HK2, Inc. / SEMCO
General Engineering & Environmental Contractors

SITE HEALTH AND SAFETY PLAN

FOR
UNDERGROUND STORAGE TANK
REMOVAL / CLOSURE

JOB SITE ADDRESS:

2124 LIVINGSTON STREET
OAKLAND, CALIFORNIA

PROJECT NUMBER:

97-0276

SEPTEMBER 1997

70 Chemical Way, Redwood City, California, 94063 (650)261-1968, (650) 261-0735 Fax
License No. 719103 (A, B, C57, C61-D40, HAZ, ASB) - Hazardous Substances Certification

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SITE HEALTH AND SAFETY PLAN

1.0 PURPOSE

This Health and Safety Plan has been prepared to minimize environmental risk while working at the site and handling the extracted materials. The following plan will be reviewed by all workers and visitors prior to site entry to prepare for potential on-site emergencies and to minimize adverse health risks to workers.

2.0 SCOPE OF WORK

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

The tanks will be inerted with a minimum of 20 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 below the OSHA approved lower explosive limit. This will be verified with a Gastech 1314. When the necessary level is obtained the tank will be removed and samples will be collected per the approved work plan.

The project is located at 2124 Livingston Street, Oakland, California. The location of the tank is shown in the attached Site Map.

3.0 PERSONNEL RESPONSIBILITIES

3.1 HK2 - Project Manager

Manages field operations
Ensures the Work plan is completed on schedule
Briefs the field teams on their specific assignments.
Participate in the preparation of the Site Safety Plan
Serves as a liaison with public officials.

3.2 HK2 - Site Safety Officer

Implements and enforces the Site Safety Plan
Assures that all on-site personnel have received a copy of the site safety plan, have read it, and understands it.
Conducts frequent inspections of site conditions, facilities, equipment, and activities to determine if the Site Safety Plan is adequate and being followed.
Conducts daily "tailgate" meetings to explain the plan of work for the day and to mention potential hazards of the site.
Ensures that protective clothing and equipment are properly stored and maintained.
Knows emergency procedures, evacuation routes, and notifies local emergency services when necessary.
Notifies the Health and Safety Manager of all accidents and injuries that occur on site

3.3 HK2 - On-Site Personnel

Are required to document their full understanding of the Site Safety Plan before starting work by signing that they have read the Site Safety Plan and understand it
Complies with the Site Safety Plan
Notifies the Site Safety Officer of unsafe conditions.
On-Site employees are held responsible to perform only those tasks for which they believe they are qualified and their opinion are safe.

3.4 Public Agency - Environmental Health

Responsible for approval and inspection procedures, including tank removal, sample procurement and integrity of work plan.

3.5 Public Agency - Fire Department

Responsible for inspections relative to safe procedures and conditions of tank prior to removal.

4.0 SITE HAZARDS, SPECIAL PRECAUTIONS

4.1 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 tank removal, site investigation, or site remediation activities.

4.2. Toxicity Considerations, Petroleum Substances

All individuals should be aware of appropriate health precautions. When high concentrations of petroleum hydrocarbon vapors are inhaled, symptoms of intoxications may result. These symptoms range from simple dizziness to unconsciousness. Human exposure to benzene concentrations in gasoline vapors in excess of 150 ppm may cause headache, weariness, and loss of appetite. Vapors at high concentrations may cause smarting of the eyes and dermatitis. While benzene appears to be poorly absorbed through skin care will be exercised to minimize exposure to these substances. Use soap and water to remove any petroleum products that contact skin.

The recommended threshold limit values are shown in the table below.

Threshold Limit Values

Substance	CALOSHA PEL[1]	ACGIH TLV[2]	NIOSH REL[3]
Benzene	1 ppm	10 ppm	0.1 ppm
Gasoline	300 ppm	300 ppm	-
Heating Oil	Not Applicable	Not Applicable	-

1 CALOSHA PEL -- California Occupational Safety and Health Administration -- Permissible Exposure Limits.
2 ACGIH TLV -- American Conference of Governmental Industrial Hygienists -- Threshold Limit Values.
3 NIOSH REL -- National Institute for Occupational Safety and Health -- Recommended Exposure Limits.

4.3 Flammability and Combustibility Considerations

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.

4.4 Physical Hazards

During the excavation of underground storage tanks, some physical hazards may 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. The excavation will be appropriately marked and barricaded. The classes of physical hazards are shown below.

Slip, trip and fall hazards
Hazards due to heavy equipment
Excessive noise
Heat Stress/Stroke
Electrical

5.0 SAFETY

5.1 Safety Training

The field personnel have received their 40 hours certificates of training as required by OSHA-SARA agencies, with refresher courses as needed.

Site Safety Plan review meetings are held at the beginning of each project. Tailgate safety meetings are held at the beginning of each work day.

5.2 Personnel Protective Equipment

Level D (Normal Level of Protection)
Hard hat (required)
Work boots (required)
Safety Glasses (optional)
Hearing Protection (optional)
Protective gloves (optional)

Action Levels

Half mask dual cartridge respirator with organic vapor cartridges should be available, but, will only be required if airborne concentrations are above action levels. Don respirators if organics in the breathing zone as measured by a PID or OVM exceeds a constant 100 ppm

Level C (Exceeds action level)

Safety Glasses or goggles w/side shields
Hard Hat
Steel Toe Safety Shoes
Half or Full Face Respirator with Organic Vapor Cartridge
Tyvek or poly-Coated Tyvek

5.3 Medical Monitoring

All field personnel must have a physical once each year. The company supplies health insurance to all employees and administers random and mandatory drug and alcohol testing.

5.4 Monitoring Requirements

Air should be monitored every 30 minutes using an organic vapor meter (OVM) or PID while excavating and sampling in contaminated areas. Monitor downwind in the breathing zone. The calibration of the equipment is to be verified with calibration gasses.

5.5 Safety Equipment

As a minimum, the following equipment will be on site:

LEL Meter - Gastech 1314
OVM Meter
OSHA Approved First Aid Kit
40BC Fire Extinguisher
Half Face Respirator with Organic Vapor Cartridges.
Barricades, fences, or construction tape.

5.6 Site Control Measures

Copies of the vicinity map, site layout map, and route to the hospital are provided at the end of this plan. Field personnel are in communication with the office personnel through radio communications.

The on-site safety officer will redirect pedestrian traffic around the work area using temporary fencing, or barricades and warning ribbon. Only authorized personnel will be permitted within 10 ft. of heavy equipment.

5.7 Decontamination Procedures

For PPE

Leave the work area and remove clothing, respirator last. All non-reusable clothing will be disposed of in garbage containers.

Sampling Equipment

All sampling equipment, such as buckets and samplers will be decontaminated after each use by washing in a trisodium phosphate solution followed by tap water rinses. All rinsate used in the decontamination process will be stored on site in steel, DOT-approved drums. Drums will be labeled as to contents, suspected contaminants, date container filled, expected removal date, company name, contact and phone number. Drums will then be sealed and left on-site for subsequent disposal pending analytical results.

6.0 EMERGENCY RESPONSE / CONTINGENCY PLAN

6.1 Command and Control

The on-site safety officer will be responsible for enforcing health and safety procedures issues related to sampling and drilling.

6.2 Emergency Procedures

If an injury occurs, the following action will be taken:

Provide medical attention for the injured person immediately
Notify the Site Safety Officer
Call for medical help. Depending upon the type and severity of the injury, HK2's occupational physician will be notified.
If possible, carefully remove the victim's PPE and begin decontamination procedures.
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 Director and corporate personnel office within 24 hours.
The Site Safety Officer will assume charge during a medical emergency.
Emergency Routes - See attached hospital map.
Emergency contact numbers are shown below.

6.3 Emergency Agencies with Telephone Numbers

Emergency Service	Name/Agency	Telephone
Project Manager	Doug Flaming or _____	(650) 261-1968 Office (650)706-3425 Mobile (650) 377-7852 Pager
Client Contact	Bruce Bauer	(510) 261-5954
Site Contact	Doug Flaming or _____	(650) 261-1968
Site Safety Officer	Doug Flaming or _____	(650) 261-1968
Health & Safety Coordinator	Jim Cox	(650) 261-1968
Ambulance	Dispatch	911
Hospital (See Attached Route Map)	Highland Hospital 1411 E. 31st Street Oakland, CA 94602	(510) 534-8055
Police	Oakland	911
Fire Department	Oakland	911
Environmental Health	Alameda County 1131 Harbor Bay Pkway Alameda, California	(510) 567-6700
Emergency Spills	CalEPA	(650) 974-8131
Worker Health and Safety	OSHA	(800) 648-1003
CHEMTREC	CHEMTREC	(800) 424-9300
Utilities	Underground Service Alert	(800) 227-2600

7.0 CONFINED SPACE ENTRY

7.1 Continually monitor entry conditions to ensure that entry is possible. Be aware of the following conditions that might limit entry.

Extreme heat
Air supply limitations
Other conditions that might create a potential hazard for entrants

7.2 Under no circumstances will entry be permitted into a space if atmospheric tests indicate an atmosphere of >10% or more of the LEL.

7.3 Under no circumstances will be permitted into a space if atmospheric monitoring tests indicate an oxygen enriched atmosphere (i.e. 23.5% oxygen or above).

7.4 Entry into a space with an oxygen deficient atmosphere (195% or less will require that all entrants be outfitted with either portable (SCBA) or fixed (air lines) air supply equipment.

7.5 Entry into spaces containing toxics or the potential to contain toxics will require that all entrants be outfitted in appropriate respiratory protection equipment. Appropriate equipment can be identified by consulting the Material Safety Data Sheet (MSDS), chemical profile or specified by the Health and Safety Officer.

7.6 Weather conditions must be considered prior to issuing entry permits. No entry will be permitted during electrical storms.

7.7 All sources of energy (electrical, mechanical, hydraulic, etc.) except pressure relief valves, must be secured in accordance with lockout/tagout procedures.

7.8 All authorized entrants must wear an approved full-body safety harness. If rescue can be performed horizontally, a safety belt with a D-ring may be worn. Lifelines must be attached to harnesses or safety belt unless obstructions such as heating coils are present that would otherwise hinder rescue efforts.

7.9 Periodic atmospheric monitoring will be performed and recorded. Any significant change in atmospheric conditions will cancel the current entry permit. Atmospheric monitoring will include the checks in the following order: Oxygen, LEL, and Toxics, where applicable.

8.0 SPILL CONTAINMENT PROGRAM

8.1 Hazardous substances and contaminated soil, liquids, and other residues shall be handle, transported, label, and disposed of in an environmentally safe manner.

82. Unlabeled drums and containers shall be considered to contain hazardous substances and handled accordingly until the contents are positively identified and labeled.

8.3 Salvage drums or containers and suitable quantities of proper absorbent shall be kept available and used in areas where spills, leaks or ruptures may occur.

8.4 Underground tank shall be emptied by pumping prior to removal to prevent any releases due to rupture or tipping during tank removal.

8.5 All piping should be drained to prevent any releases from cut or broken pipe ends.

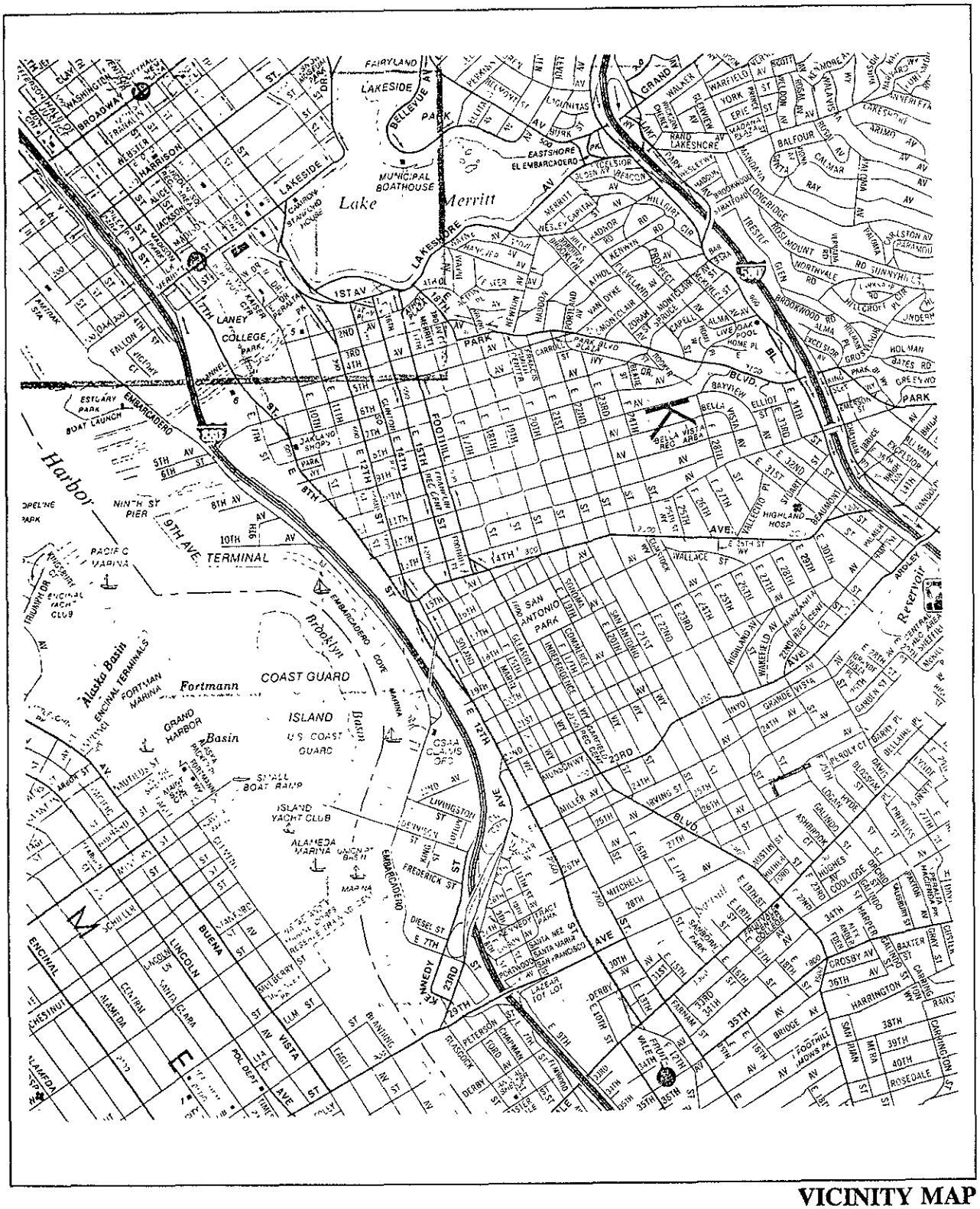
8.6 Where major spills may occur a spill containment structure shall be constructed.

8.7 Fire extinguishing equipment shall be on hand and ready for use to control incipient fires.

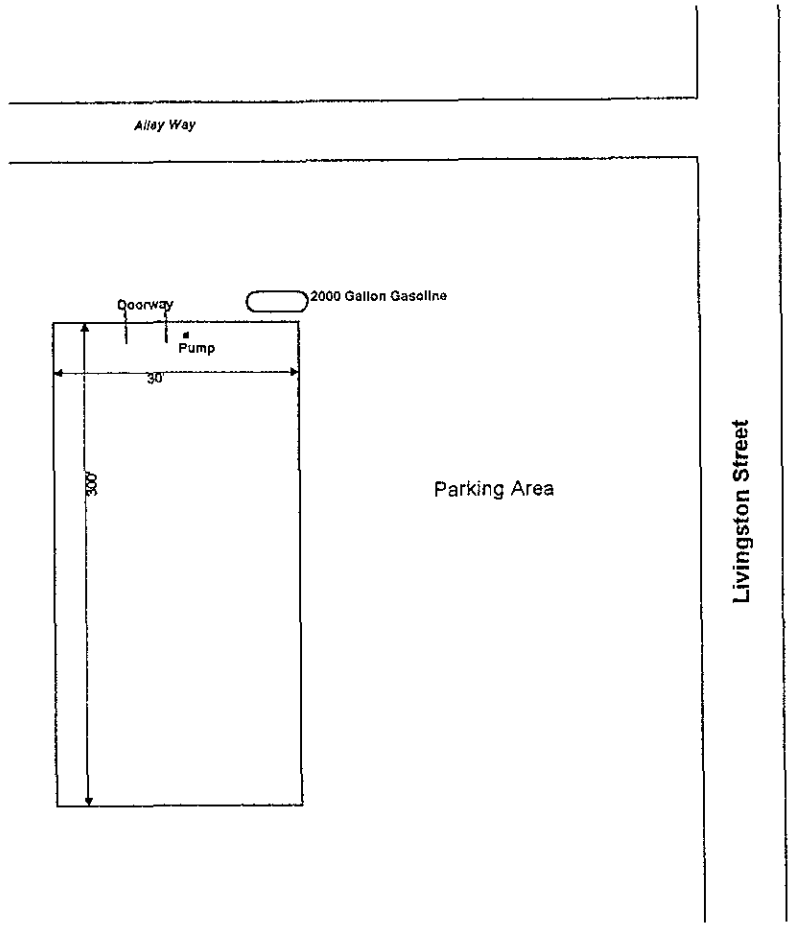
9.0 SIGNATURE PAGE

The following individuals have reviewed the Health and Safety Plan prior to entry to the site.

Printed Name	Signature	Date

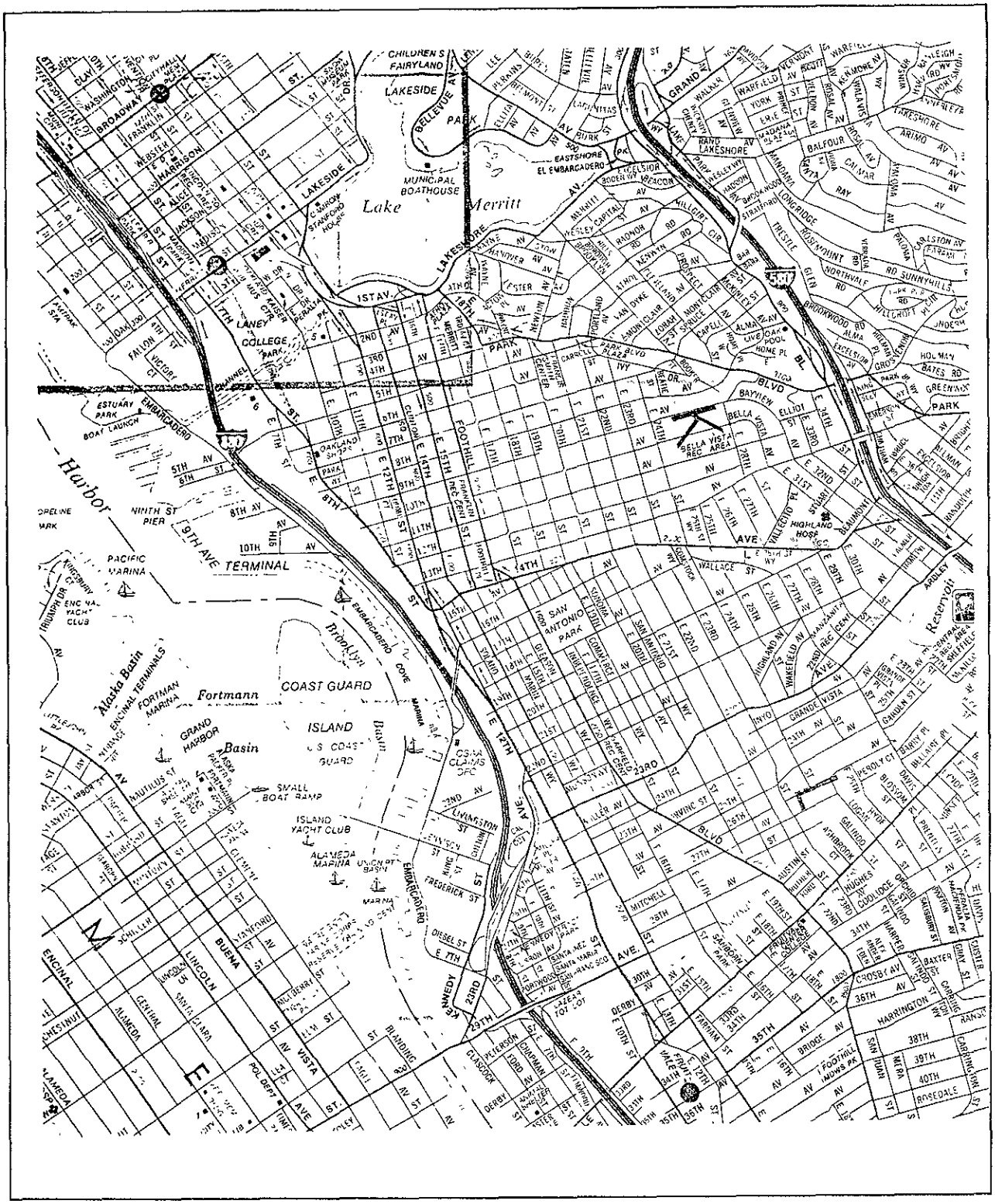


VICINITY MAP



Project Number: 97-0276	2000 Gallon Gasoline
HK2, Inc. / SEMCO 1751 Leslie Street San Mateo, California	West Coast Vending, Inc. 2124 Livingston St. Oakland, California

SITE MAP



ROUTE TO HOSPITAL

State of California

Contractors State License Board

Pursuant to 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:

HK2 INC *dba* SEMCO

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

A - GENERAL ENGINEERING CONTRACTOR
B - GENERAL BUILDING CONTRACTOR
C57 - WELL DRILLING (WATER)
D40 - SERVICE STATION EQUIPMENT AND MAINTENANCE

Witness my hand and seal this day,

February 22, 1996

Issued February 21, 1996

Signature of Licensee

Signature of License Qualifier

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

Registrar of Contractors

719103

License Number

State of California Department of Consumer Affairs

13L-24 (REV. 4-91) 91 82972

AUDIT NO 134951

STATE OF CALIFORNIA
STATE AND CONSUMER SERVICES AGENCY CONTRACTORS STATE LICENSE BOARD

Consumer Affairs

Building Quality

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.

DEPARTMENT OF CONSUMER AFFAIRS
REGISTRAR OF CONTRACTORS
STATE OF CALIFORNIA

Qualifier: STANLEY LOUIS KLEMETSON

License No.: 719103

Business Name: HK2, INC., DBA SEMCO

WITNESS *my hand and official seal this*
21ST *day of* FEBRUARY 1996

Dennis R Ellis
Registrar of Contractors

PH-36 (12/91)

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.

A 6875

State of California

Contractors State License Board

Pursuant to 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:

HK2 INC dba SEMCO

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

ASB - ASBESTOS
HAZ - HAZARDOUS SUBSTANCES REMOVAL

Witness my hand and seal this day,

February 22, 1996

Issued February 21, 1996

Signature of Licensee

Signature of License Qualifier

Registrar of Contractors

719103

License Number

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State of California
CONTRACTORS STATE LICENSE BOARD
ACTIVE LICENSE

License Number 719103 Entity CORP

Business Name HK2 INC DBA SEHCO

Classification(s) A B C87 C61/D40 ASB HAZ

Expiration Date 02/28/98

ACORD. CERTIFICATE OF INSURANCE

DATE (MM/DD/YY) 04/30/97

PRODUCER
Insurance Center of Merced
A Division of InterWest
P. O. Box 2268
Merced, CA 95344

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY A California Comp

COMPANY B

COMPANY C

COMPANY D

INSURED
HK2, Inc.
1741 Leslie Street
San Mateo, CA 94402

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE 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. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
	GENERAL LIABILITY				GENERAL AGGREGATE	$
	COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/OP AGG	$
	CLAIMS MADE / OCCUR				PERSONAL & ADV INJURY	$
	OWNER'S & CONTRACTOR'S PROT				EACH OCCURRENCE	$
					FIRE DAMAGE (Any one fire)	$
					MED EXP (Any one person)	$
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT	$
	ANY AUTO				BODILY INJURY (Per person)	$
	ALL OWNED AUTOS					
	SCHEDULED AUTOS				BODILY INJURY (Per accident)	$
	HIRED AUTOS					
	NON-OWNED AUTOS				PROPERTY DAMAGE	$
	GARAGE LIABILITY				AUTO ONLY-EA ACCIDENT	$
	ANY AUTO				OTHER THAN AUTO ONLY:	
					EACH ACCIDENT	$
					AGGREGATE	$
	EXCESS LIABILITY				EACH OCCURRENCE	$
	UMBRELLA FORM				AGGREGATE	$
	OTHER THAN UMBRELLA FORM					$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	W97D143468	04/05/97	04/05/98	X STATUTORY LIMITS	
	THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: INCL / X EXCL				EACH ACCIDENT	$1,000,000
					DISEASE-POLICY LIMIT	$1,000,000
					DISEASE-EACH EMPLOYEE	$1,000,000
	OTHER					

COPY

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

KLB

ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY) 07-16-97

PRODUCER

BC ENVIRONMENTAL INS BROKERS
4995 GOLDEN FOOTHILL PARKWAY
SUITE 5
EL DORADO HILLS, CA 95762

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY A: LEGION INDEMNITY INSURANCE COMPANY

COMPANY B: SPHERE DRAKE INSURANCE COMPANY

COMPANY C:

COMPANY D:

INSURED

HK2, INC.
1751 LESLIE STREET
SAN MATEO, CA 94402

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE 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. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS MADE [X] OCCUR OWNER'S & CONTRACTOR'S PROT	GL10237987	05-08-97	05-08-98	GENERAL AGGREGATE	$1,000,000
					PRODUCTS - COMP/OP AGG	$1,000,000
					PERSONAL & ADV INJURY	$1,000,000
					EACH OCCURRENCE	$1,000,000
					FIRE DAMAGE (Any one fire)	$ 50,000
					MED EXP (Any one person)	$EXCLUDED
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS				COMBINED SINGLE LIMIT	$
					BODILY INJURY (Per person)	$
					BODILY INJURY (Per accident)	$
					PROPERTY DAMAGE	$
	GARAGE LIABILITY ANY AUTO				AUTO ONLY EA ACCIDENT	$
					OTHER THAN AUTO ONLY.	
					EACH ACCIDENT	$
					AGGREGATE	$
	EXCESS LIABILITY UMBRELLA FORM OTHER THAN UMBRELLA FORM				EACH OCCURRENCE	$
					AGGREGATE	$
						$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: [ ] INCL [ ] EXCL				WC STATUTORY LIMITS / OTHER	
					EL EACH ACCIDENT	$
					EL DISEASE - POLICY LIMIT	$
					EL DISEASE - EA EMPLOYEE	$
B	OTHER PROPERTY	47993	05-08-97	05-08-98		

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

THE CITY OF SAN MATEO, ITS ELECTIVE, APPOINTIVE BOARDS, COMMISSIONS, OFFICERS, AGENTS & EMPLOYEES SHALL BE NAMED AS ADDITIONAL INSURED WITH RESPECT TO GENERAL LIABILITY & PROPERTY COVERAGE ONLY.

CERTIFICATE HOLDER

CANCELLATION

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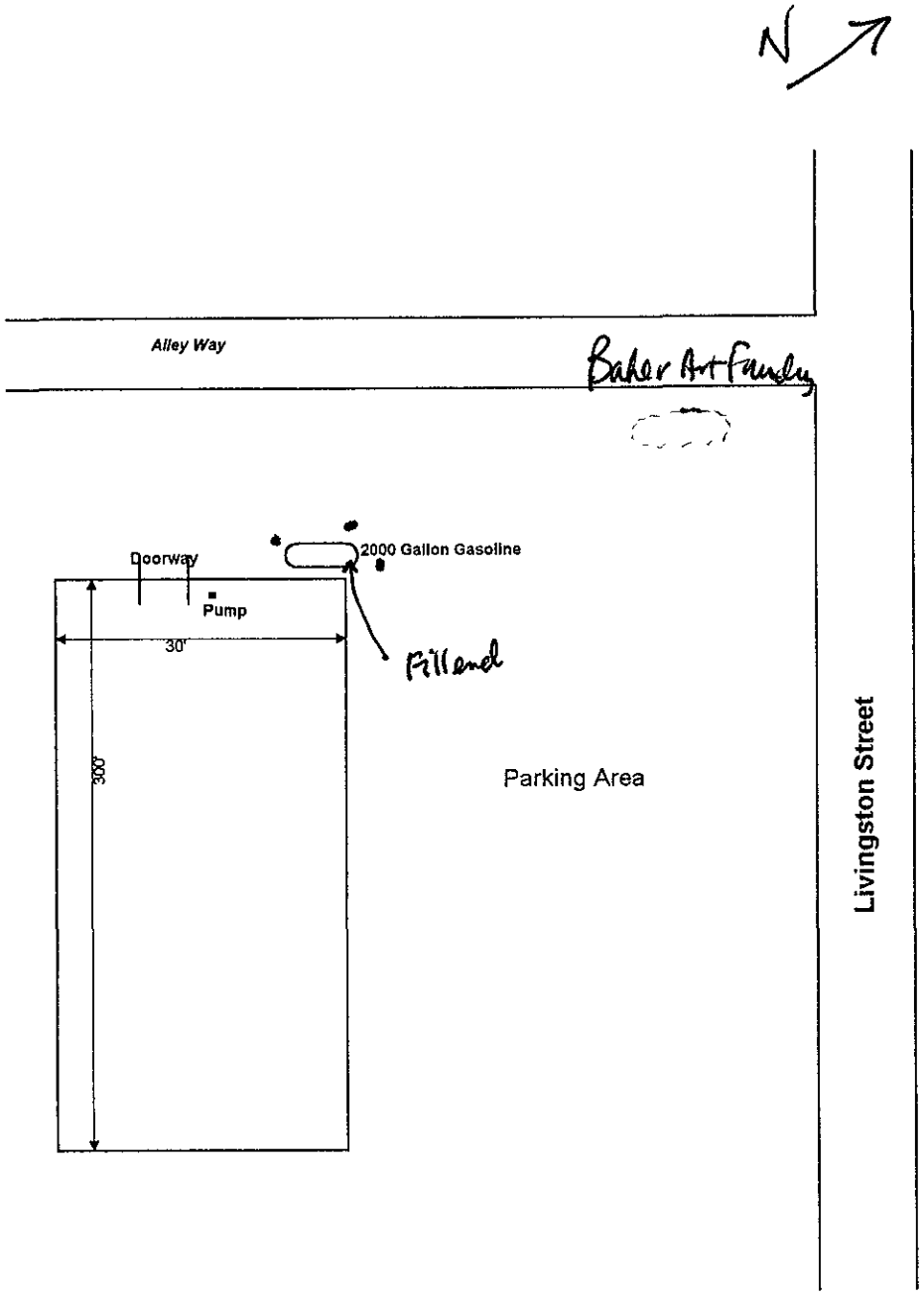
AUTHORIZED REPRESENTATIVE: K Woelwick



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HK2, Inc. / SEMCO 1751 Leslie Street San Mateo, California	West Coast Vending, Inc. 2124 Livingston St. Oakland, California