

LEVINE-FRICKE, INC.

HSP APPROVAL REQUEST FORM

PROJECT AND SECTION NUMBER 1649.14

OFFICE NAME Emeryville, California

PACKAGE PREPARER NAME AND TITLE Michael Stoll, Project Geotechnical Engineer

CLIENT NAME Catellus Development Corporation

CLIENT ADDRESS 201 Mission Street, San Francisco, CA

CLIENT CONTACT Ms. Kimberly Brandt

START DATE OF PROJECT DURATION OF PROJECT 1 to 2 weeks  
8-9-94

NAME AND TITLE OF PROJECT MANAGER Jenifer Beatty, Project Hydrogeologist

COMMENTS This HSP is designed to address the following tasks scheduled at the Site: UST removal, soil sampling, ground-water sampling, and excavation/backfilling observation.

APPROVED BY (PRINT NAME AND TITLE) SHARI A. SAMUELS

APPROVAL SIGNATURE  DATE 7/14/93  
HEALTH & SAFETY

OTHER APPROVALS IF NEEDED

\_\_\_\_\_  
SIGNATURE TITLE DATE

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SIGNATURE TITLE DATE

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FIGURE 1: HOSPITAL ROUTE MAP TO THE SUMMIT MEDICAL CENTER	

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LF 1649.14

**REMOVAL OF ONE UNDERGROUND STORAGE  
TANK AND ASSOCIATED PIPING FROM THE *Construction site @*  
*40 m / 110 ft in* EMERYVILLE, CALIFORNIA  
HEALTH AND SAFETY PLAN**

**1.0 PURPOSE**

This document defines the Health and Safety considerations for the possible management of hazardous substances by Levine-Fricke personnel and subcontractors. This document is required by Levine-Fricke policies and procedures and may be required by OSHA 29 CFR 1910.120. The basic requirements for the health and safety of the project workers are delineated in the Levine-Fricke Health and Safety Procedures. All personnel on site will be informed about the pertinent sections of the HSP.

**2.0 PROJECT STAFFING**

PROJECT MANAGER	Jenifer Beatty or Ron Goloubow
SITE SAFETY OFFICER	Michael Stoll
EMERGENCY COORDINATOR	Michael Stoll

### 3.0 SCOPE OF WORK

CHECK OFF APPROPRIATE CATEGORIES (MORE THAN ONE MAY APPLY)

X	TANK EXCAVATION	X	SOIL SAMPLING
X	SOIL EXCAVATION	o	ASBESTOS
o	POND CLEANUP	o	ON-SITE STORAGE
o	BUILDING DECONTAMINATION	o	CONSTRUCTION
o	MONITORING WELL INSTALLATION	o	DEMOLITION
o	ON-SITE TREATMENT SOIL	o	VAPOR SAMPLING
X	GROUND-WATER SAMPLING	o	OTHER _____
o	ON-SITE TREATMENT OF GROUND WATER		

Field activities at the Site relate to the removal of one underground storage tank. Levine-Fricke will observe the excavation of the tank. The tank will be removed by a subcontractor to Levine-Fricke using a backhoe. Levine-Fricke personnel will collect soil samples from the excavation limits. In addition, if ground-water is present in the excavation, a grab sample will be collected. Upon completion of sample collection activities, the excavation will be backfilled to grade.

**4.0 HAZARD EVALUATION**

A. **PHYSICAL HAZARDS (TRENCHES, UTILITIES, TERRAIN, ETC.)**  
 The use of heavy equipment at the Site poses potential physical hazards. Excavations pose a hazard for personnel around and entering the excavation.

B. **CHEMICAL CONTAMINANTS AND HIGHEST CONCENTRATIONS DETECTED IN SOIL OR GROUND-WATER AT THE SITE**

NAME OF MATERIAL	CONC. in ppm	TLV/PEL	ACTION LEVEL	MSDS AVAILABLE	HAZARD TO PERSONNEL
Oil and Grease					

CARCINOGENS?  
 YES  NO

IF YES, LIST --

**4.1 Task Specific Hazards**

TASK Soil Sampling, UST and Soil Excavation Observation

1. Noise and other hazards associated with the operation of heavy equipment.
2. Workers will not enter unsupported/non-sloped excavations deeper than 4 feet. All requirements pursuant to 29 CFR 1926.651 and 652, Excavations, Trenching and Shoring, shall be observed.

TASK Ground-Water Sampling

1. Workers will not enter unsupported/non-sloped excavations deeper than 4 feet. All requirements pursuant to 29 CFR 1926.651 and 652, Excavations, Trenching and Shoring, shall be observed.

**5.0 PROJECT MANAGEMENT**

**CREW SIZE**

PROJECT MANAGER	Jenifer Beatty
CHEMIST	Doug Lipton
SITE SAFETY OFFICER	Michael Stoll and/or Shellie Fletcher

**5.1 Subcontractors**

Excavation contractors (*Mountaincreek* General Contractors of San Jose, California) with 40 hour OSHA training will complete the scheduled tasks.

**6.0 MATERIAL HANDLING EQUIPMENT**

(PROVIDE DETAILS, E.G., QUANTITIES AND TYPES)

_____	<input type="radio"/>	DRUM DOLLY	_____
_____	<input type="radio"/>	PUMPS	_____
_____	<input type="radio"/>	FORK TRUCK	_____
_____	<input type="radio"/>	MAN LIFT	_____
<u>  2  </u>	<input checked="" type="checkbox"/>	HEAVY EQUIP.	backhoe/excavator to remove UST/soil and soil, compactor to compact the backfill soils
_____	<input type="radio"/>	CRANE	_____
<u>  1  </u>	<input checked="" type="checkbox"/>	VACUUM TANKER	Licensed hauler for UST contents
_____	<input type="radio"/>	AIR COMPRESSOR	_____

**7.0 REPORTING AND RECORDKEEPING**

**7.1 General**

Recordkeeping shall be consistent with OSHA regulations in all respects. The following records will be maintained in the Corporate Health and Safety Director's Office, the local Levine-Fricke Office and/or at the site:

- The Health and Safety Log--The log documents the Site Safety officer's daily activities pertaining to site health and safety compliance.
- OSHA 200 Log and Summary of Occupational Injuries and Illnesses--Current within 72 hours. Will be maintained in the appropriate local office and Health and Safety Director's office.
- Respirator Fit Test Records
- Training and Medical Certificates
- Tailgate Safety Meeting Records



8.0 ENVIRONMENTAL SAMPLING

SAMPLING REQUIRED      X YES      o NO

SOIL SAMPLING

EQUIPMENT USED      A mallet will be used to drive brass tubes into the soil.

WATER/LIQUID SAMPLING

EQUIPMENT USED      A disposable sampling bailer will be used to collect the ground-water sample (if required) from the excavation.

9.0 TRAINING

LEVINE•FRICKE CREW RECEIVED INITIAL 40-HOUR TRAINING

X YES o NO

IF NO, WHY? \_\_\_\_\_

SUBCONTRACTOR RECEIVED REQUIRED TRAINING

X YES o NO      *mountain cascade* contractors have received the required training

IF NO, WHY? \_\_\_\_\_

SAFETY BRIEFINGS ARE HELD EACH SHIFT

WHO CONDUCTS MEETING?      The Levine•Fricke SSO

WHERE ARE RECORDS STORED?      Levine•Fricke project files

**10.0 MEDICAL REQUIREMENTS**

ENTIRE CREW RECEIVED BASELINE PHYSICAL EXAMINATIONS

X YES  NO

IF NO, WHY? \_\_\_\_\_

\_\_\_\_\_  
SPECIAL TESTS REQUIRED None

**11.0 CONTAMINATION CONTROL**

- The job site is partitioned into three distinct zones: clean zone, contamination reduction zone, and exclusion zone.
- Workers may only enter and exit from the exclusion zone via the contamination reduction zone.
- Only authorized personnel are allowed to enter the exclusion or the contamination reduction zone.
- Section 16 includes a site map defining the zones.
- Section 17 describes the personnel and equipment decontamination procedures.

**12.0 WORKER PROTECTION**

**12.1 Personal Protective Equipment**

1. WORK TASK DESCRIPTION soil and ground-water sampling, UST and soil excavation observation
2. LEVEL     A     B     C     D
3. RESPIRATORY PROTECTION No
4. PROTECTIVE CLOTHING

X HARD HAT

EYE PROTECTION

- X SAFETY GLASSES WITH SIDE SHIELDS  
 CHEMICAL RESISTANT GOGGLES  
 FACE SHIELD  
 OTHER \_\_\_\_\_

BODY PROTECTION Not Applicable

GLOVES -when sampling

- |   |                               |
|---|-------------------------------|
| <input type="radio"/> LATEX             | <input type="radio"/> LEATHER |
| <input type="radio"/> SURGICAL RUBBER   | <input type="radio"/> COTTON  |
| <input type="radio"/> VITON             | <input type="radio"/> OTHER   |
| X PVC                                   | _____                         |
| <input type="radio"/> NEOPRENE          |                               |
| <input type="radio"/> NEOPRENE (MILLED) |                               |
| <input type="radio"/> SILVERSHIELD      |                               |

BOOTS

- X LEATHER - STEEL TOED  
 PVC - STEEL TOED  
 NEOPRENE - STEEL TOED  
 PVC BOOTIES  
 TYVEK BOOTIES  
 OTHER \_\_\_\_\_

HEARING PROTECTION

- EAR MUFFS  
X EAR PLUGS  
 OTHER \_\_\_\_\_

## 12.2 General Safety Equipment

- SAFETY SHOWER
  - EYEWASH
  - X BARRIERS
  - WARNING SIGNS
  - X BARRIER TAPE
  - WATER/GATORADE
  - DECON BARRELS
  - LIGHTING
  - LIFELINE/HARNESS
  - EXTRACTION DEVICE
  - AIR HORNS
- 

X FIRE EXTINGUISHERS --to be supplied by the contractor and Levine•Fricke.

COMMUNICATION SYSTEMS-- Mobile cellular telephone on site for emergency use and pagers for Levine•Fricke personnel

SANITARY FACILITIES --Potable water will be brought to the site by Levine•Fricke personnel. Toilets are available at nearby Levine•Fricke sites or at the Levine•Fricke maintenance facility.

13.0 PERSONNEL MONITORING PLAN

AIR MONITORING REQUIRED  Yes  NO

EXPLAIN STRATEGY Air monitoring is not required, however a Photoionization detector will be used to monitor volatile organic chemical concentrations in the breathing zone. If ambient air concentrations of VOCs in the breathing zone reach 25 parts per million (ppm) or greater, personnel shall upgrade to Level C using half-face air-purifying respirators equipped with NIOSH-approved high efficiency particulate/organic vapor combination cartridges.

SAMPLING EQUIPMENT

- COMBUSTIBLE GAS/OXYGEN METER
- DRAEGER TUBES
- PHOTOIONIZATION DETECTOR
- FLAME IONIZATION DETECTOR
- INFRARED DETECTOR
- AEROSOL MONITOR
- SAMPLING PUMPS
- AND MEDIA \_\_\_\_\_

OTHER \_\_\_\_\_

HEAT STRESS MONITORING  YES  NO

NAMES OF MONITORING TECHNICIANS

Michael Stoll and/or Shellie Fletcher

LOCATION OF MONITORING RECORDS Levine-Fricke project files

#### **14.0 SITE SAFETY OFFICER RESPONSIBILITIES**

The Site Safety Officer (SSO) or Designee will enter before any work begins and will verify that the established zones are identified and escape routes are clear.

The daily site entry procedure will include the following:

- Determine the wind direction and stay appraised of it throughout the stay. Identify the direction during the tailgate safety meeting or informally with each affected employee.
- Confirm the proper placement of emergency information and operational status of equipment and the decontamination facility.
- Monitor the air as necessary for conditions that may cause injury or exposure and record all data.
- Visually observe for signs of actual or potential life- or health-threatening hazards.
- Note physical conditions of the site. Determine potential exposure pathways.
- Use survey tape or markers to identify new boundaries of the zones.
- Document site activities in a daily log. Record observations related to field conditions and the site.

## 15.0 GENERAL SAFE WORK PRACTICES

- All accidents and incidents must be reported to the supervisor immediately.
- All defects/malfunctions which appear during the course of the work shift must be reported to the supervisor.
- No eating, drinking, smoking, chewing tobacco or gum is allowed in the exclusion or contamination reduction zones.
- Employees shall inform their supervisors of any prescription medications they are using while at work that can affect their abilities.
- Employees shall not show up for work under the influence or in possession of alcohol or illicit drugs.
- Only Levine-Fricke-approved personal protective equipment shall be used by Levine-Fricke employees.
- Employees shall not remove or disturb any covering, guards, or safety devices placed on vehicles, gears, or other moving equipment or machinery, except to perform maintenance or repairs. Work on the equipment shall not commence until the equipment has been deactivated, sources of energy are removed, and controls are locked and tagged out.
- Before starting any vehicle or machinery, or turning on electricity, gas, steam, or air, employees will check the entire area to ensure that it is safe to proceed with the work. Out of service or locked out equipment is not to be started by anyone unless authorized by a supervisor.
- Employees shall maintain good housekeeping of the facilities and remove or dispose of all unnecessary materials.
- Special operations, including confined space entry, hot work, and decommissioning of equipment for repairs, require permits to be signed by authorized personnel. A description of the procedures will be included as an appendix.

- Trenching or excavations must be shored or sloped or appropriately prepared as required by OSHA standards. A description of the techniques to be used is included as an appendix, if appropriate.



**16.0 WORK ZONE MAP**

(Can be completed on site during the first working day.)

## 17.0 DECONTAMINATION PROCEDURES

PERSONNEL DECONTAMINATION PROCEDURES-- Disposable gloves, sampling equipment and other disposable clothing or equipment worn by Levine-Fricke personnel will be placed in a suitable disposal container on site at the end of each work day. Protective clothing will be replaced if its protective function is compromised through holes or tears.

EQUIPMENT DECONTAMINATION PROCEDURES-- Equipment that comes in contact with on-site soils or ground-water that apparently contain chemicals identified at the site will be brushed off before removal from the site area.

LAUNDERING PROCEDURE FOR WORK CLOTHES-- Wash separately.

## 18.0 LEVINE-FRICKE INTERNAL CALL LIST

IN THE EVENT OF INJURY, FIRE, EXPLOSION, SPILL, RELEASE, OR OTHER NONROUTINE EVENTS, IMMEDIATELY CONTACT ONE OF THE FOLLOWING PEOPLE, IN THIS ORDER:

1. *Jane Dorkarby* (510) 652-4500
2. (510) 652-4500
3. Michael Stoll (510) 652-4500
4. Jenifer Beatty (510) 652-4500

## 19.0 HAZARDOUS WASTE OPERATIONS CONTINGENCY PLAN

GENERATOR'S NAME: Catellus Development Corporation

OWNER'S NAME:

*Same*

WORK LOCATION:

*Construction site 40th @ Hollis in Emeryville CA*

CONTACT: Ms. Kimberly Brandt  
(Catellus)

PHONE #(415) 974-4500

LEVINE-FRICKE PROJECT MANAGER: Jenifer Beatty or Ron Golubow

### 19.1 General Injury

- Step 1: Use first-aid kit on site, if appropriate.
- Step 2: Use off-site medical help and/or assistance if appropriate.
- Step 3: Notify SSO, On-Site Project Manager, and Health and Safety Director.

### 19.2 Specific Treatments

- Eye Exposure: Flush eye with eye wash, contact ambulance.
- Skin Exposure: Wash immediately with soap and water; contact ambulance, if appropriate.
- Fire (localized): Use fire extinguisher and activate alarm system, if appropriate.
- Fire (uncontrolled): Call Fire Department.
- Chemical Spill: Contact Fire Department and National Response Center for Toxic Chemical and Oil Spills.
- Explosion: Contact Fire Department if potential for additional explosions or fire danger exists.
- Inhalation: Move person to clean air and cover source of chemicals, if possible.
- Swallowing: Contact ambulance service.

**EMERGENCY PHONE NUMBERS:**

- POLICE 911
- FIRE 911

**Hazardous Materials Release Response/Reporting**

- National Response Center 1-800-424-8802
- California Office of Emergency Services 1-800-852-7550

**Toxics Information**

- CHEMTREK 1-800-424-6699
- Poison Control Center 1-415-476-6600
- AMBULANCE 911
- HOSPITAL

Emergency Room 1-510-204-1303  
Alta Bates Hospital  
2450 Ashby Avenue  
Berkeley, California

See attached map for route to hospital.

**20.0 CONTRACTOR AND SUBCONTRACTOR AGREEMENTS**

**Contractor and Subcontractor Agreements:**

1. Contractor certifies that the following personnel to be employed on the Site adjacent to 3819 San Pablo Avenue, Emeryville have met the Hazards and Protection requirements of the OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120) and other applicable standards.
2. Contractor certifies that, in addition to meeting the OSHA requirements, she/he has received a copy of this HSP and will insure that the employees and subcontractors of the Contractor are informed, and will comply with both OSHA requirements and the guidelines in this HSP.
3. Contractor further certifies that she/he has read, understands, and will comply with all provisions of this HSP and will not hold Levine-Fricke responsible or liable for any injury or health problems that may occur.

Contractor Personnel	Training/ Certification/ Medical Examination	Signature	Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____



MAP SOURCE:  
 Thomas Bros. Map  
 Alameda and Contra Costa Counties  
 1992 EDITION

Figure 1: SITE LOCATION MAP



**ALTA BATES  
HOSPITAL**  
2450 ASHBY AVE.  
BERKELEY, CA  
(510) 204-1303

**SITE**

**DIRECTIONS**

From site go southwest on Peralta Street to MacArthur Blvd. Turn right on MacArthur Blvd. Turn right on Hollis Street. Turn right on Yerba Buena. Turn left on San Pablo. Turn right on Ashby. Alta Bates Hospital is located at 2450 Ashby Ave.

Figure 2 : HOSPITAL ROUTE MAP