SITE SAFETY PLAN FOR UNDERGROUND STORAGE TANK REMOVAL/CLOSURE

JOBSITE ADDRESS: 3600 Mac Arthur Avenue., Oakland

JOB NUMBER:

91-0416

PREPARED BY: MILTON TIFFIN, ESTIMATOR

JAMES C. BATEMAN PETROLEUM SERVICES, INC. dba SEMCO

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INTRODUCTION

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SEMCO has adopted the following Health & Safety Plan and procedures for the removal and/or closure of underground petroleum storage tanks and associated piping. The purpose of this plan is to provide health and safety guidelines to be adhered to while all work is in progress.

All personnel involved with the tank removal or associated activities will have an assigned responsibility. The outlined responsibilities will establish standards for personnel protective wear and safety procedures, and will provide for emergency actions which could arise during project operations.

HISTORY & SCOPE OF WORK

- 1.0 History & Scope of Work:
- 1.1 History:
- 1.2 Scope of Work:

The tanks will be purged of all remaining residues, and these residues will be stored on site in 55 gallon D.O.T. approved drums until they are hauled away for disposal by a certified hazardous materials hauler.

The tanks will be inerted with a minimum of 15 lbs of dry ice per 1,000 gallons of tank capacity. More ice will be added if necessary to displace the oxygen in the tank to a concentration level below the OSHA approved lower explosive limit. When this level is obtained the tanks will be removed, and samples will be collected per the approved work plan.

- 1.3 Responsibilities of Other Agencies Present:
 - a. The Environmental Health Department is responsible for approval and inspection of procedures, including tank removal, sample procurement and integrity of work plan.
 - b. The Fire Department is responsible for inspection relative to safe procedures and condition of tank prior to removal.

- 2.0 Hazards, Special Precautions:
 - 2.1 Special Precautions:
 During the course of underground storage tank removal,
 workers could be exposed to petroleum hydrocarbon
 vapors, liquids, or other wastes. The following
 precautions will be observed by all individuals engaged
 in the tank removal activity.
 - 2.1.1 Toxicity Considerations, Petroleum Substances:
 All individuals should be aware of appropriate health precautions. When high concentrations of petroleum hydrocarbon vapors are inhaled, symptoms of intoxication may result. These symptoms, range from simple dizziness to unconsciousness. Care will be exercised to minimize exposure to these substances when they are present. Avoid skin contact with petroleum substances whenever possible. Use soap and water to remove any petroleum product that contacts skin.
 - 2.1.2 Flammability and Combustibility Consideration:

 Flammable and combustible vapors are likely to be

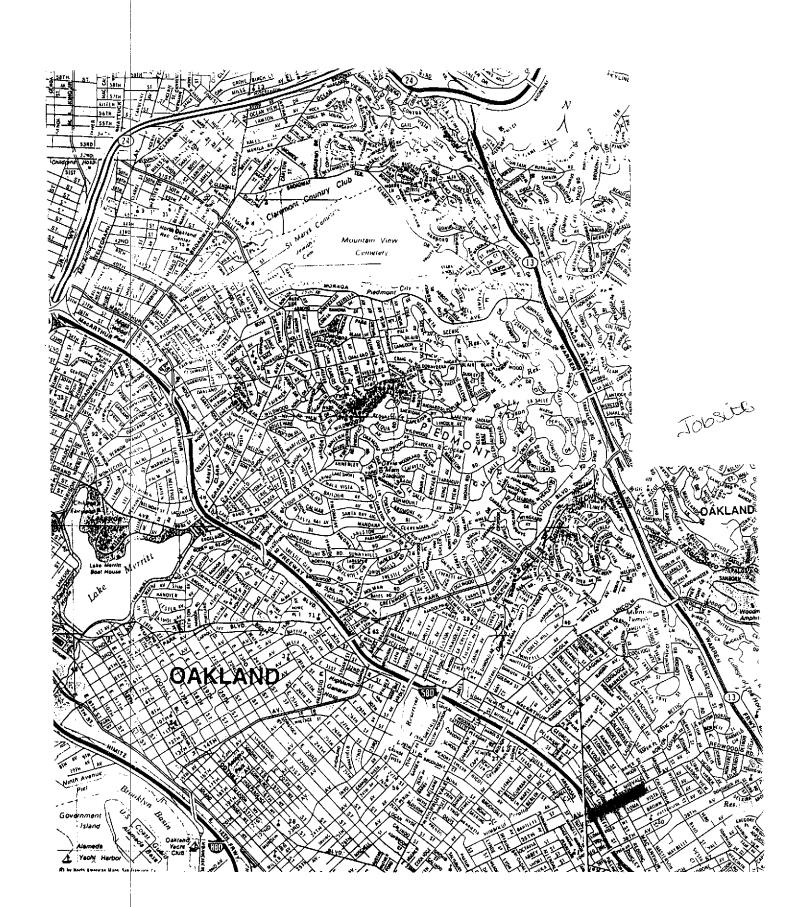
 present in the work area. Precautions will be taken to

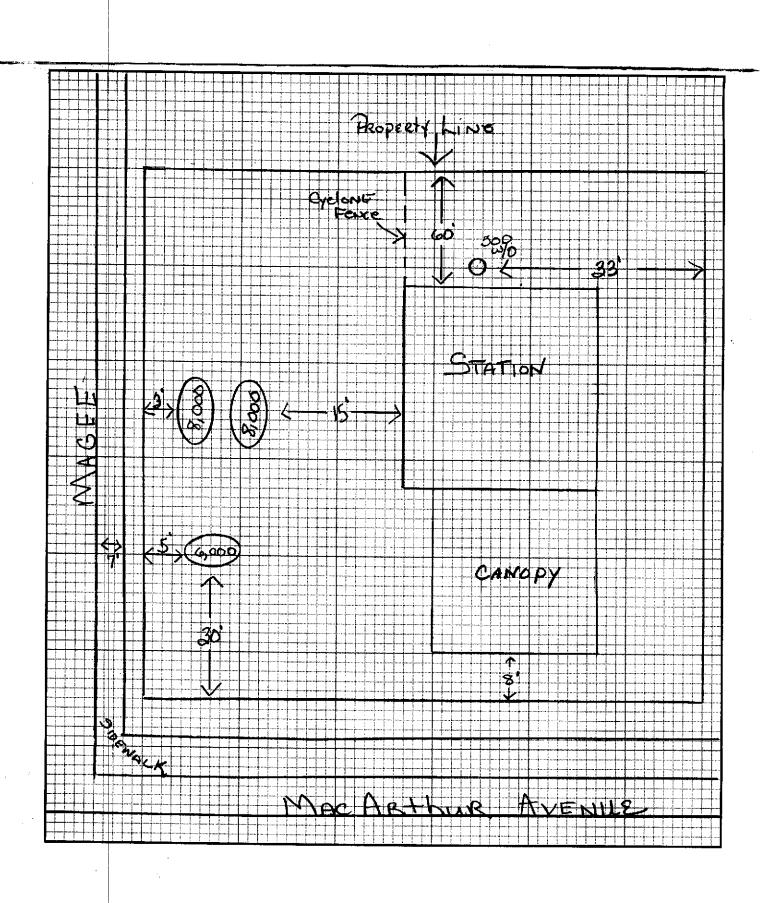
 eliminate all potential sources of ignition, to prevent

 the discharge of static electricity during venting, and

 to prevent the accumulation of vapors.
 - 2.1.3 Physical Considerations:
 During the excavation of underground storage tanks, some physical hazards can be present, in the form of large holes, exposed piping, debris piles, and excavation equipment. All workers will be aware of these hazards and take all necessary actions to eliminate accidents, when left unattended the excavated area will be appropriately marked and barricaded at all times.

2.0 Jobsite Vicinity Map





PERSONNEL

4.0 Personnel:

- 4.1 Project Manager
 - -Manages field operations.
 - -Ensures the Work Plan is completed on schedule.
 - -Briefs the field teams on their specific assignments.
 - -Participates in the preparation of the Site Safety Plan.
 - -Serves as a liaison with public officials.
- 4.2 Site Safety Officer
 - -Implements and enforces the SSP.
 - -Assures that all on-site personnel have received a copy of the SSP, have read it and understand it.
 - -Conducts frequent inspections of site conditions, facilities, equipment, and activities to determine if the SSP is adequate and being followed.
 - -Conducts daily "tailgate" meetings to explain the plan of work for the day, mention potential hazards of the site.
 - -Ensures that protective clothing and equipment are properly stored and maintained.
 - -Knows emergency procedures, excavation routes, and notifies local emergency services when necessary.
 - -Notifies the Health and Safety Manager of all accidents and injuries that occur on site.
- 4.3 On-Site Personnel:
 - -Are required to document their full understanding of the SSP before starting work by signing that they have read the SSP and understand it.
 - -Complies with the SSP,

PERSONNEL--Continued

-Notifies the SSO of unsafe conditions.
-On-site employees are held responsible to perform only those tasks for which they believe they are qualified and in their opinion are safe.

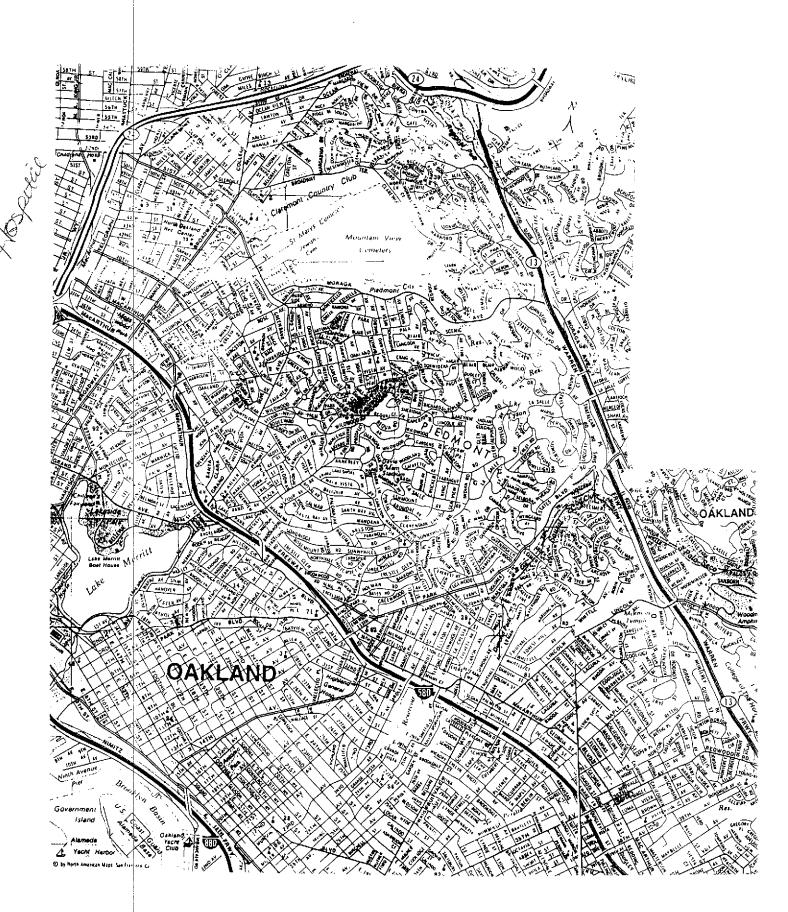
- LEVEL D: Safety Glasses Steel Toe Shoes
 Hard Hats
 Uniform shirt/pants
- LEVEL C: Safety Glasses or Goggles w/side Shields
 Hard Hats
 Steel Toe Safety Shoes
 Half of Full Face Respirator with Organic
 Vapor Cartridges
 Tyvek or Poly-Coated Tyvek

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EMERGENCY SERVICES

- 5.0 Emergency Services
- 5.1 Persons to contact in case of emergency:
 - a. PROJECT MANAGER Name: Chuck Kiper Phone:(415) 572-8033
 - CLIENT CONTACT
 Name: Henry Hall
 Phone: (415) 533-2249 (B) (415) 532-9499
 - c. SITE CONTACT Name: Chuck Kiper Phone: (415) 572-8033
 - d. SITE SAFETY OFFICER
 Name: Chuck Kiper
 Phone:(415) 572-8033
 - ALTERNATE SITE SAFETY OFFICER
 Name: Terry Hamilton
 Phone: (209) 524-9653
 - HEALTH & SAFETY COORDINATOR
 Name: Milton Tiffin
 Phone: (209) 524-9653
- 5.2 Hospitals In Area: Kaiser Hospital Phone: (408) 596-1000
- 5.3 Emergency Routes See Hospital Route Map, Page 11
- 5.4 Ambulance Service: Acme Ambulance (415) 653-6622
- 5.5 dire Prevention:
 Alameda County Environmental Health Department.
- 5.6 fire Department: DIAL 911
- 5.7 A First Aid Kit will be on site:
- 5.8 Barricades:

 Job site will be barricaded off and construction tape will be used around working area, when work area is left unattended.
- 5.9 Fire Extinguishers will be present on site:



CONTINGENCY PLAN

7.0 Contingency Plan:

- If an injury occurs, the following action will be taken:
 - -Medical attention for the injured person immediately.
 - -Notify the Site Safety Officer.
 - -Depending on the type and severity of the injury, the occupational physician will be notified.
 - -The injured person's personnel office will be notified.
 - -An incident report will be prepared. The Site Safety Officer will be responsible for its preparation and submittal to the Health and Safety Direction and corporate personnel office within 24 hours.
 - -The Site Safety Officer will assume charge during a medical emergency.
 - -EMERGENCY ROUTES--see Hospital Route Map, Page 11

SAFETY EQUIPMENT

- 8.0 Safety Equipment:
- 8.1 As a minimum, the following equipment will be on site:

LEL meter OSHA-Approved First Aid Kit

40BC Fire Extinguisher Half Face Respirator with Organic Vapor Cartridges

9.0 Si	gnatures &	Acknowled	gments:				
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