

SITE SAFETY AND HEALTH PLAN

**UNDERGROUND STORAGE TANK REMOVAL
4028 EAST 14TH STREET., OAKLAND, CA**

SUBMITTED BY:

Herbst Engineering, Inc.

5980 24th Street / P.O.Box 22504

Sacramento, CA 95822

EMERGENCY CONTACTS

Kaiser Hospital
McArthur Blvd., Oakland, CA

596-1055

Fire / Police
Poison Control
Emergency Response

911

800 342-9293

800 852-7550

Clover Hospital
Highland Hospital
1411 E 31st St
Oak.

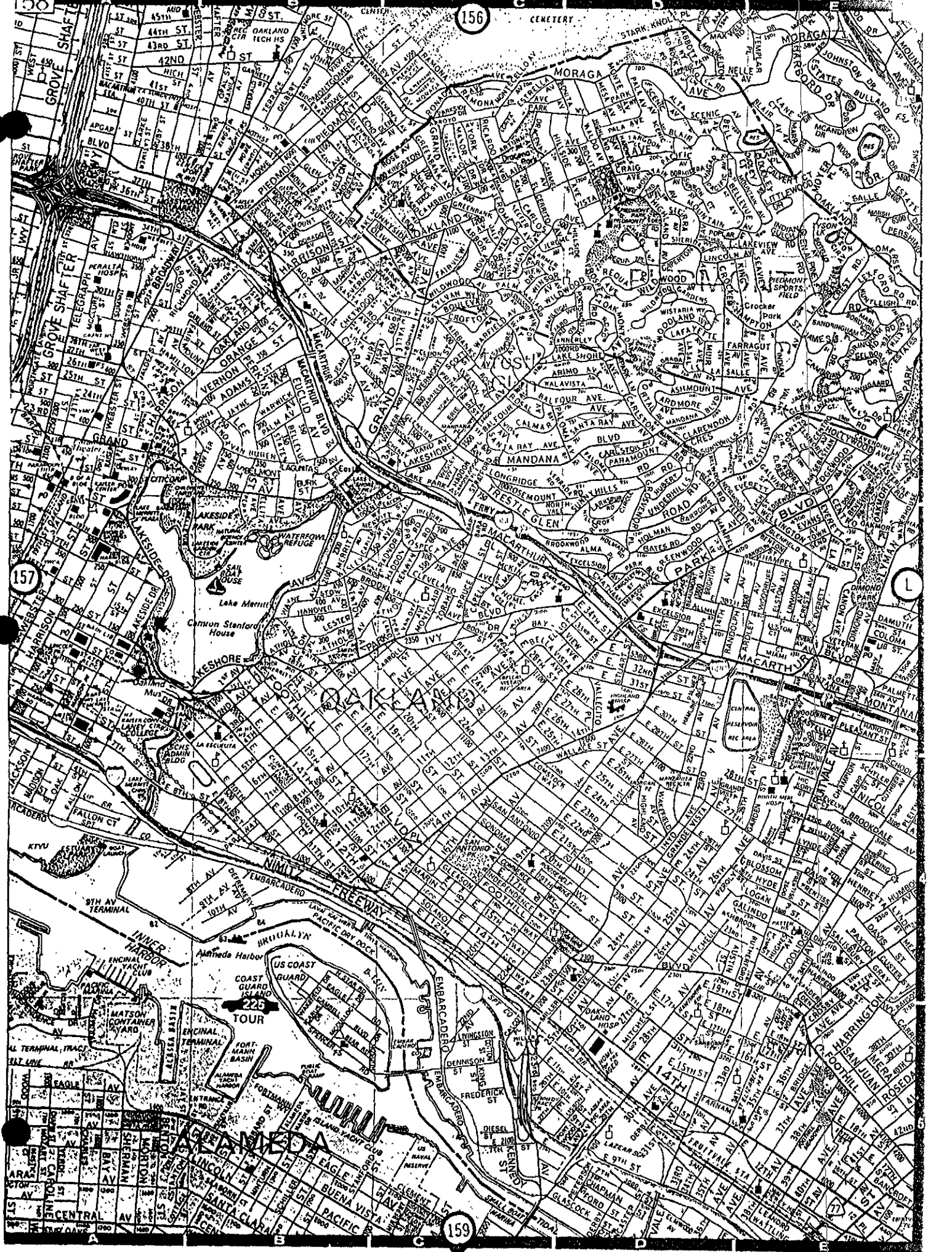


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A. KEY PERSONAL AND SAFETY RESPONSIBILITIES

PURPOSE

Responsibilities will be assigned and appropriate authority will be established for the of enforcement and compliance with the safety policies and procedures within this plan.

PERSONAL

PROJECT SUPERINTENDENT: Edward G. Herbst, Herbst Engineering, Inc.

The project Superintendent reports to the Project Manager. He is in charge of hazardous waste packaging and handling activities and equipment handling. He is responsible for integrating hazard recognition and control in all work activities, and is immediately responsible for enforcing the Health and Safety Plan.

SITE MANAGER: Edward G. Herbst, Herbst Engineering, Inc.

The Site Manager reports to the Superintendent, as in this case the same individual fills both positions. He is responsible for making sure that all activities and services are completed and provided in a safe manner, according to the contract and county regulations. In addition, he is responsible for the preparation of the manifest for all hazardous materials packaged on the site.

SAFETY RESPONSIBILITIES

All personal are required to have completed the 40 hour OSHA Hazardous Waste Safety Training before arriving on site. Copies of Certificates for each worker shall be available. The training will fulfill all requirement set fourth in the California State Department of Labor and Industry Standards and Federal OSHA standards for construction and general industries, including all applicable hazardous waste regulations.

***All personal are required to follow all Health and Safety rules set herein.**

A 1 FIELD PERSONNEL

All field personnel will follow the requirements of the SHP, and shall be responsible for the following:

- At all times acting in a responsible and cautious manner in order to prevent accident, injury and/or exposure to themselves and their co-workers.
- Reporting any and all accidents, injuries, exposures and/or near misses to the safety and Health officer and/or Field Supervisor.
- Attending and participating in all Tailgate Safety Meetings conducted during the project.
- Following the instructions and discretions of the Safety and Health Officer and the Field Supervisor.
- Utilizing the personal protective equipment provided and specified for use.
- Following all field safety procedures for safe work practices, buddy system, communication, site control, decontamination, evacuations and related emergency procedures.
- Performing only those tasks they have been instructed to perform and that they believe they are trained, qualified and capable at the time of assignment of performing.
- Reporting to the Field Supervisor of Safety and Health Officer any personal condition that they reasonably believe could affect their safety and/or the safety of co-workers (i.e. fatigue, drowsiness, severe illness, impairment by prescription medication, influence by alcohol and drugs, emotional distress or other Condition).
- Ensuring that no work tasks are performed in deviation from the SHP and/or initial instructions of the Field Supervisor of Safety and Health Officer without the expressed authorization and additional instruction of the Field Supervisor and/or Safety and Health Officer.

B AIR MONITORING, HAZARDOUS ASSESSMENT, AND RISK ANALYSIS

Air Monitoring

The purpose of air monitoring is to identify and quantify airborne levels of hazardous substance in order to determine and verify the level of employee protection required on site. There has been no contamination noted thus far on site. Air monitoring will not be performed unless previously undetected and significant contamination is discovered.

Whenever it is suspected that employees may be exposed to concentrations of airborne contaminants in excess of permitted levels, monitoring of work environment is required. Evaluation assist in determining what control measures can be developed and implemented to reduce exposure. Sampling is accomplished by monitoring the immediate work area. Monitoring devices which can be used include:

*OVM to detect total airborne concentrations of Volatile Organic Compounds

The decision to implement monitoring must be performed when working conditions change, such conditions in which it should be determined whether the possibility that exposures have risen include, but are not limited to the following:

1. When work begins on a different section of the site.
2. When new contaminants are suspected or found.
3. When a new phase of operation begins.
4. When employees are working in areas of obvious contamination.

SITE MONITORING- ACTION LEVELS

ORGANIC VAPOR CONCENTRATION

Less than or equal to 50ppm protection
50 to 100 ppm w/organic vapor cartridges
100 ppm and greater

Benzene less than 0.5 ppm protection
Benzene greater than 1 ppm

RESPONSE OR ACTION

No respiratory
Air purifying respirator
Cease work and tank steps
to reduce concentrations to
acceptable levels.
No Respiratory
Cease work and take steps to
reduce concentrations to
acceptable levels.

TABLE 1
SAFETY & HEALTH RISK ANALYSIS
CONTAMINANTS OF CONCERN

Contaminant	IDLH (ppm)	PEL/ TLV (ppm)	STEL (ppm)	Odor Threshold Concentration (ppm)	Route of Exposure	Symptoms of Acute Exposure
Gasoline	None Listed	300	None Listed	1.0	Inh., Con., Abs., Ing.	Irritation of respiratory tract, headache, nausea, mental confusion, possible loss of consciousness, Aspiration can lead to chemical pneumonitis. May cause defatting, drying, and irritation of skin in liquid form. Vapor and liquid both irritating to eyes
Diesel Fuel	None Listed	300 ¹	None Listed	1.0	Inh., Con., Abs., Ing.	Irritation of respiratory tract, headache, nausea, mental confusion, possible loss of consciousness, Aspiration can lead to chemical pneumonitis. May cause defatting, drying, and irritation of skin in liquid form. Vapor and liquid both irritating to eyes
Waste Oil ²	None Listed	None Listed	None Listed	Variable ²	Inh., Con., Abs., Ing.	Irritation of respiratory tract, headache, nausea, mental confusion, possible loss of consciousness, Aspiration can lead to chemical pneumonitis. May cause defatting, drying, and irritation of skin in liquid form. Vapor and liquid both may be irritating to eyes
Benzene	2000	1/10	5	4.68	Inh., Con., Abs., Ing.	Dizziness, excitation, skin pallor followed by flushing; weakness; headache; breathlessness; chest constriction; coma and possible death
Toluene	2000	200/100	150	.17	Inh., Con., Abs., Ing.	Irritates eyes and upper respiratory tract, Vapor causes dizziness, headache, anesthesia, respiratory arrest. Liquid irritates eyes and causes drying of skin. If aspirated, causes coughing, gagging, distress, and rapidly developing pulmonary edema. If ingested causes vomiting, griping, diarrhea, depressed respiration
Xylene	10,000	100/100	150	.05	Inh., Con., Abs., Ing.	Headache or dizziness; liquid irritates eyes and skin. Inhalation of liquid causes severe coughing, distress, and rapidly developing pulmonary edema. Ingestion causes nausea, vomiting, cramps; and coma. Can be fatal; kidney and liver damage can occur.
Ethyl Benzene	2000	100/100	125	140	Inh., Con., Abs., Ing.	Inhalation causes nose irritation, dizziness, depression. Moderate injury to eye with corneal injury possible. Irritates skin and may cause blisters

1 - None specifically listed for diesel fuel, use levels for gasoline

2 - Oily Wastes are a mixture of various, generally heavy-end, hydrocarbons with little or no aromatics present

FLAMMABLE/EXPLOSIVE ATMOSPHERE

Because many of the constituents identified in this project are flammable, tanks and pipeline to be removed may contain, or generate upon handling, flammable/explosive atmosphere containing ten percent or greater of the lower flammable limit relative to the calibration gas of the air monitoring instrument used to sample such atmospheres (10% LEL) shall be considered a flammable and explosive atmosphere. In the event a flammable/explosive atmosphere is identified, all sources shall be eliminated, all employees removed for the work area and the location ventilated. In the case of tanks, the interior shall be inerted with carbon dioxide (i.e. dry ice) prior to any additional handling. Care shall be taken to keep all filed personal upwind during all tank inerting operations.

WARNING - LEL measurements blow 10% indicate the following;

- The atmosphere is not considered flammable/explosive.
- The atmosphere concentration may change (i.e. get better, get worse).
- The atmosphere still contains high concentrations of measurable hydrocarbons which may likely be toxic (or even fatal) if personnel exposure is not controlled.

VEHICLE TRAFFIC

All field personal shall wear high visibility traffic safety vests, unless the work location is significantly remote from any vehicle traffic. Vests shall be donned immediately upon exiting vehicles. In addition, all work areas shall be clearly marked and designated using a combination of traffic cones, barricades and warning tape. In addition, employees may be exposed to vehicle accident hazards associated with the operation of vehicles during the project. To control these hazards, the following safety requirements will be strictly enforced.

- Seat belts shall be worn ANYTIME a vehicle is in motion, regardless of speed or distance to be traveled. Seat belt requirements also apply to the operation of backhoe and other construction equipment.
- The basic speed law shall be followed at all times. Vehicles shall never be operated at a speed that is not safe for the conditions (i.e. road surface, traffic, visibility, weather and etc).

OPEN EXCAVATION HAZARDS

The project involves the uncovering, excavation and removal of underground tanks and pipelines. Primary hazards associated with excavations is exposure to the open, excavated area, resulting in falls and/or collapse. To mitigate this hazard, the following safety actions shall be taken.

- No person shall be allowed to enter any excavation greater than five feet deep or less than five feet when soils testing and conditions indicated that the soils are prone to movement. This SHP does not address entry into excavations that require protection prior to entry.
- All excavated soils (spoils) shall be placed a minimum of two feet back from the edge of the excavation and at a distance to prevent excessive loading on the face of the excavation.
- The use of heavy and/or vibrating equipment (with the exception of the excavating equipment itself) adjacent to excavations shall be prohibited.
- The position and proximity of the backhoe and other equipment shall be considered when assessing the dangers of moving ground and the need to protect excavations from collapse.
- All excavated areas shall be clearly marked and/or fenced to prevent unauthorized and/or accident entry into work areas.
- Necessary foot and vehicle traffic shall be directed away from and around excavation work areas, and the routes clearly marked
- Excavations shall be protected from intrusion of water.

CONFINED SPACE ENTRY

The scope of work does not require personnel to enter into tanks, excavations or other confined spaces. Field personnel are strictly forbidden to enter any confined spaces, for any reason, as a safety mandate of this SHP. Therefore, the SHP does not currently address confined space entry hazards and/or safety procedures. The SHP shall be revised, reviewed and approved prior to any confined space entry work, should this operation become necessary.

HOT WORK

Hot work may be defined as any operation which may potentially create a source of ignition. This operation is extremely dangerous when conducted anywhere that a flammable and/or explosive atmosphere (or fire hazard) may be present. Because the tanks and pipelines to be removed and scrapped are expected to contain at least some residues of diesel fuel, sources of ignition shall be eliminated during all operations that may interact with tank atmospheres. The scope of work does not require personnel to perform hot work.

For tank removal operations, all tanks shall be inerted using dry ice at 20 lbs. per 100 gallons. Tank atmospheres shall be checked using a properly calibrated combustible gas meter for percent lower explosive limit (%LEL) prior to removal from the ground. Representative samples shall be taken from various locations/levels within each tank to ensure that the environment is consistent. Prior to lifting, tank atmosphere must be less than 10 percent LEL (<10%LEL) and less than 10 percent oxygen (<10%O₂).

SITE CONTROL

Site control procedures for this project shall include the establishment of a work site, providing site security to warn of unauthorized access and to secure work locations between shifts.

Work zones shall be established by the Safety and Health Officer (SHO). Appropriate work zones including an exclusion zone, decontamination station and support zone shall be established based on specific conditions of the work site.

An exclusion zone will be established around the immediate work area, and shall be clearly marked by a combination of traffic cones, barricades and/or high visibility barrier tape. The exclusion zone shall mark the area where direct handling operations are occurring and where field personnel may be exposed to chemical and physical hazards. Entry into the exclusion zone shall be regulated by the SHO and Field Supervisor. No person shall enter an exclusion zone if they are not wearing the required protective clothing and equipment (i.e. Level D). All personnel existing an exclusion must pass through the decontamination zone, following the required decontamination procedure.

The size and shape of the exclusion zone shall be based on known and anticipated hazards, type of operation being performed, physical and topographical features potential for site emergencies affecting surrounding areas, etc.

At the end of each work day, any open excavations shall be temporarily barricaded in ALL directions with barricades, and all barricades connected by barrier tape. A similar procedure shall apply to any stockpiled soils. Alternatively, the work area may be secured with chain like fencing.

DECONTAMINATION

A decontamination station and appropriate decontamination procedures shall be established by the SHO prior to the beginning of operation. The decontamination station shall be situated up-wind and up-gradient from the exclusion zone, be clearly marked, and provide controlled access point for movement between the exclusion zone and support zone. Decontamination requirements shall be reviewed with field personnel during daily Tailgate Safety Meetings. The following decontamination procedures shall be implemented;

LEVEL D

- * Move to designated Decontamination area.
- * Clean work boots of any accumulation of soil or mud.
- * Remove leather gloves.
- * Wash hands and face.

TAILGATE SAFETY MEETINGS

The SHO shall conduct a Tailgate Safety Meeting with all field personnel including subcontractor personnel, at the beginning of every shift. This safety meeting shall be documented using a Tailgate Safety Meeting form (see attachment 5). The Tailgate Safety Meeting form shall be updated whenever daily site conditions, hazards or scope of work changes. this form shall be maintained on-site during the project.

SAFETY INSPECTIONS

The SHO shall perform a daily safety inspection of the work site. The daily safety inspections shall be documented using the Safety Inspection form (see attachment 6). The SHO shall ensure that all immediate hazards are corrected before work proceeds and that all other hazards and potential safety situations are corrected in a timely manner in relation to this project.

ACCIDENT INVESTIGATIONS

In the event of an injury, illness or near miss, the incident shall be immediately reported to the Field Supervisor of SHO. If required emergency medical care of first aid be rendered. The Field Supervisor shall then initiate a Supervisor's Report of Injury, and all other documents required for injury/illness reporting and worker's compensation claims.

As soon as possible after the occurrence of an occupational accident the SHO shall initiate an Accident Investigation. The investigation shall be documented on a accident Investigation form (see attachment 8).

B 1 PHYSICAL HAZARDS

Physical hazards expected on the job site include those associated with excavation using construction equipment. All personnel are warned and trained to stay at least 10 feet away from the equipment unless they have made visual contact with the operator and the operator has communicated permission to approach the equipment operator's work area.

Equipment also generates a noise level in the immediate vicinity of the operating equipment. Hearing protection will be required for those people working within 30 feet of the equipment for more than one hour a day.

A hazard exists where the equipment operator may have to operate in areas that he or she can not see. In this case, one of the other personnel will be stationed in a position to see both the operator and the work area. Standard hand signals will be used to communicate with the operator.

EXCAVATION

Jackhammers may be used to break up any asphalt in or around the job site. Proper hearing protection will be used by the operator and by all people working within 30 feet of the equipment for more than one hour a day.

Allowable Exposure

Sound Level (dbA)	Times per day (hrs)
90	8
95	4
100	2
105	1
110	1/2

Protective goggles shall be worn by all personnel within 30 feet of this activity to avoid injury to the eyes from flying debris. Personnel will not be allowed within the 30 foot range unless they are needed to assist the operation.

All activities within the scope of this project must comply with all applicable federal and California OSHA safety standards to reduce the risk of injury. Although other rules may also apply, the following controls are to be emphasized for this project.

HYGIENE

1. No smoking on site.
2. No eating or drinking in the contamination/decontamination area.
3. Workers will remove all contaminated personal protective clothing before leaving the decontamination area.
4. A Supply of fresh running water of safety shower and eye washes will be provided.
5. Pathways/work areas will be clear of debris to avoid trapping hazards.

PERSONAL PROTECTIVE EQUIPMENT

Excavation and removal will be performed in an area with good air circulation, and contaminant levels in the area have been previously shown to be below the 8 hour PEL, therefore Level D PPE should be adequate for all tasks associated with this UST excavation, removal and disposal.

Level D PPE includes as a minimum, the following:

1. Protective eye wear or safety glasses/goggles appropriate for the activity being performed.
2. Steel toed footwear.
3. Hard hats while working around equipment.
4. Gloves appropriate for each site activity.
 - a) Heavy work gloves for handling general equipment and materials.
 - b) Latex inner gloves and nitrile outer gloves for handling chemicals or contaminated soil.
5. Tyvex coveralls (optional)

Criteria for use of level D PPE

1. No indication of airborne health hazards present.
2. No gross indications above background on the OVM.

LEVEL C PROTECTION

Level C protection will be selected when the types and concentrations of respiratory materials are known, have adequate warning properties, or are reasonably assumed to be not greater than the protection factors associated with air-purifying respirators and exposure to the few unprotected areas of the body, (i.e., neck and back of head) is likely to cause harm.

Level C PPE for this project as a minimum includes the following;

1. Full or half-face air purifying respirator (OSHA approved) with VOC canisters. Protective eye wear of safety goggles will be worn with a half face respirator.
2. Chemical resistant clothing. Full body cloth coverage: hooded chemical splash suite. (Saranex or equivalent)
3. Gloves-outer (Chemical protective), inner (tight, chemical resistant).
4. Steel-toed chemical resistant boot or steel toed boot with chemical resistant outer boot.
5. Hard hat (Mandatory)

Criteria for use of level C PPE

1. Site known to contain potential hazards not to exceed.
 - A. Air concentrations of material not requiring a protection factor greater than that afforded by a full face mask (normally considered to be 100).
 - B. Body exposure to unprotected area is nonexistent or less than any amount that will cause harm.
 - C. No evidence of acute or chronic effects to expose personal.
2. Total vapor reading between 0ppm and 5 ppm above background on instruments such as the OVA.
3. Airborne Benzene concentrations 0.5ppm.

*****IN EVENT OF CHEMICAL EXPOSURE**

(Skin Contact, Inhalation, Ingestion)

- A. Another team member should remove the individual from the immediate area of contamination. The SHO shall be notified of the chemical exposure and contact the appropriate emergency response agency.
- B. Precautions shall be taken to avoid exposure of other individuals to the chemical.
- C. If the chemical is on the individuals clothing, it will be removed or neutralized if it safe to do so.
- D. If the chemical has contacted the skin, the skin will be washed with clean water.
- E. In event of eye contact, an emergency eye wash will be used to flush the eyes for at least 15 minutes.

A 8. Emergency Spill Contingency Plan;

The Emergency Coordinator must immediately and effectively carry out the required emergency procedures in the event of an emergency involving hazardous waste.

He or she must activate internal facility alarms of communications systems to notify all facility personnel, and must notify appropriate state or local agencies with the information that will allow them to carry out their designated response roles, if they are needed in the emergency.

Where there is an emergency resulting in a release, fire or explosion, the emergency coordinator must carry out these responsibilities:

1. Identify the character, exact source, amount and a real extent of any released hazardous materials or waste.
2. Assess the possible hazards to human health or the environment, considering both the direct and indirect effects of the release, fire or explosion.
3. Determine whether the release, fire or explosion may require the evacuation of the local areas and if so determine, immediately notify that appropriate local authorities, assisting them in determining which local area require evacuation.
4. The emergency coordinator must immediately notify the government official designated as the on-scene Coordinator or the National Response Center, This telephone report must include:
 - * Name and telephone number of the reporter
 - * Time and Type of Incident
 - * Name and quantity of the material, if known
 - * The extent of injuries or fatalities, if any
 - * The possible hazards to human health or the environment outside the facility or plant.
5. The emergency coordinator shall take all reasonable measures to ensure that fires, explosions or releases do not re-occur or spread to other hazardous wastes that may be stored at the facility or plant.

Once it has been determined that the emergency no longer exists, the emergency coordinator must provide for the treating, storage or the disposing of all recovered waste, contaminated soil or debris or surface water from the release or emergency. And ensure that all emergency equipment is cleaned and fit for its intended use, before operations at the facility or plant are resumed. Within 15 days of the emergency, the Generator, or the Owner, or Operator of a treatment, storage or disposal facility shall submit a written report to the Regional Administrator in the EPA region where the emergency took place... and provide the following information.

- The name, address and telephone number of the generator, owner or operator.
- The name, address and telephone number for the facility, plant or location, if different than that of the generator, owner or operator.
- The date and time and type of incident.
- The name and quantity of the materials involved.
- The extent of any injuries or fatalities, if any.

An assessment of the actual or potential hazards to human health or the environment, if applicable.

A 8. Page 2 of 2

And, the estimated quantity and disposition of recovered materials that resulted from the incident.

SITE SPECIFIC HEALTH AND SAFETY PLAN ACKNOWLEDGMENT

I have read, understand, and agree to abide by the provisions as detailed in this Site Specific Health and Safety Plan prepared by Health Engineering, Inc. for the underground fuel tank removal project located at 4028 East 14th Street, Oakland, CA. Failure to comply with these provisions may lead to disciplinary action and/or my dismissal for the work site.

PRINTED NAME

SIGNATURE

DATE

1. _____
2. _____
3. _____
4. _____

HERBST ENGINEERING, INC.
Instrument Calibration Check Log

Instrument _____ Manufacturer _____ Serial No. _____

Project _____ Job No. _____ Safety Officer _____

Date	Battery Check	Leak Test	Zero Adjustment	Alarms	Calibration Gas	Instrument Readings	Comments	Calibrated By

HERBST ENGINEERING, INC.
Exposure Monitoring Log

Type of Monitoring _____ Project _____ Date _____

Instrument _____ Manufacturer _____ Serial No. _____

Time	Person/Location	Result	Comments	Sampled By

**TAILGATE SAFETY MEETING
HERBST ENGINEERING, INC.**

Department/Location _____ Manager _____ Date _____

Description of Work _____

Hazards _____

Safety Procedures _____

Protective Clothing and Equipment _____

Emergency Procedures _____

Emergency Contacts

Safety Coordinator _____ Telephone _____

Manager _____ Telephone _____

Fire _____ Telephone _____

Medical _____ Telephone _____

Meeting Conducted: Date _____ Time _____ By _____

Meeting Questions/Discussion _____

Additional Comments _____

		Attendance			
Print	Sign	Print	Sign	Print	Sign
1		11			
2		12			
3		13			
4		14			
5		15			
6		16			
7		17			
8		18			
9		19			
10		20			

Manager / Date

Safety Coordinator / Date

SAFETY INSPECTION REPORT HERBST ENGINEERING, INC.

Department/Location _____ Manager _____ Date _____

Description of Area/Operation _____

Observations	Hazard Code	Corrective Action

Hazard Code: I = Immediate, P = Priority, G = General

SAFETY INSPECTION CHECK LIST FOR CONSTRUCTION EQUIPMENT

(Including Cranes, Derricks, and Hoisting Equipment)

PROJECT	CONTRACTOR	CONTRACT NO.
TYPE AND MAKE OF EQUIPMENT	MODEL	SERIAL NO.

Before any machinery or mechanized equipment is placed in use, it shall be inspected and tested by a competent mechanic and certified to be in good operating condition. Records of tests and inspections shall be maintained as part of the active contract file at Project or Resident Office. Check list set forth herein requires the application of EM 385-1-1, Safety and Health Requirements Manual, 1 Oct 87. The appropriate EM paragraph to be applied is listed at the end of each testing requirement.

CHECK LIST	Yes	No	Not Appl
1. ARE ADEQUATE AND SERVICEABLE FIRE EXTINGUISHERS PROVIDED? (12.A.01)			
2. ARE ALL WIRE ROPE CABLES IN GOOD CONDITION? (17.C.01)			
3. ARE WIRE ROPE, SOCKETS, SPLICES, THIMBLES AND CLIPS ADEQUATE AND PROPERLY APPLIED? (17.C.00)			
4. ARE HOOKS, SAFETY NOOKS, SHACKLES, RINGS, ETC., IN GOOD CONDITION? (17.A.02, 17.A.00)			
5. ARE NECESSARY PLATFORMS, FOOTWALKS, ETC., PROVIDED? (10.B.00)			
6. ARE ACCESS STEPS, PLATFORMS, ETC., PROVIDED WITH NON-SLIP SURFACES? (10.B.00, 10.A.14, 20.B.03)			
7. IS OPERATOR PROTECTED AGAINST THE ELEMENTS, FALLING OR FLYING OBJECTS, SWINGING LOADS, AND SIMILAR HAZARDS? (10.B.10, 10.A.13, 10.B.17, 10.B.19, 10.B.21)			
8. ARE ALL GLASSES IN OPERATOR'S COMPARTMENT SAFETY GLASS AND IN GOOD REPAIR? (10.A.14, 10.A.10, 10.B.10)			
9. IS SUITABLE ACCESS PROVIDED TO LUBRICATION POINTS? (10.A.10)			
10. DO ALL MODIFICATIONS, EXTENSIONS, REPLACEMENT PARTS, AND/OR REPAIRS TO EQUIPMENT MAINTAIN THE SAME FACTOR OF SAFETY AS ORIGINAL DESIGNED EQUIPMENT? (10.A.33, 10.C.04)			
11. ARE DRUMS FOR LOAD LINES EQUIPPED WITH AT LEAST ONE POSITIVE HOLDING DEVICE, APPLIED DIRECTLY TO THE MOTOR SHAFT OR SOME PART OF THE TRAIN GEAR? (10.C.00)			
12. IS THERE SUFFICIENT CABLE TO ALLOW TWO FULL WRAPS OF CABLE ON DRUMS AT ALL WORKING POSITIONS? (10.C.07)			
13. ARE ADEQUATE HEADLIGHTS, TAIL-LIGHTS AND TURN SIGNALS PROVIDED AND ARE THEY IN PROPER OPERATING CONDITION? (10.A.00, 10.A.10)			
14. ARE ALL APPROVED BRAKES ON WHEELED EQUIPMENT AND IN GOOD OPERATING CONDITION? (10.A.21, 10.A.22, 10.A.07, 10.A.00)			
15. DO WINDSHIELDS HAVE WIPERS IN PROPER OPERATING CONDITION? (10.A.10, 10.A.20)			
16. ARE REAR VIEW MIRRORS PROVIDED? (10.A.12)			
17. ARE OPERATING LEVERS EQUIPPED WITH LATCH OR OTHER DEVICES TO PREVENT ACCIDENTAL STARTING? (10.A.21)			

CHECK LIST	Yes	No	Not Appl
18. IS ENGINE EQUIPPED WITH POWER-OPERATED STARTING DEVICE IN OPERATIVE CONDITION? (10.A.24)			
19. DO ALL PRESSURE VESSELS HAVE VALID INSPECTION CERTIFICATES? (21.A.01, 21.B.01, 21.C.01, 21.D.01)			
20. ARE REVERSE SIGNAL ALARMS ON EQUIPMENT? (10.B.01)			
21. ARE BELTS, GEARS, SHAFTS, ELECTRICAL CONTACTS, ETC., ADEQUATELY GUARDED? (10.B.03, 10.A.04)			
22. ARE ALL HOT PIPES AND SURFACES SUITABLY GUARDED? (10.B.04)			
23. ARE FUEL TANKS LOCATED SO THAT SPILLS OR OVERFLOWS WILL NOT COME IN CONTACT WITH ENGINE OR EXHAUST? (10.B.06)			
24. ARE EXHAUSTS AND DISCHARGES SO DIRECTED AS NOT TO ENDANGER WORKMEN OR OBSTRUCT VIEW OF OPERATOR? (10.B.06)			
25. ARE GUARDS IN PLACE ON EQUIPMENT WITH DROP TYPE SKIP PANS? (10.B.07)			
26. ARE ADEQUATE SEATS PROVIDED FOR ALL RIDERS? (10.A.07, 10.C.01, 10.C.02)			
27. ARE TIRES IN SERVICEABLE CONDITION? ARE TESTING/INSPECTIONS DOCUMENTED? (10.A.01, 10.A.03)			
28. ARE STEERING LINKAGE AND TIE ROD IN GOOD OPERATING CONDITION? ARE TESTING/INSPECTIONS DOCUMENTED? (10.A.01)			
29. ARE DUMP BODIES PROVIDED WITH HOLDING DEVICE OR OTHER SUITABLE DEVICE FOR LOCKING BODY IN RAISED POSITION? (10.A.20)			
30. ARE TAILGATE DUMPING DEVICES SO ARRANGED THAT OPERATOR WILL BE IN THE CLEAR WHILE DUMPING LOADS? (10.A.22)			
31. ARE TRIP-HANDLES PROVIDED ON TAILGATES TO FACILITATE HANDLING? (10.A.22)			
32. IS AIR HOSE FREE FROM LEAKS OR DEFECTS? (10.A.07)			
33. ARE SAFETY LASHINGS FOR QUICK MAKE-UP TYPE CONNECTIONS PROVIDED? (10.E.03, 12.A.10)			
34. IS ACCEPTABLE SPARK ARRESTOR INSTALLED AND WORKING? (10.B.06, 12.C.03)			
35. DO HEATING DEVICES COMPLY WITH REFERENCES? (00.B, 12.D)			
36. DOES WELDING EQUIPMENT COMPLY WITH CODE REQUIREMENTS? (14.A.01, 14.A.02, 14.A.03, 10.A.04)			
37. IS EQUIPMENT ADEQUATELY GROUNDED? (14.C.02, 14.C.03, 10.A.08)			
38. DO ELECTRICAL COMPONENTS COMPLY WITH CODE? (10.A.01)			
39. ARE REQUIRED PRESSURE, TEMPERATURE OR RELIEF GAGES AND VALVES INSTALLED AND OPERABLE? (21.A.10, 21.A.11, 00.B.06)			
40. ARE APPROVED SEAT BELTS AND ROLL-OVER PROTECTION PROVIDED? (10.B.16, 10.B.20)			
41. IS RECOMMENDED PREVENTIVE MAINTENANCE BEING FOLLOWED? (10.A.03)			

CHECK LIST	Yes	No	Not Appl
42. DO HELICOPTER CRANES MEET CONSTRUCTION REQUIREMENTS? (18.Q.01, 18.Q.04, 18.Q.10)			
43. DO HYDRAULIC JACKS MEET SPECIAL SAFETY CONDITIONS? (18.A)			
44. IS CONCRETE EQUIPMENT FITTED WITH ADEQUATE SAFETY DEVICES? (18.O.02, 18.O.03, 18.O.06, 18.O.07, 18.O.08)			
45. ARE ELEVATING AND ROTATING WORK PLATFORMS IN CONFORMANCE WITH ANSI A92.2? (18.N.01)			
46. DO CONVEYORS, CABLEWAYS, AND RELATED EQUIPMENT CONFORM TO ANSI B20.01? (18.K.01)			
47. ARE PILE DRIVERS EQUIPPED WITH ALL APPROPRIATE SAFETY DEVICES? (18.J)			
48. DO MATERIAL HOISTS CONFORM TO ANSI A10.5? (18.I)			
49. DO PASSENGER ELEVATORS CONFORM TO ANSI A10.4? DO TEMPORARY HOISTS IN ACCORDANCE TO ANSI A10.22? (18.H.01)			
50. DO HAND AND POWER TOOLS COMPLY WITH APPLICABLE ANSI STANDARDS? (SEC 18)			
<i>The following six questions apply to Cranes and Hoisting Equipment only and need not be answered for other construction equipment.</i>			
51. IS HIGH VOLTAGE SIGN POSTED? (18.E.08, 18.C.02)			
52. IS EQUIPMENT FITTED WITH POSITIVE STOPS FOR ROTATION WHEN NEAR POWER LINES? (18.E.08)			
53. IS THERE ANY VISIBLE EVIDENCE OF DAMAGE TO BOOM? (18.A.01, 18.C.01)			
54. IS THE BOOM POSITION INDICATOR OPERATING AND VISIBLE TO OPERATOR? (18.D.04, 18.C.13, 18.E.08, 18.F.03, 18.G.04)			
55. HAVE ALL OPERATORS HAD A CURRENT PHYSICAL EXAMINATION? (08.A.01, 08.B.03)			
56. IS BRAKING EQUIPMENT CAPABLE OF EFFECTIVELY BRAKING, LOWERING AND SAFELY HOLDING A LOAD OF AT LEAST THE FULL RATED LOAD AS REQUIRED? (18.C.08)			
REMARKS:			
CERTIFICATION: <i>I hereby certify that this item of equipment is in good operating condition and that it meets all above requirements except as noted under remarks.</i>			
_____ SIGNATURE OF COMPETENT MECHANIC	_____ DATE		
_____ SIGNATURE OF SUPERINTENDENT/QUALITY CONTROL ENGINEER	_____ DATE		

ACCIDENT INVESTIGATION REPORT
HERBST ENGINEERING, INC.

General Information

Department/Location _____ Date of Incident _____

Manager _____

Affected Employee(s) _____

Type of Incident _____

Investigated by (Name/Title) _____

Date Investigation Initiated _____ Date Investigation Completed _____

Description

What Occurred? _____

How did it occur? _____

When did it occur? _____

Who was involved? _____

Who witnessed incident (name and statement)? _____

What injuries (body part, action taken, etc.)? _____

What property damage occurred? _____

What action was taken at the scene? _____

Findings and Recommendations

Findings (What caused the incident)? _____

Recommendation (corrective action) _____

This accident investigation was completed by:

_____/_____/_____
Signature Title Date

This accident investigation has been approved and appropriate corrective action taken.

_____/_____
Manager Date

_____/_____/_____
Safety Coordinator Date Management Date

**MANAGER'S REPORT OF EMPLOYEE INJURY
HERBST ENGINEERING, INC.**

Employee's Name _____ Position _____ SS# _____

Birthdate _____ Home Address _____ Home Phone _____

Job/Project _____ Address _____ Phone _____

Description of Work _____ Location of Accident _____

Date of Injury _____ Time of Injury _____ Time Reported to Sup. _____ Time Shift Began _____

Description of Incident _____

Nature of Injury/Part of Body Affected _____

Manager _____ Job Personnel _____

Was Incident Witnessed? Yes/No By Whom? _____

Statement of Witness(es) _____

Action Taken at Scene _____

_____ By Whom? _____

Incident Reported to Manager? Yes/No When? _____ By Whom? _____ To Whom? _____

Did Employee Leave Work? Yes/No Time _____ Date & Time Employee Returned to Work _____

First Aid _____ Doctor's Case _____ Follow-Up Visit Required _____ Hospitalized _____

How Did Accident/Injury Occur? _____

Unsafe Conditions Identified _____

Corrective Action Taken _____

Injured Employee's Signature _____ Date _____

Manager's Signature _____ Date _____

Safety Coordinator _____ Date _____

SITE EMERGENCY NOTIFICATION WORKSHEET

INFORMATION

Depending on the nature of the incident, you should be prepared to give the following information:

Name _____	
Call back telephone number _____	
Nature of incident _____	

Type and volume of chemicals involved _____	

Injuries _____	

Exact location _____	

Threatened populations _____	

Threatened environmental features _____	

Actions taken and/or requested _____	

AGENCIES

Depending on the nature of the incident, you may be required to contact any of the following agencies:

<u>Agency</u>	<u>When to Notify</u>
Local Fire Department	Fire, spill, explosion, bomb threat*
Police Department	Fire*, spill*, explosion, bomb threat
Local Emergency Response Agency	Fire*, spill*, explosion*, bomb threat*
California Highway Patrol (CHP)	Fire or spill on public road or highway
California Office of Emergency Services (OES)	If, after initial actions are taken, the incident poses an actual or potential threat to facility, public and/or environmental safety
National Response Center (NRC)	If a chemical release exceeds its Reportable Quantity (RQ)
California Regional Water Quality Control Board (RWQCB)	If a release or threatened release may adversely affect ground and/or surface waters
California Department of Fish and Game	Spill on public lands or off-highway and if a release or threatened release may adversely affect surface waters and wildlife areas
United States Coast Guard	If a release enters a navigable water or area affecting a navigable waterway

*Notification may be required by local ordinance or if department has jurisdiction over such an event.

**STATE
COMPENSATION
INSURANCE
FUND**

P.O. BOX 420807, SAN FRANCISCO, CA 94142-0807

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

JUNE 13, 1994

POLICY NUMBER: T-13105 - 95
CERTIFICATE EXPIRES: 1-1-96

DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND CA 94621

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon ³⁰ten days' advance written notice to the employer.

We will also give you ³⁰TEN days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to, which this certificate of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

Tom Hansen

AUTHORIZED REPRESENTATIVE

Kc Bollier

PRESIDENT

EMPLOYER'S LIABILITY LIMIT INCLUDING DEFENSE COSTS: \$1,000,000 PER OCCURRENCE

ENDORSEMENT #2065 ENTITLED CERTIFICATE HOLDERS' NOTICE EFFECTIVE 06/01/95 IS ATTACHED TO AND FORMS A PART OF THIS POLICY.

EMPLOYER

HERBST ENGINEERING, INC.
P.O. BOX 22504
SACRAMENTO CA 95822

CONTRACTORS STATE LICENSE BOARD

No. 503266

Building Quality

ISSUED 12-24-80

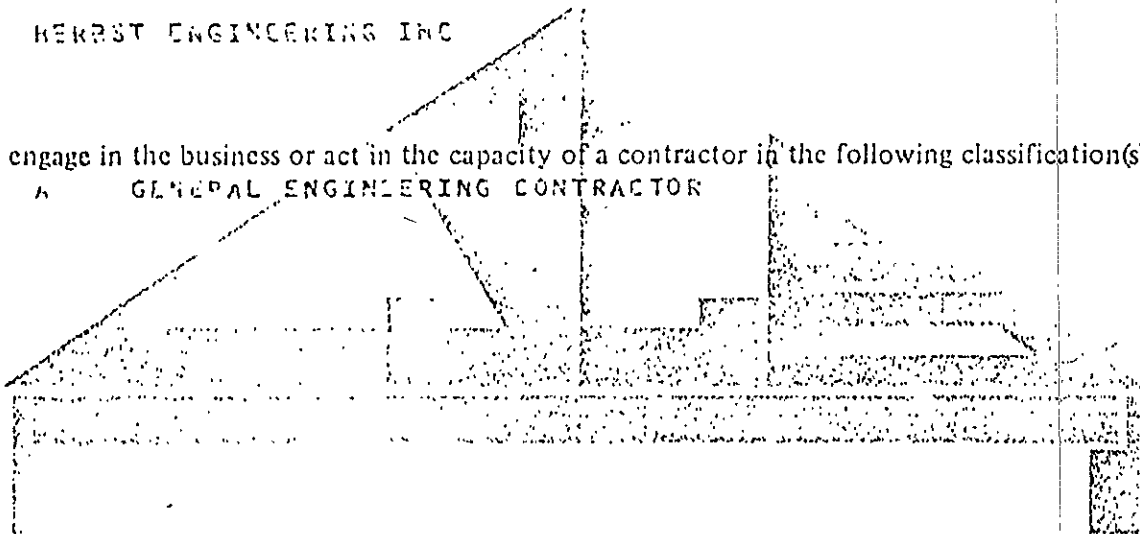
This license is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason. It becomes void if not renewed.

Contractor's License

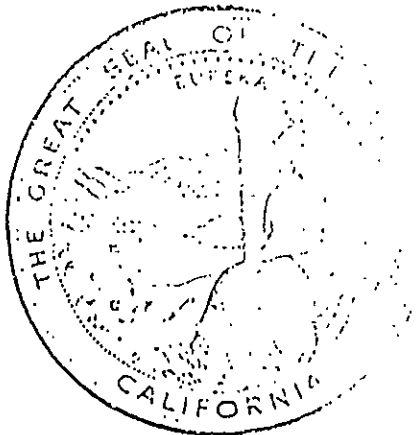
Pursuant to the provisions of Chapter 9 of Division 3 of the Business and Professions Code and the Rules and Regulations of the Contractors State License Board, the Registrar of Contractors does hereby issue this license to:

HERBST ENGINEERING INC

to engage in the business or act in the capacity of a contractor in the following classification(s):
A GENERAL ENGINEERING CONTRACTOR



WITNESS my hand and sealed this
29TH day of DECEMBER 1980.



J. K. Mabrey
Registrar of Contractors

Signature of Licensee

Signature of person who qualified on behalf of the licensee

STATE AND CONSUMER SERVICES AGENCY
DEPARTMENT OF CONSUMER AFFAIRS

STATE OF CALIFORNIA

REAL AND CONSUMER SERVICES AGENCY (CONTRACTORS STATE LICENSE BOARD)

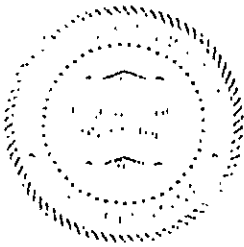


Building Locality



HAZARDOUS SUBSTANCES REMOVAL AND REMEDIAL ACTIONS CERTIFICATION

Pursuant to the provisions of Section 7058.7 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the hazardous substances removal and remedial actions examination.



Qualifier EDWARD GORDON HERBST

License No 503266

Namestyle HERBST ENGINEERING INC

WITNESS my hand and official seal this

24th day of DECEMBER 1991

David R. Phillips
Registrar of Contractors

131,336 (7-91)

This certification is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason.