of Energy.

Sincerely,

Ed Kilduff
Associate
URIBE & ASSOCIATES

cc: Jon Amdur, Port of Oakland

SITE SAFETY PLAN
SITE INVESTIGATION AT *KEEP ON TRUCKIN'* AND 9TH AVENUE TERMINAL
PORT OF OAKLAND, CALIFORNIA

A. SITE DESCRIPTION

Date: February-March, 1993

Location: 9th Avenue Terminal, Keep on Truckin', Clinton Basin

Hazards: The overall hazard estimation is low. Hazards include: Excavation, heavy equipment, confined space (sewer), drowning.

Area Affected: Clinton Basin, Keep on Truckin', Ninth Avenue Terminal & Storm sewer system (see workplan figure 2).

Surrounding Population: Industrial / Marina

Topography: Generally Flat

Weather Conditions: Cool foggy mornings, typically warming later in the day. Rain possible. Moderate temperatures, generally heat stress is not a concern.

Additional Information: Work conducted on or under piers should be performed wearing a life vest and a hard hat.

B. PROJECT OBJECTIVES

The objectives of the site investigation are to assess the environmental impact caused by diesel releases to the soils and stormdrain in the vicinity of *Keep on Truckin'*. Fuel lines will be excavated and soil samples will be collected. Soil borings will be drilled around the area as depicted in Figure 2-3 of Workplan. Stormdrain pathways will be investigated and cleaned.

C. ONSITE ORGANIZATION AND COORDINATION - The following personnel are designated to carry out the stated job functions on site.

Project Team Leader:	Ed Kilduff 832-2233
Site Safety Officer:	Alan White
Field Team Leader:	Ed Kilduff
Field Team Members:	Gary Goodemote, Tom Barnes, Ken Koford, John Oppenheim.
Federal Agency Reps:	US Coast Guard
RWQCB Rep:	Ray Balcom

ACHCSA:	Paul Smith
Keep on Truckin' Rep:	Richard Padovani
Client Reps:	Jon Amdur 272-1184
Contractor(s):	Bay Area Tank and Marine, Great Sierra Drilling Rescue Rooter, Subtronics

D. HAZARD EVALUATION

The following substances pose a potential hazard during work activities:

Diesel Skin Irritation, Nausea, Dizziness, Prolonged exposure to fumes can be carcinogenic.

The following physical hazards will be present during site activities:

Confined Space: Oxygen Depletion / Hazard Gas Accumulation
 Open Water Hazards: Drowning
 Heavy Equipment: Physical Injury
 Open Excavations: Entrapment and Physical Injury

The following additional hazards are expected on site: heavy equipment, noise, buried & over head power lines, rainy weather.

E. PERSONAL PROTECTIVE EQUIPMENT

Based on evaluation of potential hazards, the following levels of personal protection have been designated for the applicable work areas or tasks:

Location	Job Function	Level of Protection
Excavation	Inspection	D
Sewers	Inspection	D
Pier	Inspection	D
Drilling	Inspection/Sampling	D

Level D includes: Hard hat, steel toe boots, gloves (latex), safety glasses

Other: Working Life Vest and Level D Equipment

Changes to the specified levels of protection shall be made with the approval of the Site Safety Officer and the Project Team Leader!

F. ONSITE PERSONNEL

Project Team Leader Ed Kilduff: coordinate activities with client and field teams.

Field Team Leader Ed Kilduff: coordinate with client, regulatory agencies and subcontractors, site safety officer.

Field Team Members: Gary Goodemote, Tom Barnes, and Ken Kofford: sewer inspections, sample collection, record keeping.

The on-site personnel will be briefed as to the contents of this plan at kick-off meeting before excavation work begins. All onsite personnel will sign the site safety attendance sheet as provided in Figure A.

G. COMMUNICATION PROCEDURES

Hand gripping throat	Out of air, can't breathe
Grip partner's wrists or both hands around waist	Leave area immediately
Hands on top of head	Need assistance
Thumbs up	OK, I'm all right, I understand
Thumbs down	No, negative

Telephone communication to the Command Post should be established as soon as practicable. The phone number is 832-2233.

H. SITE SAFETY AND HEALTH PLAN

1. Alan White is the designated Site Safety Officer and is directly responsible to the Project Team Leader for safety recommendations on site.

2. Emergency Medical Care

Alan White the U&A Health and Safety Officer can be reached 10 minutes from this location at 2930 Lakeshore Avenue Oakland, phone (510) 832-2233. Local ambulance service is available at phone 911.

First-aid equipment is available on site at the following locations: First-aid kit, Field Team Leader and Field Team Members

Emergency medical information for substances present:

Substance	Exposure Symptoms	First-Aid Instructions
Diesel	Skin Irritation, Nausea, Dizziness	Evacuate to Open Air

List of Emergency phone numbers:

Police	911
Fire	911
Hospital	Highland Hospital, ER 533-3712, 1411 E-31st
Airport	Metropolitan Oakland International Airport, Airport Operator 577-4000
Poison Control	415-666-2845

3. Environmental Monitoring

The following environmental monitoring instruments shall be used on site (cross out if not applicable) at the specified intervals.

Combustible Gas Indicator	Continuous, Action Level @ 10% LEL
O ₂ Monitor	Continuous, Action Level @ less 20% O ₂
HNU/PID	Continuous, Action Level @ 5 ppm in breathing zone

If an action level is met or exceeded, the site shall be evacuated immediately and no person can return to the site until clearance is approved by the Project Team Leader.

4. Emergency Procedures (should be modified as required for incident)

The following standard emergency procedures will be used by onsite personnel. The Site Safety Officer shall be notified of any onsite emergencies and be responsible for ensuring that the appropriate procedures are followed.

Personnel Injury: Upon notification of an injury the designated emergency signal verbal shall be sounded. The Site Safety Officer will call an ambulance. The rescue team will remove the injured person to the hotline. The Site Safety Officer and Project Team Leader should evaluate the nature of the injury, and the affected person should be decontaminated to the extent possible prior to movement to the Support Zone. CPR trained onsite personnel shall initiate the appropriate first aid, and will contact ambulance and with the designated medical facility (if required).

Personnel Injury in the Support Zone: Upon notification of an injury, the Project Team Leader and Site Safety Officer will assess the nature of the injury. If the cause of the injury or loss of the injured person does not affect the performance of site personnel, operations may continue.

Fire/Explosion: Upon notification of a fire or explosion on site, the designated emergency signal verbal shall be sounded. The fire department shall be alerted and all personnel moved to a safe distance from the involved area.

Personal Protective Equipment Failure: If any site worker experiences a failure or alternation of protective equipment that affects the protection factor, that person and his/her buddy shall immediately leave the site. Re-enter shall not be permitted until the equipment has been repaired or replaced.

Other Equipment Failure: If any other equipment on site fails to operate properly, the Project Team Leader and Site Safety Officer shall be notified and then determine the effect of this failure on continuing operations on site. If the failure affects the safety of personnel or prevents completion of the Work Plan Tasks, all personnel shall leave the site until the situation is evaluated and appropriate actions taken.

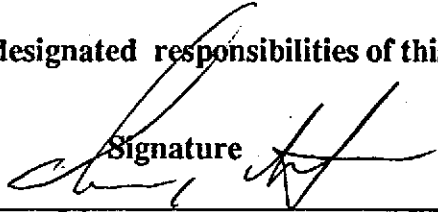
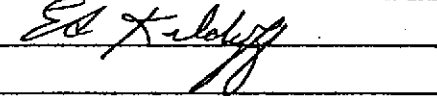
In all situations, when an onsite emergency results in evacuation, personnel shall not re-enter until:

1. The conditions resulting in the emergency have been corrected.
2. The hazards have been reassessed.
3. The Site Safety Plan has been reviewed.
4. Site personnel have been briefed on any changes in the Site Safety Plan.
5. The Project Team Leader has approved reentry.

5. Personal Monitoring

No personal monitoring will be performed during site activities.

The following personnel have read and understand their designated responsibilities of this health and safety plan.

	Name	Signature
Site Safety Officer	<u>Alan White</u>	<u></u>
Project Team Leader	<u>EO KILOFF</u>	<u></u>
Other Site Personnel	<u>SEE FOLLOWING PAGE</u>	<u></u>
Port of Oakland	<u></u>	<u></u>
US Coast Guard	<u></u>	<u></u>
ACHCSA	<u></u>	<u></u>
RWQCB	<u></u>	<u></u>
B Area Tank & Marine	<u></u>	<u></u>

Bay Area Tank & Marine

Vickers Concrete Sawing Anthony Gobb

BAY AREA TANK & MARINE Sam Grijalva

BAY AREA TANK & MARINE Da Mills

" " " " Joe Davis
Tom Richard

Great Sierra Exp

GSE

~~U&A~~

U&A

GSE

Mart

Ken Roland R.G.

John Oppenheim

Sam

(Jim Surlan)

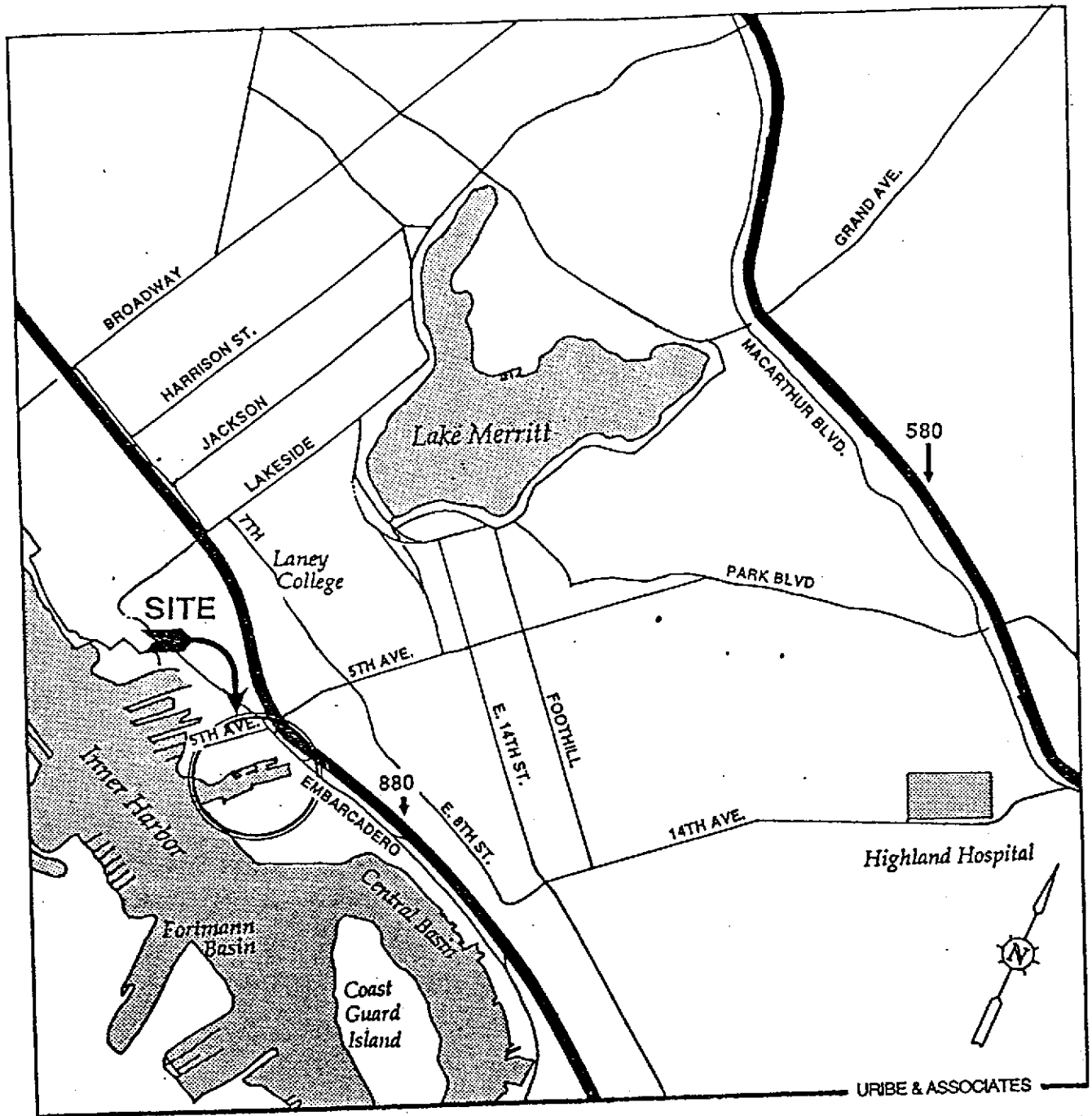


Figure 1: Location Map