

SITE WORK HEALTH AND SAFETY PLAN
CHEVRON TANK AND EQUIPMENT REMOVAL

PREPARED FOR
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
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CHEVRON TANK

EMERGENCY TELEPHONE NUMBERS

Fire 911
First Aid 911
Ambulance 911
Police 911
Poison Control Center..... (408) 299-5111

Hospital

Valley Memorial Hospital
1111 East Stanley Blvd.
Livermore, CA 94550.....(415) 447-7000

AlamedaCounty EHD.....(415) 271-4320

Alameda County Fire Patrol
Livermore.....(415) 551-6868

Golden West Builders
D. Bailey Neff.....(415) 634-1998
Rick Henderson(415) 634-1998

Nearest Available Telephone at Site

PREFACE

This Site Work Health and Safety Plan has been prepared for Chevron Tank and Equipment Removal.

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1. GENERAL

This Health and Safety Plan has been designed to conform to and/or exceed guidance standards promulgated by EPA and the California Department of Health Services, Federal OSHA regulations (29CFR1910.120) and Cal/OSHA regulations. Because considerable experienced judgement must be applied to decisions that will be made while actually working on site, it is the goal of this plan to provide maximum work efficiency while maintaining an uncompromisingly safe working environment. This plan is not a substitute for experienced judgement and direction, or for common sense during the implementation of the tank and equipment removal effort or the safety procedures outlined herein.

Golden West will provide services and equipment for the tank and equipment removal work. Golden West (as well as all subcontractors and independent contractors) will adhere to the Site Work Health and Safety Plan.

2. SITE/WORK DESCRIPTION

The subject property is located at 1-580 and South Grant Line Road, Livermore, California. The site address is 10 South Grant Line Rd. A site location map is provided in Figure 1 - 1.

Five buried tanks and contaminated soil, (if any), will be excavated from the site.

3. WORK OBJECTIVE

The overall work objective is to provide for proper and safe removal of any residual product stock, removal of underground storage tank(s) and contaminated soil (if any) to achieve proper site closure in accordance with existing local and state regulations. To achieve these objectives, the following subordinate objectives must be accomplished:

- o Monitor tank interiors for flammable or explosive concentrations.
- o Provide for safe removal of flammable or combustible vapors from tanks.

- o Provide for safe tank removal.

- o Provide for safe and proper tank disposal.

14. SAFETY MANAGEMENT

The field supervisor will ensure that all personnel comply with all applicable regulations and requirements of this plan. Due to the various aspects of the work specific personnel are not assigned to this project at present. Basic requirements are:

1. Personnel shall be physically able (and mentally willing) to comply with safety requirements.

2. A copy of this safety plan shall be posted at the job site, and a copy made available to each individual who will work at the site.

3. These plans should also include and/or address as a separate plan, the following:
 - a. A Worker Hazard Communication Program.

4. Periodically scheduled "tailgate safety" meetings shall be held to review the safety program. Attendees will sign the Safety Meeting notice.
5. Unsafe acts shall be stopped when discovered.
6. Required safety equipment shall be present on site and shall be checked to verify completeness and function prior to being put into service.
7. Sources of ignition will be eliminated where possible. Smoking will be strictly forbidden on site.
8. The field supervisor is Harold Speelman. Personnel may change depending on field conditions. Changes will be noted in the field log book.

5. HAZARDS

Identified Hazards

- o Hazards associated with general construction may occur during the course of remediation. Personnel should be alert and prevent as well as avoid these hazards.

- o During tank removal, there is a significant potential for hazards from falling loads when lifting and removing tanks. Workers must be especially alert to this hazard.

- o During general construction activities, there is also a potential for general (construction type) safety hazards. This plan does not address general safety in detail. If personnel are frequently reminded and will cooperate in being courteous, careful, alert, and thoughtful of outlined safety procedures, and, if they use common sense in actions and in considering probable consequences, much will already have been accomplished to insure a safe working environment.

- o Fires may occur from sources of ignition

- o Contamination exposure is negligible on this project. Activities will cease and proper notification made if contamination is found.

- o No noise or electrical hazards are known to exist at the present time.

6. EXCLUDED WORK ZONE

The boundary of the site shall be an excluded work zone. Personnel not actively involved in site work activities (other than inspectors from concerned regulatory agencies) shall not be allowed within the excluded work zone.

7. HAZARD COMMUNICATION

All personnel are to be familiar with this Site Work Health and Safety Plan.

Field supervisor will telephone for emergency service and notify office when needed.

8. ON-SITE WORK PLAN

Removal of Flammable Vapors and Removal of Tanks

Removal of flammable vapors and removal of tanks will be performed in accordance with the requirements of the Alameda County Fire Patrol and Alameda County EHD. The following are general guide lines.

A review of available codes, standards, and recommended procedures produces the following consensus:

1. All possible sources of ignition must be kept from impacting the tank or the area in which flammable vapors may reside during excavation or after removal.
2. Drain and flush all piping into the tank. Flammable or combustible free standing liquid production stock will be removed from the tank prior to removal. Avoid spilling product on the ground during disconnection of the tank from its associated lines.
3. Vent lines should not be sealed and should be cut last. Keep all sources of ignition away from vent lines as well as tanks.
4. Once all liquid has been removed from the tank, any tank with flammable vapors in excess of 5 percent of the LEL will be purged with dry ice (CO₂). Twenty pounds of dry ice per 1,000 gallons of tank capacity is added to render the tank inert. All piping except the vent pipe should be disconnected.

Note: Tanks to be pulled when LEL and Oxygen are less than 10% each per Alameda County EHD.

Emergency Services

The address and telephone number of the local hospital, ambulance and medical emergency room should be prominently posted. In addition, the telephone number of a fire department/rescue unit should be posted.

General information regarding emergency services may be found on page 2.

Emergency Equipment

The following emergency equipment will be available:

- o A 20-unit first aid kit.

- o ABC fire extinguishers(2).

9. DECONTAMINATION

The requirement for decontamination is anticipated to be negligible.

Pre moistened tissues will be available.

10. SAFETY TRAINING REQUIREMENTS

The minimum training requirements specified in Federal OSHA 1910.120 Hazardous Waste Operations and Emergency Response will be met for all remediation personnel. (If required)

11. EQUIPMENT

Personal Safety Equipment

Workers engaged in the remediation work shall wear/have available personal protective safety equipment as minimum:

- o Hard hats.
- o Safety glasses and/or goggles.
- o Respirators.
- o Coveralls
- o Boots
- o Gloves

Facility Safety Equipment

The following safety equipment shall be continuously available at the job site:

- o First aid kit (20-unit).
- o Fire extinguishers(2) ABC
- o "No Smoking" signs
- o Barricade tape.
- o Explosimeter (LEL)/Organic Vapor Analyzer

12. PERSONAL HEALTH AND HYGIENE

- o Personal safety and the safety of fellow workers require mental alertness on the part of all employees. No alcohol or drugs shall be permitted at any job site. Intake of alcohol and prescription drugs should be limited when an employee is assigned to hazardous material remediation projects, due to the potential for synergistic effects. Prescription drugs should not be taken without the express approval of a physician with knowledge of project/site activities.
- o Eating and smoking will only take place in an approved break area.