

Canonie Environmental

Canonie Environmental Services Corp.
7901 Stoneridge Drive
Suite 100
Pleasanton, California 94588
Phone: 510-463-9117
FAX: 510-463-2981

January 10, 1994

91-153-06

Mr. Scott Seery
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Status of Ground Water Monitoring Program
Former Underground Storage Tank Site
16211 East 14th Street
San Leandro, California

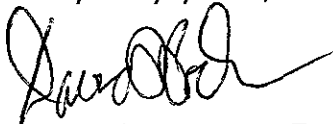
ALCO
HAZMAT
94 JAN 13 PM 12:26

Dear Mr. Seery:

This letter is sent as a reminder that the ground water monitoring program for the Garcia Enterprises, Inc., site at 16211 East 14th Street in San Leandro, California, is on hold temporarily, pending your review of the request for site closure sent to the Alameda County Health Care Services Agency, Department of Environmental Health in a letter dated October 15, 1993. In accordance with this agreement, the December 1993 quarterly sampling round was not performed.

If you have any questions during your review of the request for site closure, please contact me or Jim Babcock at (510) 463-9117.

Very truly yours,



David P. Poole, P.E.
Project Engineer

DPP/hmt

cc: A. Garcia, Garcia Enterprises, Inc.
J. Babcock, Canonie Environmental Services Corp.

Canonie Environmental

93 OCT 26 PM 12:02

October 25, 1993

Canonie Environmental Services Corp.
7901 Stoneridge Drive
Suite 100
Pleasanton, California 94588
Phone: 510-463-9117
FAX: 510-463-2981

91-153-06

Mr. Scott Seery
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

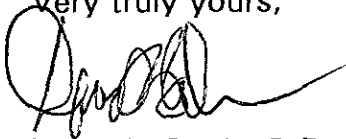
Status of Ground Water Monitoring Program
Former Underground Storage Tank Site
16211 East 14th Street
San Leandro, California

Dear Mr. Seery:

This letter confirms our telephone conversation on October 25, 1993, concerning the Garcia Enterprises, Inc., site at 16211 East 14th Street in San Leandro, California. At your direction, further ground water monitoring will be postponed pending your review of the request for site closure sent to Alameda County Health Care Services Agency, Department of Environmental Health in a letter dated October 15, 1993.

Thank you for your assistance in this matter. If you have any questions during your review of the request for site closure, please contact me or Jim Babcock at (510) 463-9117.

Very truly yours,



David P. Poole, P.E.
Project Engineer

DPP/hmt

cc: A. Garcia, Garcia Enterprises, Inc.
J. Babcock, Canonie Environmental Services Corp.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



EPN

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

STID 3745

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

November 16, 1992

Mr. Anthony Garcia
Garcia Enterprises
16101 E. 14th Street
San Leandro, CA 94578

RE: 16211 E. 14TH STREET, SAN LEANDRO

Dear Mr. Garcia:

Thank you for recently submitting the November 9, 1992 Canonic Environmental Services Corporation (CESC) report documenting the results of the preliminary site assessment (PSA) completed during September 1992. The initial results of the PSA suggest minimal impact to soil and ground water in proximity to the former underground storage tanks.

At this time, please adhere to the following limited ground water sampling, monitoring, and reporting schedules:

- o Ground water elevations and gradient are to be determined quarterly
- o Ground water samples are to be collected and analyzed quarterly for BTEX, TPH-G and TPH-D.
- o Summary reports are also to be submitted quarterly until this site is eligible for closure. Please reference the February 7, 1992 correspondence from this office for more detailed information regarding submittal dates and report scope.

Please call me at 510/271-4530 should you have any questions.

Sincerely,


Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Env. Health
Gil Jensen, Alameda County District Attorney's Office
John Jang, RWQCB
Jim Ferdinand, Eden Consolidated Fire District
Jim Babcock, Canonic Environmental Services Corp.
Edgar Howell / Files

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

April 13, 1992

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Mr. James Babcock, Ph.D.
Canonie Environmental Services Corporation
7901 Stoneridge Drive, Suite 100
Pleasanton, CA 94588

RE: GARCIA ENTERPRISES, 16211 E. 14TH STREET, SAN LEANDRO;
PRELIMINARY SITE ASSESSMENT WORK PLAN REVIEW COMMENTS

Dear Dr. Babcock:

The Department is in receipt and has completed review of the March 1992 Canonie Environmental Services Corporation (CESC) preliminary site assessment (PSA) work plan for the referenced site, as submitted under CESC cover dated March 20, 1992. Review of this work plan revealed sections requiring modification of work scope or clarification. Following is a summary of those areas requiring a response:

- ✓ 1) All work must be performed under the direction of a California-registered geologist or civil engineer with appropriate environmental assessment background. Please submit a statement of qualifications for the registered lead professional overseeing this assessment. All future reports and proposals must be submitted under this person's signature.
- ✓ 2) Review of ground water gradient information generated between June 1989 and September 1991 for the Unocal station located at 15803 E. 14th Street, approximately 1000 feet northwest of the subject site, reveals that gradients have fluctuated as much as 180°, from SW to NE, during the study period. The latest report indicates flow was to the NW during September 1991.

Determination of an appropriate location for a single well at this site is not possible in light of such apparent, marked local gradient shifts, particularly when there is a requirement for this well to be located in the confirmed downgradient position from the tank pit. Please submit plans for alternative well locations to satisfy this requirement.

- 3) Soil samples must also be collected at any significant changes in lithology, and at the soil/water interface during boring advancement.

Dr. Babcock
RE: Garcia Enterprises, 16211 E. 14th Street, San Leandro
April 13, 1992
Page 2 of 2

- 4) Please describe criteria for evaluating adequacy of well development.
- 5) Please describe plans for characterizing and disposing of soil cuttings, and well development and purge water.
- 6) Describe well surveying plans. Wells must be surveyed to an established benchmark to an accuracy of 0.01 foot.
- 7) Describe water level measurement method.
- 8) Describe method for measuring free product, and observation of sheen and odor. Such must occur prior to well purging.
- 9) Describe well purging procedures. Well purging is to occur immediately prior to sample collection (not several days beforehand).
- 10) Describe water sample collection protocol. Provide a sampling quality assurance/quality control (QA/QC) plan.
- 11) Water analysis for BTEX should be EPA Method 602, not 601 as stated in text.
- 12) Provide a Site Safety Plan.

*OK, except
Workman's Comp
certificate has expired*

Attached please find a copy of the San Francisco Bay RWQCB's August 20, 1991 Appendix A summarizing the technical scope of site assessment proposals and reports. Please refer to this document in context with the Tri-Regional Board Staff "Recommendations" when responding to the items listed above.

Please respond in writing by April 30, 1992. Should you have any questions feel free to contact me at 510/271-4530.

Sincerely,


Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

attachment

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Rich Heitt, RWQCB
Howard Hatayama, DTSC
Jim Ferdinand, Eden Consolidated Fire District
Anthony Garcia, Garcia Enterprises

WATER RESOURCES CONTROL BOARD
DIVISION OF WATER QUALITY - UST CLEANUP PROGRAM
SITE SPECIFIC QUARTERLY REPORT
01/01/92 THROUGH 03/31/92

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 8006619
StID : 3745
SITE NAME: Garcia Enterprises DATE REPORTED : 07/17/91
ADDRESS : 16211 E. - 14th St. DATE CONFIRMED: 07/17/91
CITY/ZIP : San Leandro 94578 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: G	CONTRACT STATUS: 3	EMERGENCY RESP:
RP SEARCH: S		DATE COMPLETED: 03/04/92
PRELIMINARY ASMNT:	DATE UNDERWAY:	DATE COMPLETED:
REM INVESTIGATION:	DATE UNDERWAY:	DATE COMPLETED:
REMEDIAL ACTION:	DATE UNDERWAY:	DATE COMPLETED:
POST REMED ACT MON:	DATE UNDERWAY:	DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 03/04/92
LUFT FIELD MANUAL CONSID: 3,S,C,A
CASE CLOSED: DATE CASE CLOSED:
DATE EXCAVATION STARTED : 07/17/91 REMEDIAL ACTIONS TAKEN: NT

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Anthony Garcia
COMPANY NAME: Garcia Enterprises
ADDRESS: 16101 E. -14th Street
CITY/STATE: Oakland, CA 94578

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
--	--	--

REPORT DATE 02/07/92	CASE #	SIGNED: <i>[Signature]</i> DATE: 2/10/92
-------------------------	--------	--

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT SCOTT SEERY	PHONE (510) 271-4320	SIGNATURE <i>[Signature]</i>	
	REPRESENTING <input checked="" type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME ALAMEDA CO. ENV. HEALTH, HAZ MAT		
	ADDRESS 80 SWAN WAY, Rm. 200 OAKLAND CA 94621			

RESPONSIBLE PARTY	NAME GARCIA ENTERPRISES <input type="checkbox"/> UNKNOWN	CONTACT PERSON ANTHONY GARCIA	PHONE (510) 351-6161
	ADDRESS 1601 E. 14th STREET, SAN LEANDRO CA 94578		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) TOWN + COUNTRY LIQUORS	OPERATOR NA	PHONE ()	
	ADDRESS 16211 E. 14th STREET, SAN LEANDRO ALAMEDA 94578			
	CROSS STREET NA			

IMPLEMENTING AGENCIES	LOCAL AGENCY ALAMEDA CO. ENV. HEALTH	CONTACT PERSON SCOTT SEERY	PHONE (510) 271-4320
	REGIONAL BOARD SAN FRANCISCO BAY	CONTACT PERSON LESTER FELDMAN	PHONE (510) 464-1255

SUBSTANCES INVOLVED	(1) NAME GASOLINE	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2) NAME DIESEL	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED 02/07/91	HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER	
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER	
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE		

SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER
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CASE TYPE	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)
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CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input checked="" type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN PENDING SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY
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REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input checked="" type="checkbox"/> OTHER (OT) UNKNOWN AT THIS TIME
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Two (2) 10,000 gal UST removed 7/91. Welded seams/sides of tanks corroded. No through-going holes noted. Minor soil contamination at shallow GW interface. GW is impacted as shown in final closure report. Approx. 1600 gallons pumped from pit after closure. PSA proposal pending.

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

February 7, 1992

Mr. Anthony Garcia
Garcia Enterprises, Inc.
16101 East 14th Street
San Leandro, CA 94578

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

RE: **PRELIMINARY SITE ASSESSMENT PROPOSAL REQUEST, 16211 E. 14TH STREET, SAN LEANDRO**

Dear Mr. Garcia:

The Alameda County Environmental Health Department, Hazardous Materials Division, has completed review of the September 1991 Canonie Environmental Services Corporation (CESC) underground storage tank closure report, as submitted under CESC cover dated September 10, 1991. This report documents the results of activities associated with the removal of two (2) 10,000 gallon underground storage tanks (UST) and associated appurtenances from the referenced site on or around July 17, 1991.

Observations made of the USTs following their removal indicate that both exhibited significant corrosion pitting and scaling, as did sections of the removed product piping. Corrosion was most evident on the south end of east UST, and along the welded seams running around the circumference of the west UST. Although this corrosion was up to several millimeters deep in places, no through-going holes were observed.

Because ground water welled into the excavation, soil samples were collected from the pit side walls, near the saturated/unsaturated zone interface. Soil samples were also collected from below the product piping runs and dispensers. In addition, an appropriate number of water samples were also collected. All samples were analyzed for gasoline and diesel fuel constituents. No free product or sheen was observed on ground water. Soil samples did not exhibit odors characteristic of gasoline. However, the soil sample collected from the southeast corner of the pit sidewall did exhibit an odor reminiscent of weathered product.

Soil samples collected from the UST pit sidewalls exhibited concentrations of total petroleum hydrocarbons as diesel (TPH-D) ranging from nondetectable (ND) to 15 parts per million (ppm), as found in sample NE-9.5', collected from the northeastern sidewall at a depth of 9.5 feet below grade. TPH as gasoline (TPH-G) and other fuel constituents, including benzene and organolead, were ND. However, water sample WS-1 did exhibit detectable levels of TPH-D/G, benzene, toluene, ethylbenzene, xylene (BTEX), and total lead, at concentrations of 430, 3400, 33, 84, 20 and 21 parts per billion (ppb), respectively.

Mr. Anthony Garcia
RE: 16211 E. 14th Street, San Leandro
February 7, 1992
Page 2 of 4

The San Francisco Bay Regional Water Quality Control Board (RWQCB) requires additional environmental investigations to be performed at those sites where fuel hydrocarbon compounds are detected in soil samples collected at or below the seasonal high ground water level. Should ground water exhibit detectable concentrations of these same compounds, an investigation is further warranted.

Ground water and soil at or below the seasonal high water level have been impacted at the subject site. Hence, further investigation is warranted. The purpose of this investigation is to determine the lateral and vertical extent, and severity, of latent soil and ground water contamination which may have resulted from the apparent unauthorized release at this site.

Such an investigation shall be in the form of a **Preliminary Site Assessment**, or PSA. The information gathered by the PSA will be used to determine an appropriate course of action to remediate the site, if deemed necessary. The PSA must be conducted in accordance with the RWQCB Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks. The major elements of such an investigation are summarized in the attached Appendix A.

In order to proceed with a site investigation, you should obtain professional services of a reputable environmental consultant. Your responsibility is to have the consultant submit for review a proposal outlining planned activities pertinent to meeting the criteria broadly outlined in this letter and the attached Appendix A.

This Department will oversee the assessment and remediation of your site. Our oversight will include the review of and comment on work proposals and technical guidance on appropriate investigative approaches and monitoring schedules. The issuance of well drilling permits, however, will be through the Alameda County Flood Control and Water Conservation District, Zone 7, in Pleasanton. The RWQCB may choose to take over as lead agency if it is determined following the completion of the initial assessment that there has been a substantial impact to ground water.

The PSA proposal is due within 45 days of the date of this letter, or by **March 23, 1992**. Once the proposal is approved, field work should commence within 60 days. A report must be submitted within 45 days after the completion of this phase of work at the site. Subsequent reports are to be submitted quarterly until this site qualifies for final RWQCB "sign off." Such quarterly reports are due the first day of the second month of each subsequent quarter (i.e., May 1, August 1, November 1, and February 1).

Mr. Anthony Garcia
RE: 16211 E. 14th Street, San Leandro
February 7, 1992
Page 3 of 4

The referenced initial and quarterly reports must describe the status of the investigation and must include, among others, the following elements:

- o Details and results of all work performed during the designated period of time: records of field observations and data, boring and well construction logs, water level data, chain-of-custody forms, laboratory results for all samples collected and analyzed, tabulations of free product thicknesses and dissolved fractions, etc.
- o Status of ground water contamination characterization
- o Interpretation of results: water level contour maps showing gradients, free and dissolved product plume definition maps for each target component, geologic cross sections, etc.
- o Recommendations or plans for additional investigative work of remediation

All reports and proposals must be submitted under seal of a California-Registered Geologist, -Certified Engineering Geologist, or -Registered Civil Engineer. Please include a statement of qualifications for each lead professional involved with this project.

Please be advised that this is a formal request for technical reports pursuant to California Water Code Section 13267 (b). Failure to respond or a late response could result in the referral of this case to the RWQCB for enforcement, possibly subjecting the responsible party to civil penalties to a maximum of \$1,000 per day. Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or the RWQCB.

Should you have any questions about the content of this letter, please call me at 510/271-4320.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

enclosure

Mr. Anthony Garcia
RE: 16211 E. 14th Street, San Leandro
February 7, 1992
Page 4 of 4

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Lester Feldman, RWQCB
Howard Hatayama, DHS
Jim Ferdinand, Eden Consolidated Fire District

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

white -env.health yellow -facility pink -files

Hazardous Materials Inspection Form

II, III

(Garcia Enterprises)

Site ID # Site Name Town + Country Liquors Today's Date 7/17/91

Site Address 16211 E. 14th St.

City San Leandro Zip 94578 Phone

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
II. Business Plans, Acute Hazardous Materials
III. Underground Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments: arrived at 10:00 On-site to witness closure of two (2) 10,000 gal USTs and associated piping/dispensers. On-site were the property owner, Mr. Garcia, Brian Wetzstein, the Canone project manager and Ass. Fire Marshall, Edward Landini, of Eden Consolidated Fire Dist.

Upon my arrival, apparent GW was seen welling into the UST pit, near the bottom of the two USTs. A GW sample will be required in addition to soil samples. Backfill material along the center flanks of the two tanks is discolored green, possibly from HC contamination

The east tank does not show evidence of through-going holes; however, the south end of this tank does show evidence of pronounced pitting and scaling. The west tank is in a similar state as the east tank. However the vertical seams which run along the tank's circumference show signs of severe corrosion in areas approximately waist level. The steel product piping shows severe signs of corrosion as well, particularly in the last section of the piping runs as they approach the UST pit

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
2. Bus. Plan Stds. 25503(b)
3. RR Cars > 30 days 25503.7
4. Inventory Information 25504(a)
5. Inventory Complete 2730
6. Emergency Response 25504(b)
7. Training 25504(c)
8. Deficiency 25505(a)
9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(c)
11. Form Complete 25533(b)
12. RMPP Contents 25534(c)
13. Implement Sch. Req'd? (Y/N)
14. OffSite Conseq. Assess. 25524(c)
15. Probable Risk Assessment 25534(d)
16. Persons Responsible 25534(g)
17. Certification 25534(f)
18. Exemption Request? (Y/N) 25536(b)
19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- 1. Permit Application 25284 (H&S)
2. Pipeline Leak Detection 25292 (H&S)
3. Records Maintenance 2712
4. Release Report 2651
5. Closure Plans 2670

- 6. Method
1) Monthly Test
2) Daily Vadose Semi-annual groundwater One time soils
3) Daily Vadose One time soils Annual tank test
4) Monthly Groundwater One time soils
5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/groundwater mon.
6) Daily Inventory Annual tank testing Cont pipe leak det
7) Weekly Tank Gauge Annual tank testing
8) Annual Tank Testing Daily Inventory
9) Other

- 7. Precs Tank Test 2643
Date:
8. Inventory Rec. 2644
9. Soil Testing . 2646
10. Ground Water. 2647

- 11. Monitor Plan 2632
12. Access. Secure 2634
13. Plans Submit 2711
Date:
14. As Built 2635
Date:

Contact: Brian Wetzstein

Title: project supervisor

Signature: Brian Wetzstein

Inspector: S. Seery

Signature: [Signature]

II, III

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
Oakland, CA 94621
(415) 271-4320

Hazardous Materials Inspection Form

(Garcia Enterprises)

II, III

Site ID # _____ Site Name Town Country Liquors Today's Date 7/17/91

Site Address 16211 E. 14th St

City San Leandro Zip 94578 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

Three (3) samples were collected from the piping trench, and one from the dispenser area. Water samples (2 liter, 1 VOA) were collected using the track hoe bucket to lift water from the hole.

Left site @ 2:30. Contractor is going to excavate backfill and call Dept. when ready to sample.

Arrived back on-site @ ~ 5:00. Sidewall samples are being collected from ~~the~~ four sites along the long axes of the tank pit, near each corner.

A bucket of soil was excavated from the center of the pit for observation; The native material in this particular bucket appeared to be a gravel deposit, possibly a lens. No sample was collected from this.

None of the soil samples exhibited odors characteristic of gasoline. However, that sample collected from the SE corner did faintly have the odor of old product. II, III

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OnSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(i)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- General
- 1. Permit Application 25284 (H&S)
 - 2. Pipeline Leak Detection 25292 (H&S)
 - 3. Records Maintenance 2712
 - 4. Release Report 2651
 - 5. Closure Plans 2670

- Monitoring for Existing Tanks
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose Semi-annual groundwater One time soils
 - 3) Daily Vadose One time soils Annual tank test
 - 4) Monthly Gndwater One time soils
 - 5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/gndwater mon.
 - 6) Daily Inventory Annual tank testing Cont pipe leak det
 - 7) Weekly Tank Gauge Annual tank tising
 - 8) Annual Tank Testing Daily Inventory
 - 9) Other _____

- 7. Precs Tank Test Date: _____ 2643
- 8. Inventory Rec. 2644
- 9. Soil Testing . 2646
- 10. Ground Water. 2647

- New Tanks
- 11. Monitor Plan 2632
 - 12. Access. Secure 2634
 - 13. Plans Submit Date: _____ 2711
 - 14. As Built Date: _____ 2635

Rev 6/88

Contact: Brian Wetzstein

Title: project supervisor

Signature: Brian Wetzstein

Inspector: _____

Signature: _____

S. [Signature]

Canonie Environmental

June 17, 1991

91 JUN 19 11:48

Canonie Environmental Services Corp
7901 Stoneridge Drive
Suite 100
Pleasanton, California 94588
Phone: 415-463-9117
FAX: 415-463-2981

91-153-01

Scott Cery
Hazardous Materials Specialist
Alameda County Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

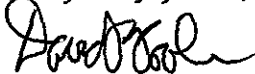
Underground Storage Tank Removal
Garcia Enterprises Site
San Leandro, California

Dear Mr. Cery:

This letter is sent as notification of intent to remove two underground storage tanks at the Garcia Enterprises site located at 16211 East 14th Street in San Leandro, California. In accordance with a letter from Alameda County Department of Environmental Health (County) to Mr. Anthony Garcia of Garcia Enterprises dated April 25, 1991, a tank closure plan will be submitted to the County for review. Canonie Environmental Services Corp. has been retained by Garcia Enterprises for preparation of the tank closure plan and removal of the underground storage tanks.

If you have any questions concerning this letter, please call me at (415)463-9117.

Very truly yours,



David P. Poole
Assistant Project Engineer

DPP/rr

cc: A. Garcia, Garcia Enterprises
B. Wetzsteon, Canonie Environmental Services Corp.

Canonie Environmental

Canonie Environmental Services Corp.
7901 Stoneridge Drive
Suite 100
Pleasanton, California 94588

Phone: 415-463-9117
FAX: 415-463-2981

June 25, 1991

91-153-01

Scott Cery
Hazardous Materials Specialist
Alameda County Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

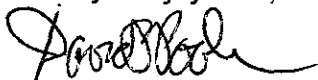
Transmittal
Underground Storage Tank Closure Plan
Garcia Enterprises, Inc. Site
San Leandro, California

Dear Mr. Cery:

Please find the enclosed Underground Storage Tank Closure Plan (Plan) prepared by Canonie Environmental Services Corp. for the Garcia Enterprises, Inc. site located at 16211 East 14th Street in San Leandro, California. The Plan has been prepared in accordance with Alameda County Department of Environmental Health (County) guidelines for the removal of two underground storage tanks located at the site. As specified in the County guidelines, the Plan has been submitted in triplicate along with a Health and Safety Plan, Site Plan, Certificate of Insurance copy, and deposit fee for County review.

If you have any questions concerning this submittal, please call me at (415)463-9117.

Very truly yours,



David P. Poole
Assistant Project Engineer

DPP/dpp

cc: A. Garcia, Garcia Enterprises
B. Wetzsteon, Canonie Environmental Services Corp.

**ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320**

Project Specialist (print) Scott Seery

SOS
7-5-91 ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by the Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction.

One copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any change or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws.

Notify this Department at least 48 hours prior to the following required inspections:

- 7-17-91 Removal of Tank and Piping
- 7-17-91 Sampling
- Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Business Name Town and Country Liquors (Tenant)
Business Owner _____
 2. Site Address 16211 East 14th Street
City San Leandro, CA Zip 94578 Phone (415)351-6161
 3. Mailing Address 16101 East 14th Street
City San Leandro, CA Zip 94578 Phone (415)351-6161
 4. Land Owner Garcia Enterprises, Inc.
Address 16101 East 14th Street City, State San Leandro, CA Zip 94578
 5. Generator name under which tank will be manifested _____
Garcia Enterprises, Inc.
- EPA I.D. No. under which tank will be manifested CAC000609240

6. Contractor Canonie Environmental Services Corp.
Address 7901 Stoneridge Drive, Suite 100
City Pleasanton, CA 94588 Phone (415)463-9117
License Type Contractors, A, HAZ ID# 510801

7. Consultant _____
Address _____
City _____ Phone _____

8. Contact Person for Investigation
Name Brian Wetzsteen Title Project Supervisor
Phone _____

9. Number of tanks being closed under this plan 2
Length of piping being removed under this plan 100 feet
Total number of tanks at facility 2

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

**** Underground tanks are hazardous waste and must be handled **
as hazardous waste**

a) Product/Residual Sludge/Rinsate Transporter

Name Erickson, Inc. EPA I.D. No. CAD009466392
Hauler License No. 0019 License Exp. Date May 31, 1992
Address 255 Parr Boulevard
City Richmond State CA Zip 94801

b) Product/Residual Sludge/Rinsate Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD009466392
Address 255 Parr Boulevard
City Richmond State CA Zip 94801

c) Tank and Piping Transporter

Name Erickson, Inc. EPA I.D. No. CAD009466392
Hauler License No. 0019 License Exp. Date May 31, 1992
Address 255 Parr Boulevard
City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD009466392
Address 255 Parr Boulevard
City Richmond State CA Zip 94801

11. Experienced Sample Collector

Name David Poole
Company Canonie Environmental Services Corp.
Address 7901 Stoneridge Drive, Suite 100
City Pleasanton State CA Zip 94588 Phone (415)463-9117

12. Laboratory

Name Weston Analytical
Address 212 Frank West Circle, Suite A
City Stockton State CA Zip 95206
State Certification No. 1354

13. Have tanks or pipes leaked in the past? Yes [] No [X]

If yes, describe. _____

14. Describe methods to be used for rendering tank inert

A minimum of two pounds of dry ice per 100 gallons of tank volume will be added to the tanks. This procedure will continue until organic vapors are less than ten percent of the lower explosive limit of methane.

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
5,000 gallons (estimated) 2 tanks	Service in conjunction with car wash (gasoline or diesel). Operating 1954 through 1964.	Soil - one sample at each end of the tank. Soil - along tank piping. Soil - under pump island.	Soil samples to be taken in native soil at a maximum of two feet below native soil/backfill interface. Soil samples to be taken in native soil, one per 20 feet of pipe. Soil sample taken in native soil, one under each pump.

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated)	Sampling Plan

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
TPH-G	EPA 5030	CA LUFT	1.0 ppm
TPH-D		CA LUFT	1.0 ppm
BTEX		EPA 8020	0.005 ppm
Organic lead		CA LUFT	0.5 ppm

17. Submit Site Health and Safety Plan (See Instructions)

18. Submit Worker's Compensation Certificate copy

Name of Insurer Planet Insurance Company

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) Brian L. Wetzsteon

Signature Brian Wetzsteon

Date 6-19-91

Signature of Site Owner or Operator

Name (please type) Anthony J. Garcia

Signature Anthony J. Garcia

Date June 25, 1991

INSTRUCTIONS

General Instructions

- * Three (3) copies of this plan plus attachments and deposit must be submitted to this Department.
- * Any cutting into tanks requires local fire department approval.
- * One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.

Item Specific Instructions

2. SITE ADDRESS
Address at which closure is taking place.
5. EPA I.D. NO. under which the tanks will be manifested
EPA I.D. numbers may be obtained from the State Department of Health Services, 916/324-1781.
6. CONTRACTOR
Prime contractor for the project.
10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
 - a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
 - c) Tanks must be hauled as hazardous waste.
 - d) This is the place where tanks will be taken for cleaning.
15. TANK HISTORY AND SAMPLING INFORMATION
Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

17. SITE HEALTH AND SAFETY PLAN

A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer;
- b) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;
- c) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;
- d) Frequency and types of air and personnel monitoring to be used - along with the environmental sampling techniques and instrumentation. Include instrumentation maintenance and calibration methods and frequencies;
- e) Specific personal protective equipment and procedures to be used by workers to protect themselves from the identified hazards. Also state the contaminant concentrations in air - or other conditions - which will trigger changes in work or work habits to ensure workers are not exposed to high levels of hazardous chemicals or to other unsafe conditions;
- f) Confined space entry procedures (if applicable);
- g) Decontamination procedures;
- h) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, security guards, etc.);
- i) Spill containment and emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;
- j) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and
- k) Page for employees to sign indicating they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

NOTE: These requirements are excerpts from 29 CFR Part 1910.120, Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all Structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers, water lines, utilities;
- h) Existing wells (drinking, monitoring, etc.);
- i) Depth to ground water; and
- j) All existing tanks and piping in addition to the ones being pulled.

20. DEPOSIT

A deposit, payable to Alameda County for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from our office and from the San Francisco Bay Regional Water Quality Control Board (415/464-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

22. TANK CLOSURE REPORT

The tank closure report should contain the following information:

- a) General description of the closure activities;
- b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

- c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;
- d) Description of sampling methods;
- e) Description of any remedial measures conducted at the time of tank removal;
- f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;
- g) Chain of custody records;
- h) Copies of signed laboratory reports;
- i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and
- j) Tabulation of the volume and final destination of all non-manifested contaminated soil hauled offsite.

TABLE #2
RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR
UNDERGROUND TANK LEAKS

<u>HYDROCARBON LEAK</u>	<u>SOIL ANALYSIS</u>	<u>WATER ANALYSIS</u>
Unknown Fuel	TPH G GCFID(5030)	TPH G GCFID(5030)
	TPH D GCFID(3550)	TPH D GCFID(3510)
	BTX&E 8020 or 8240	BTX&E 602, 624 or
	TPH AND BTX&E 8260	8260
Leaded Gas	TPH G GCFID(5030)	TPH G GCFID(5030)
	BTX&E 8020 OR 8240	BTX&E 602 or 624
	TPH AND BTX&E 8260	TOTAL LEAD AA
	TOTAL LEAD AA	
	-----Optional-----	
	TEL DHS-LUFT	TEL DHS-LUFT
	EDB DHS-AB1803	EDB DHS-AB1803
Unleaded Gas	TPH G GCFID(5030)	TPH G GCFID(5030)
	BTX&E 8020 or 8240	BTX&E 602, 624 or
	TPH AND BTX&E 8260	8260
Diesel, Jet Fuel and Kerosene	TPH D GCFID(3550)	TPH D GCFID(3510)
	BTX&E 8020 or 8240	BTX&E 602, 624 or
	TPH AND BTX&E 8260	8260
Fuel/Heating Oil	TPH D GCFID(3550)	TPH D GCFID(3510)
	BTX&E 8020 or 8240	BTX&E 602, 624 or
	TPH AND BTX&E 8260	8260
Chlorinated Solvents	CL HC 8010 or 8240	CL HC 601 or 624
	BTX&E 8020 or 8240	BTX&E 602 or 624
	CL HC AND BTX&E 8260	CL HC AND BTX&E 8260
Non-chlorinated Solvents	TPH D GCFID(3550)	TPH D GCFID(3510)
	BTX&E 8020 or 8240	BTX&E 602 or 624
	TPH AND BTX&E 8260	TPH and BTX&E 8260
Waste and Used Oil or Unknown (All analyses must be completed and submitted)	TPH G GCFID(5030)	TPH G GCFID(5030)
	TPH D GCFID(3550)	TPH D GCFID(3510)
	TPH AND BTX&E 8260	
	O & G 5520 D & F	O & G 5520 C & F
	BTX&E 8020 or 8240	BTX&E 602, 624 or
	8260	
	CL HC 8010 or 8240	CL HC 601 or 624
	ICAP or AA TO DETECT METALS: Cd, Cr, Pb, Zn, Ni	
	METHOD 8270 FOR SOIL OR WATER TO DETECT:	
	PCB*	PCB
	PCP*	PCP
	PNA	PNA
	CREOSOTE	CREOSOTE

* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary
Evaluation and Investigation of Underground Tank Sites,
10 August 1990

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.
2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GC/FID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).
8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. "Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.
9. PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:

	<u>SOIL PPM</u>	<u>WATER PPB</u>
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
O & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE	MODIFIED PROTOCOL
≤ 10 ppm (42%)	≤ 10 ppm (10%)
≤ 5 ppm (19%)	≤ 5 ppm (21%)
≤ 1 ppm (35%)	≤ 1 ppm (60%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

- LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chromatogram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

- REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal

Regional Board Staff Recommendations
Preliminary Site Investigation

10 August 1990

from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

SDS
7-5-91
ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by the Department are to ensure compliance with State and local laws. The project presented herein is now subject to all other state and local laws and regulations for construction. A copy of these regulations must be on the job site available to all contractors and craftsmen involved in the removal. Any change or alterations of these plans and specifications must be submitted to the Department and to the Field Office Inspection Department to determine if such changes meet the requirements of State and local laws. This Department at least 48 hours prior to any required inspections:

- _____ Removal of Tank and Piping
- _____ Sampling
- _____ Final Inspection

Insurance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THE FINE / FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

June 1991

91-153

CANONIE ENVIRONMENTAL SERVICES CORP.
PROJECT HEALTH & SAFETY PLAN
UNDERGROUND STORAGE TANK REMOVAL

Garcia Enterprises Site
16211 East 14th Street
San Leandro, California

Adopted By: Brian Webster
Project Manager

Date: 6-25-91

Adopted By: [Signature]
Project Site Safety Officer

Date: 6-25-91

Adopted By: SEE ATTACHED
Regional Health & Safety Officer

Date: _____

June 1991

91-153

**CANONIE ENVIRONMENTAL SERVICES CORP.
PROJECT HEALTH & SAFETY PLAN
UNDERGROUND STORAGE TANK REMOVAL**

**Garcia Enterprises Site
16211 East 14th Street
San Leandro, California**

Adopted By: _____
Project Manager

Date: _____

Adopted By: _____
Project Site Safety Officer

Date: _____

Adopted By: _____
Regional Health & Safety Officer

Date: 6-27-91

PROJECT INFORMATION

Client Name:

Project Number: 91-153

Mr. Anthony J. Garcia
Garcia Enterprises, Inc.
16115 East 14th Street
San Leandro, CA 94578

Site Tenant:

Town and Country Liquors

Site Address:

16211 East 14th Street
San Leandro, California

Directions to the Site:

From Highway 580 take the 164th Avenue exit. Go southwest on 164th Avenue to East 14th Street. Turn right on East 14th Street, site is located two blocks down on the left hand side of the street (Figure 1).

Project Duration:

Approximately 9 working days.

PROJECT HEALTH AND SAFETY PLAN
UNDERGROUND STORAGE TANK REMOVAL
GARCIA ENTERPRISES SITE
SAN LEANDRO, CALIFORNIA

1.0 PROJECT SPECIFIC PLAN

1.1 Training and Medical Monitoring Requirements

All employees of Canonie Environmental Services Corp. (Canonie) and subcontractors performing tank removal activities on-site will have successfully completed hazardous training programs and medical monitoring programs, as required by the Occupational Safety and Health Administration (OSHA) under the Code of Federal Regulations, Title 29 Part 1910, Section 120 (29 CFR 1910.120). A site safety officer in conjunction with a regional health and safety coordinator will be responsible for monitoring safety for all personnel on-site, as well as enforcement of proper safety procedures for all field operations. Other 29 CFR 1910 and 1926 requirements shall be applied as appropriate. All Federal, State and local requirements shall also be adhered to as appropriate.

1.2 Canonie Employees, Roles, and Responsibilities

Supervisory personnel involved with this project are as follows:

1. The Project Manager for the Garcia Enterprises project is Brian Wetzsteon. He will be responsible for off-site project management.
2. Project Engineer/Site Safety Officer is David Poole. Mr. Poole will be responsible for field operations, engineering support and implementation of this plan.
3. Excavation Competent Person is David Poole. Mr. Poole will be responsible for 29 CFR 1926, Subpart P requirements regarding excavation procedures.
4. Regional Health and Safety Coordinator for the Garcia Enterprises project is Tami Renkoski. Ms. Renkoski will be responsible for Health and Safety Plan approval and off-site technical assistance.

1.3 Canonie Subcontractors, Roles, and Responsibilities

Subcontractor involvement is scheduled for the field phase portion of this underground storage tank removal project. Respective roles and responsibilities are as follows:

1. Liquids Removal/Disposal (if required) - a licensed transportation and disposal contractor may provide vacuum truck, transportation and disposal services for any residual tank liquids;
2. Pavement Saw Cutting - an asphalt and concrete contractor will perform pavement cutting services (under non-hazardous conditions) for the project;
3. Tank Removal/Disposal - a licensed transportation and disposal contractor will provide hazardous tank transportation and disposal services for the project;
4. Analytical Testing - an off-site laboratory will provide analytical testing support to the project.

1.4 Site History and Description

Canonie understands that two 5,000 gallon underground storage tanks (USTs) located at the facility (Figure 2) require excavation and removal. The USTs contained fuel (gasoline or diesel) for service at the former car wash. The car wash was in operation from approximately 1954 through 1956. There is relatively little additional information regarding the historical use of these tanks.

The USTs are situated under asphalt paving and are believed to have a concrete cap underlying the asphalt. The tanks are estimated to be 8 feet in diameter and 13 feet in length, holding a capacity of approximately 5,000 gallons. It is estimated that the top of the tank is located 3 feet below the ground surface, thereby the maximum depth to the bottom of the tanks is 11 feet. Access covers for the tank pumps are visible from ground surface. The tank pumps restrict access to the tanks. The estimated location of the underground piping associated with the tanks is shown on Figure 2. The fuel dispensers are located approximately 100 feet from the tanks as shown on Figure 2.

1.5 Description of Field Work to be Performed

The field portion of the scope of work concerns the excavation, removal and off-site disposal of the two USTs, pumps, and piping. The field activities for tank removal is anticipated to include the following major tasks:

1. Underground utility survey and asphalt/concrete pavement removal;
2. Liquid removal and disposal (if required);
3. Rendering the USTs inert (if required) and inspection;
4. UST, pump, and piping removal, transportation, and disposal;
5. Closure verification sampling and chemical analysis;
6. Excavation backfill, compaction, and resurfacing.

Metal cutting or confined space entry is not anticipated and is not discussed in this plan.

1.6 Chemical Hazards

Potential exposure to hazardous chemicals, specifically gasoline and diesel fuels, at the site is anticipated. The routes of exposure will be inhalation and/or through direct contact with the skin.

Appendix A contains the respective Material Safety Data Sheets (MSDSs) for gasoline and diesel fuels and should be referenced for specific information.

1.7 Description of Levels of Personal Protective Equipment

Level D Personal Protective Equipment (PPE) is anticipated for the performance of the field activities. Level C PPE will be available on-site and utilized if required. The respective levels of personal protection are discussed in the following subsections.

1.7.1 Level C Protection

Level C PPE is not anticipated during this project, however, Level C PPE may be donned contingent with procedures set forth in Section 1.10 of this plan. Level C PPE provides protection against skin and inhalation hazards. Level C PPE will include:

1. Full-face, air-purifying respirator equipped with appropriate cartridges. Organic vapor (or combined organic vapor/acid gas) cartridges are anticipated and provide protection against low concentrations of most common organic vapors/gases;
2. Level D PPE as described below.

1.7.2 Level D Protection

Level D PPE provides the lowest degree of hazard protection and will be used when the atmosphere contains no known hazard and work functions preclude the potential for unexpected contact with hazardous levels of contaminants. As a minimum, Level D PPE will include:

1. Coveralls - consisting of one-piece, front zipped Tyvek™ suits or equivalent;
2. Safety shoes - reinforced with steel-toes;
3. Hard hats;
4. Safety glasses or goggles, as appropriate;
5. Nitrile gloves or other equivalent types of hand protection;
6. Face shields and rain suits, as appropriate.

1.8 Physical Hazards

Physical hazards associated with the field activities concern those associated with light-construction type projects. Field personnel will be exposed to heavy equipment and mechanical machinery. Due caution, inclusive of hearing protection, will be utilized when personnel are within the active construction zone. All excavation activities will be performed under the direction of the on-site Excavation Competent Person and in

accordance with 29 CFR 1926, Subpart P requirements.

Heat stress is another physical hazard associated with field activities. Heat stress may result from exhaustion from high atmospheric temperatures, use of protective clothing, heavy physical workload, and/or a combination of these factors. Training will be conducted to familiarize individuals with heat stress symptoms.

1.9 Physical Hazards and SOPs Associated with Field Activities

Site-specific physical hazards inherent to the performance of the tank removal activities, and standard operating procedures will include the following:

1. The use of the "buddy system" by field personnel in the excavation area. Visual or voice communication will be maintained at all times;
2. The avoidance of direct contact with contaminated (or potentially contaminated) surfaces. Personnel will walk around (not through) puddles and discolored surfaces;
3. No eating, drinking, or smoking will be allowed within the construction zone;
4. Proper decontamination procedures will be followed when exiting the excavation area;
5. Beards or other facial hair that interferes with respirator fit may preclude admission to the excavation area;
6. As appropriate, electrical equipment will be approved for the hazardous atmosphere encountered. Ground fault circuit interrupt circuits will be part of the power circuit.
7. Proper fluid replenishment and work-rest cycles will be taken as appropriate;
8. Proper safety equipment, including first-aid, fire extinguishers, etc., will be on-site;
9. Utilities will be located prior to initiating any excavation work;

Safety meetings will be held daily or as warranted by changed site conditions. This Health and Safety Plan shall act as an outline for safety meetings.

1.10 Air Monitoring/Sampling and Action Levels

Air monitoring for volatile organic compounds (VOCs) will be performed with a Foxboro Organic Vapor Analyzer or similar equipment. The frequency shall be determined by the Site Safety Officer. Full-face respiratory equipment will be required if VOC concentrations are sustained above ten parts-per-million (ppm) above background concentrations in the breathing zone.

Air monitoring for the presence of combustible gases (and oxygen levels) will be performed with a Gastech Combustible Gas/Oxygen Indicator or similar equipment. Combustible gas readings inside the tanks will be taken concurrently with oxygen levels to check for potentially explosive atmospheres. The tanks will be purged, using dry ice to render the tanks inert for removal. Tank removal will only be allowed if the Lower Explosive Limit as registered in the UST is less than 10 percent.

All monitoring equipment will be calibrated daily, at a minimum, in accordance with manufacturer's specifications.

1.11 Description of Site Work Zones

Site work zones will be designated as appropriate. At a minimum, the entire construction area will be identified with "Caution" tape and barricades. No unauthorized personnel will be permitted within this area. Site control around the excavation area will also be maintained with a temporary cyclone fence.

1.12 Decontamination Equipment and Procedures

All personnel exiting the active construction zone will be required to follow proper decontamination procedures. Protective clothing, gloves, etc. will be deposited in an appropriate container. Upon re-entry into the construction zone, all personnel will don fresh protective clothing.

1.13 Emergency Assistance Contacts (Confirmed Before Site Visit)

	<u>Emergency</u>	<u>Non - Emergency</u>
Fire:	911	(415) 577-3319

Police:	911	(415) 577-3201
Ambulance:	911	N/A
Poison Control	911	N/A
Hospital:	911	(415) 667-7800

A phone is located at the site's tenant business.

1.14 Directions to the Hospital

Address: Fairmont Hospital
154 Foothill Blvd.
San Leandro, California

(See attached Figure 3)

Directions: Northwest on East 14th Street to Fairmont Drive, turn right on Foothill Blvd.

1.15 Emergency Supplies On-site

First-aid kit

Fire extinguisher

Additional gloves, hard hats, respirators and appropriate cartridges.

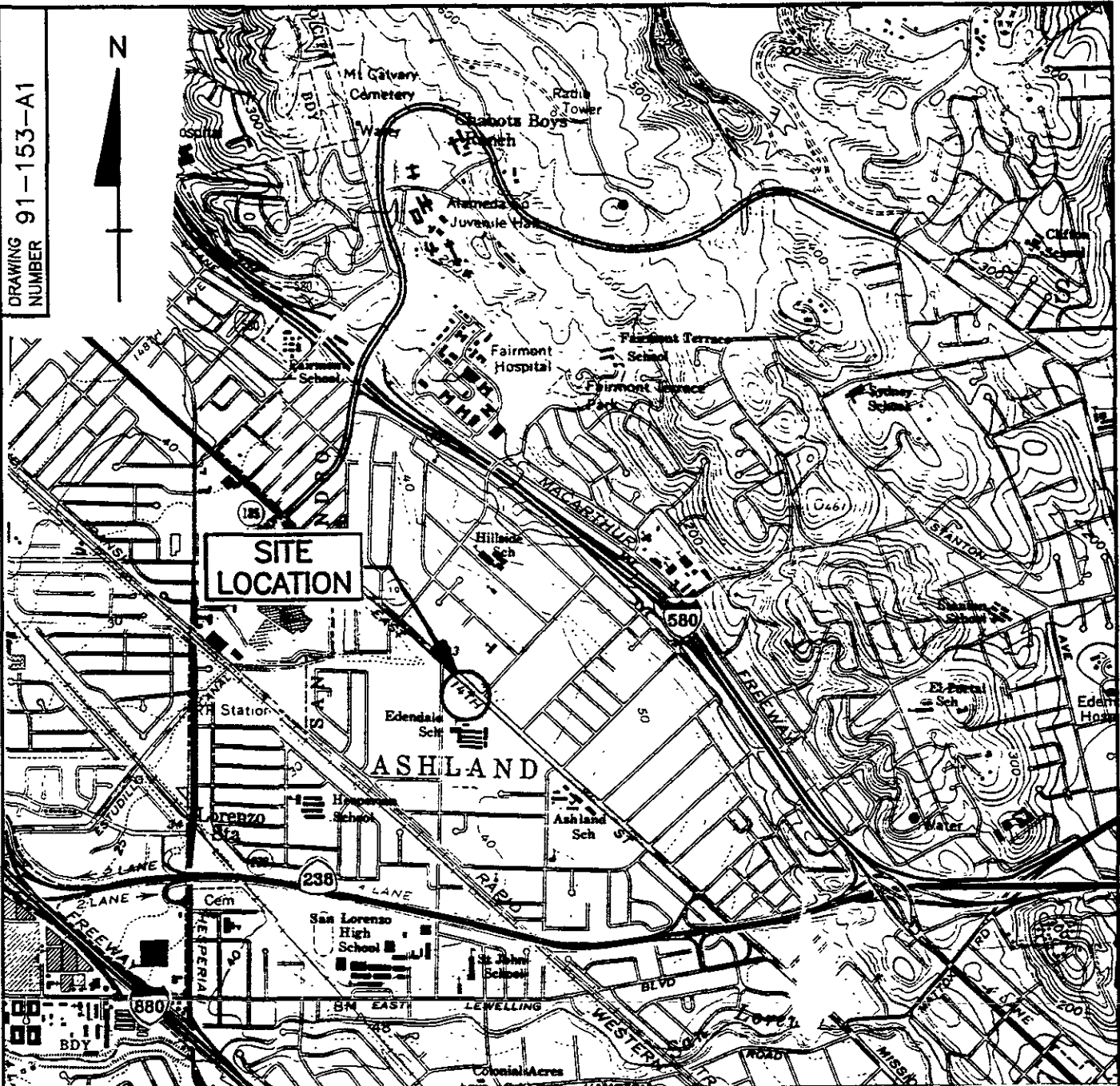
I have been informed, understand and will abide by the procedures set forth in this Health and Safety Plan.

<u>Printed Name</u>	<u>Signature</u>	<u>Representing</u>	<u>Date</u>
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_____	_____	_____	_____

ATTACHMENT A

SITE MAPS

DRAWING NUMBER 91-153-A1



CALIFORNIA



QUADRANGLE LOCATION

SCALE



REFERENCES:

USGS 7.5 MIN TOPOGRAPHIC MAP
 TITLED: HAYWARD & SAN LEANDRO, CALIFORNIA
 DATED: 1959 (REV. 1980)

SITE LOCATION MAP
 GARCIA ENTERPRISES SITE
 SAN LEANDRO, CALIFORNIA

PREPARED FOR
GARCIA ENTERPRISES, INC.
 SAN LEANDRO, CALIFORNIA

Canonie Environmental

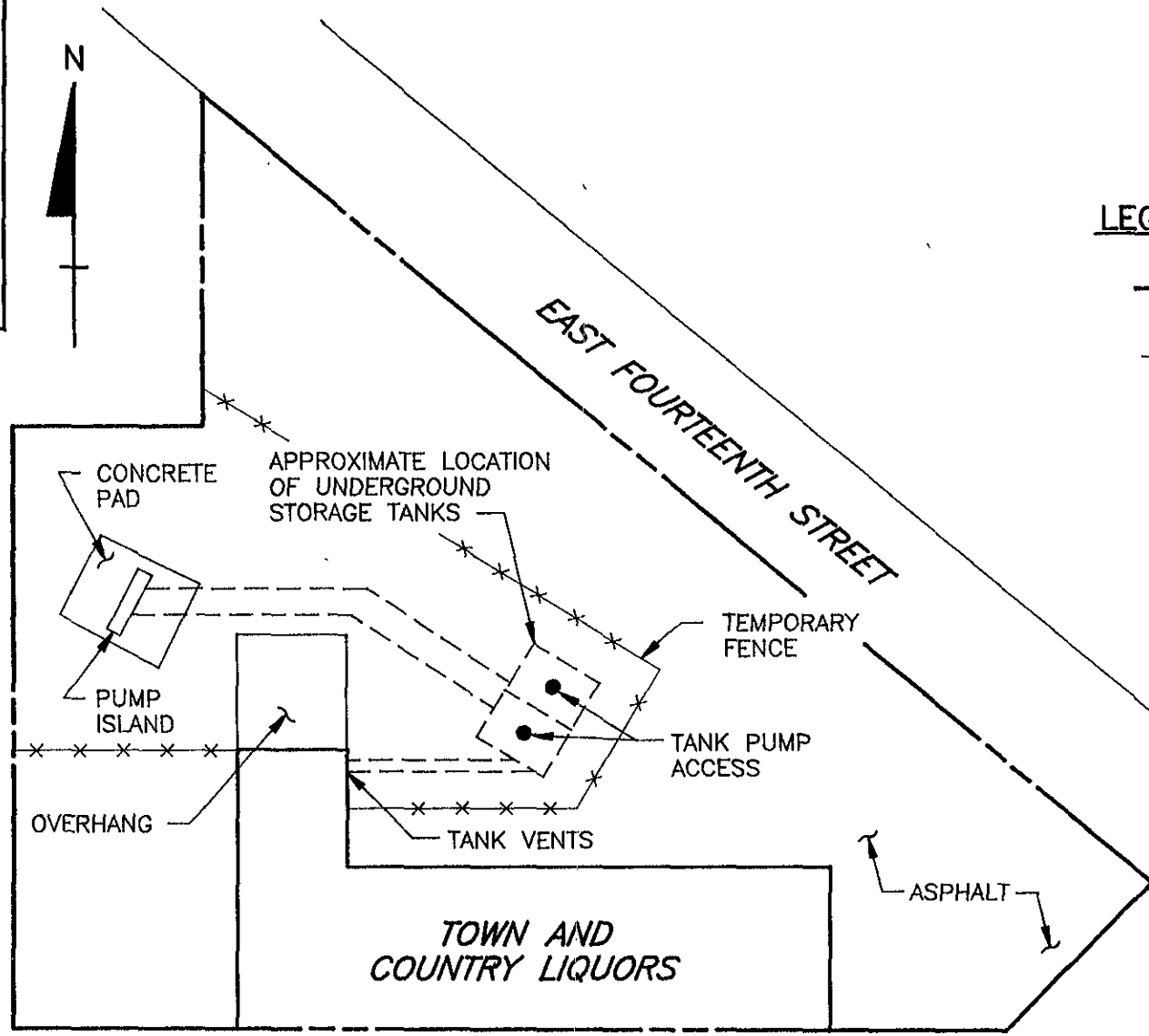
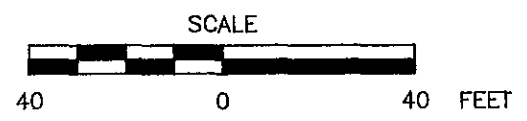
No.	6-25-91	ISSUED FOR HEALTH AND SAFETY PLAN	KCH	DLW	BLW	DATE: 6-24-91	FIGURE 1	DRAWING NUMBER 91-153-A1
		ISSUE / REVISION				OWN. BY/CK'D BY/APP'D BY		

DRAWING NUMBER 91-153-A3



LEGEND:

- PROPERTY LINE
- UNDERGROUND PIPING LOCATION, APPROXIMATE



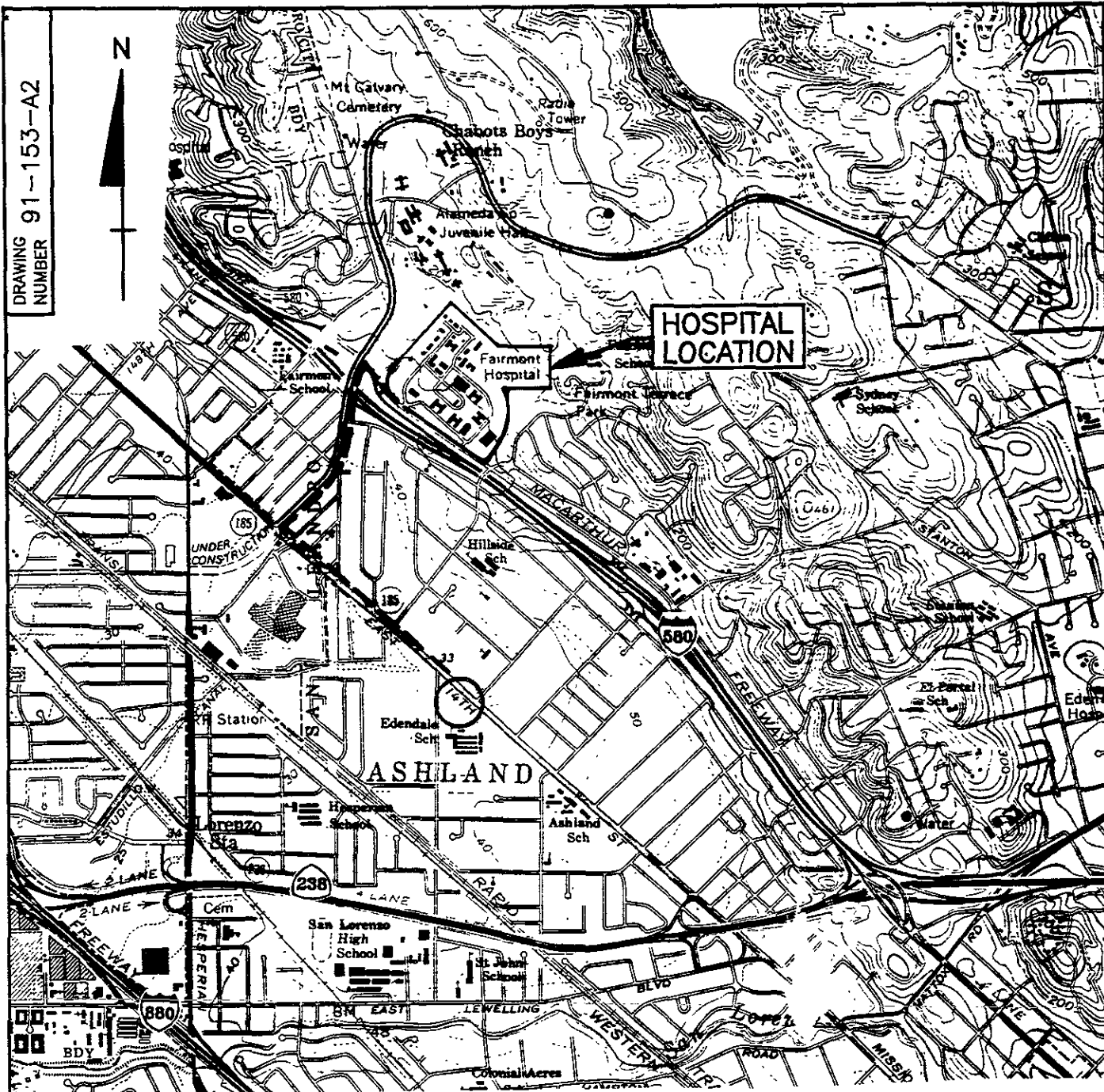
SITE PLAN
 GARCIA ENTERPRISES SITE
 SAN LEANDRO, CALIFORNIA

PREPARED FOR
GARCIA ENTERPRISES, INC.
 SAN LEANDRO, CALIFORNIA
Canonie Environmental

6-25-91	ISSUED FOR HEALTH AND SAFETY PLAN	KCH	<i>[Signature]</i>	<i>[Signature]</i>
No.	DATE	ISSUE / REVISION	DWN. BY	CHK'D BY

DATE: 6-24-91	FIGURE 2	DRAWING NUMBER 91-153-A3
SCALE: AS SHOWN		

DRAWING NUMBER 91-153-A2

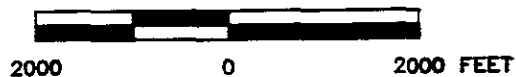


CALIFORNIA



QUADRANGLE LOCATION

SCALE



REFERENCES:

USGS 7.5 MIN TOPOGRAPHIC MAP
 TITLED: HAYWARD & SAN LEANDRO, CALIFORNIA
 DATED: 1959 (REV. 1980)

HOSPITAL ROUTE MAP
 GARCIA ENTERPRISES SITE
 SAN LEANDRO, CALIFORNIA

PREPARED FOR
GARCIA ENTERPRISES, INC.
 SAN LEANDRO, CALIFORNIA

Canonie Environmental

6-25-91	ISSUED FOR HEALTH AND SAFETY PLAN	KCH	JPB	BLW		
No.	DATE	ISSUE / REVISION	DWN. BY	CHK'D BY	AP'D BY	
					DATE: 6-24-91	FIGURE 3
					SCALE: AS SHOWN	DRAWING NUMBER 91-153-A2

ATTACHMENT B

MATERIAL SAFETY DATA SHEETS

NO. 467

SECTION VI. HEALTH HAZARD INFORMATION	TLV 300 ppm (See Sect. II)							
<p>Inhalation causes intense burning of the mucous membranes, throat and respiratory tract; overexposure to vapors can lead to bronchopneumonia. Inhalation of high conc. can cause fatal pulmonary edema. Repeated or prolonged skin exposure causes dermatitis. Can cause blistering of skin due to its defatting properties. Exposure to eyes can cause hyperemia of the conjunctiva.</p> <p>Ingestion or excessive vapors can cause inebriation, drowsiness, blurred vision, vertigo, confusion, vomiting and cyanosis (2000 ppm produces mild anesthesia in 30 min, higher conc. are intoxicating in less time.) Aspiration after ingestion causes bronchitis, pneumonia, or edema which can be fatal.</p> <p>FIRST AID:</p> <p><u>Eye Contact:</u> Flush thoroughly with running water for 15 min. including under eyelids.</p> <p><u>Skin Contact:</u> Remove contaminated clothing. Wash affected area with soap and water.</p> <p><u>Inhalation:</u> Remove to fresh air. Restore breathing and administer oxygen if needed.</p> <p><u>Ingestion:</u> Do not induce vomiting. Aspiration hazard. Contact physician.</p> <p>Seek prompt medical assistance for further treatment, observation and support.</p>								
<p>SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES</p> <p>Notify safety personnel of leaks or spills. Remove sources of heat or ignition. Provide adequate ventilation. Clean-up personnel require protection against liquid contact and vapor inhalation. If a leak or spill has not ignited, use water spray to disperse vapors and to protect men attempting to stop the leakage. Contain spill. Do not allow to enter sewer or surface water. Add absorbent solid to small spills or residues and pick up for disposal.</p> <p>DISPOSAL: Burn scrap material in an approved incinerator. Burn contaminated liquid by spraying into an incinerator. Follow Federal, State, and Local regulations.</p>								
<p>SECTION VIII. SPECIAL PROTECTION INFORMATION</p> <p>Use general and local exhaust ventilation (<u>explosion-proof</u>) to keep vapors below the TLV requirements in the workplace. Respirators should be available for nonroutine or emergency use above the TLV.</p> <p>Avoid eye contact by use of chemical safety goggles and/or full faceshield where splashing is possible. Wear protective clothing appropriate for the work situation to minimize skin contact such as rubber gloves and boots. Clothing to be changed daily and laundered.</p> <p>Eyewash fountains, showers and washing facilities should be readily accessible</p> <p>Provide suitable training to those handling and working with this material.</p>								
<p>SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS</p> <p>Store in closed containers in a cool, dry, well-ventilated area away from sources of heat, ignition and strong oxidizing agents. Protect containers from physical damage. Avoid direct sunlight. Storage must meet requirements of OSHA Class IA liquid. Outdoor or detached storage preferred. No smoking in areas of use. Prevent static electric sparks and use explosion-proof electrical services. (Must meet code.)</p> <p>Avoid skin and eye contact. Avoid inhalation of vapors. Wear clean work clothing daily.</p> <p>Indoor use of this material requires exhaust ventilation to remove vapors.</p> <p>ICC Flammable Liquid, Red Label. LABEL: Flammable Liquid DOT I.D No. UN 1203.</p> <p>DOT Classification: FLAMMABLE LIQUID</p> <p>DATA SOURCE(S) CODE: 2,4-9,34,37</p> <table border="1" data-bbox="820 1816 1399 2016"> <tr> <td>APPROVALS: MIS</td> <td rowspan="2"><i>J.M. Quinn</i></td> </tr> <tr> <td>CRD</td> </tr> <tr> <td>Industrial Hygiene and Safety</td> <td><i>JW 10-27-81</i></td> </tr> <tr> <td>MEDICAL REVIEW:</td> <td>14 November 1981</td> </tr> </table> <p><small>Judgments as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Genium Publishing Corporation warrants, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.</small></p>		APPROVALS: MIS	<i>J.M. Quinn</i>	CRD	Industrial Hygiene and Safety	<i>JW 10-27-81</i>	MEDICAL REVIEW:	14 November 1981
APPROVALS: MIS	<i>J.M. Quinn</i>							
CRD								
Industrial Hygiene and Safety	<i>JW 10-27-81</i>							
MEDICAL REVIEW:	14 November 1981							



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Schenectady, NY 12303-1836 USA
(518) 377-8854

Sheet No. 470
Diesel Fuel Oil No. 2-D

Issued: 10/81

Revision: A, 11/90

Section 1. Material Identification		33								
<p>Diesel Fuel Oil No. 2-D Description: Diesel fuel is obtained from the middle distillate in petroleum separation; a distillate oil of low sulfur content. It is composed chiefly of unbranched paraffins. Diesel fuel is available in various grades, one of which is synonymous with fuel oil No. 2-D. This diesel fuel oil requires a minimum Cetane No. (efficiency rating for diesel fuel comparable to octane number ratings for gasoline) of 40 (ASTM D613). Used as a fuel for trucks, ships, and other automotive engines; as mosquito control (coating on breeding waters); and for drilling muds.</p> <p>Other Designations: CAS No. 68334-30-5, diesel fuel.</p> <p>Manufacturer: Contact your supplier or distributor. Consult the latest <i>Chemicalweek Buyers' Guide</i>⁽⁷⁾ for a suppliers list.</p>		<p>R 1 I 2 S 2 K 2</p> <p>NFPA HMIS H 0 F 2 R 0 PPG* * Sec. 8</p>								
<p>Cautions: Diesel fuel oil No. 2-D is a skin irritant and central nervous depressant with high mist concentrations. It is an environmental hazard and moderate fire risk.</p>										
Section 2. Ingredients and Occupational Exposure Limits										
<p>Diesel fuel oil No. 2-D*</p> <table border="1"> <thead> <tr> <th>1989 OSHA PEL</th> <th>1990-91 ACGIH TLV</th> <th>1988 NIOSH REL</th> <th>1985-86 Toxicity Data†</th> </tr> </thead> <tbody> <tr> <td>None established</td> <td>Mineral Oil Mist TWA: 5 mg/m³† STEL: 10 mg/m³</td> <td>None established</td> <td>Rat, oral, LD₅₀: 9 g/kg produces gastrointestinal (hypermotility, diarrhea) effects</td> </tr> </tbody> </table>			1989 OSHA PEL	1990-91 ACGIH TLV	1988 NIOSH REL	1985-86 Toxicity Data†	None established	Mineral Oil Mist TWA: 5 mg/m ³ † STEL: 10 mg/m ³	None established	Rat, oral, LD ₅₀ : 9 g/kg produces gastrointestinal (hypermotility, diarrhea) effects
1989 OSHA PEL	1990-91 ACGIH TLV	1988 NIOSH REL	1985-86 Toxicity Data†							
None established	Mineral Oil Mist TWA: 5 mg/m ³ † STEL: 10 mg/m ³	None established	Rat, oral, LD ₅₀ : 9 g/kg produces gastrointestinal (hypermotility, diarrhea) effects							
<p>* Diesel fuel No. 2-D tends to be low in aromatics and high in paraffinics. This fuel oil is complex mixture of: 1) >95% paraffinic, olefinic, naphthenic, and aromatic hydrocarbons, 2) sulfur (<0.5%), and 3) benzene (<100 ppm). [A low benzene level reduces carcinogenic risk. Fuel oils can be exempted under the benzene standard (29 CFR 1910.1028)]. Although low in the fuel itself, benzene concentrations are likely to be much higher in processing areas.</p> <p>† As sampled by nonvapor-collecting method.</p> <p>‡ Monitor NIOSH, RTECS (HZ180000), for future toxicity data.</p>										
Section 3. Physical Data										
<p>Boiling Point Range: 340 to 675 °F (171 to 358 °C)</p> <p>Viscosity: 1.9 to 4.1 centistoke at 104 °F (40 °C)</p> <p>Appearance and Odor: Brown, slightly viscous liquid.</p>		<p>Specific Gravity: <0.86</p> <p>Water Solubility: Insoluble</p>								
Section 4. Fire and Explosion Data										
<p>Flash Point: 125 °F (52 °C) min.</p>	<p>Autoignition Temperature: >500 °F (932 °C)</p>	<p>LEL: 0.6% v/v</p> <p>UEL: 7.5% v/v</p>								
<p>Extinguishing Media: Use dry chemical, carbon dioxide, or foam to fight fire. Use a water spray to cool fire exposed containers. Do not use a forced water spray directly on burning oil since this will scatter the fire. Use a smothering technique for extinguishing fire.</p> <p>Unusual Fire or Explosion Hazards: Diesel fuel oil No. 2-D is a OSHA Class II combustible liquid. Its volatility is similar to that of gas oil. Vapors may travel to a source of ignition and flash back.</p> <p>Special Fire-fighting Procedures: Isolate hazard area and deny entry. Since fire may produce toxic fumes, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure-demand or positive-pressure mode and full protective clothing. If feasible, remove containers from fire. Be aware of runoff from fire control methods. Do not release to sewers or waterways due to pollution and fire or explosion hazard.</p>										
Section 5. Reactivity Data										
<p>Stability/Polymerization: Diesel fuel oil No. 2-D is stable at room temperature in closed containers under normal storage and handling conditions. Hazardous polymerization cannot occur.</p> <p>Chemical Incompatibilities: It is incompatible with strong oxidizing agents; heating greatly increases the fire hazard.</p> <p>Conditions to Avoid: Avoid heat and ignition sources.</p> <p>Hazardous Products of Decomposition: Thermal oxidative decomposition of diesel fuel oil No. 2-D can produce various hydrocarbons and hydrocarbon derivatives, and other partial oxidation products such as carbon dioxide, carbon monoxide, and sulfur dioxide.</p>										

Section 6. Health Hazard Data

Carcinogenicity: Although the IARC has not assigned an overall evaluation to diesel fuels as a group, it has evaluated occupational exposures in petroleum refining as an IARC probable human carcinogen (Group 2A). It has evaluated distillate (light) diesel oils as not classifiable as human carcinogens (Group 3).

Summary of Risks: Although diesel fuel's toxicologic effects should resemble kerosine's, they are somewhat more pronounced due to additives such as sulfonized esters. Excessive inhalation of aerosol or mist can cause respiratory tract irritation, headache, dizziness, nausea, vomiting, and loss of coordination, depending on concentration and exposure time. When removed from exposure area, affected persons usually recover completely. If vomiting occurs after ingestion and if oil is aspirated into the lungs, hemorrhaging and pulmonary edema, progressing to renal involvement and chemical pneumonitis, may result. A comparative ratio of oral to aspirated lethal doses may be 1 pt vs. 5 ml. Aspiration may also result in transient CNS depression or excitement. Secondary effects may include hypoxia (insufficient oxygen in body cells), infection, pneumatocele formation, and chronic lung dysfunction. Inhalation may result in euphoria, cardiac dysrhythmias, respiratory arrest, and CNS toxicity. Prolonged or repeated skin contact may irritate hair follicles and block sebaceous glands, producing a rash of acne pimples and spots, usually on arms and legs.

Medical Conditions Aggravated by Long-Term Exposure: None reported.

Target Organs: Central nervous system, skin, and mucous membranes.

Primary Entry Routes: Inhalation, ingestion.

Acute Effects: Systemic effects from ingestion include gastrointestinal irritation, vomiting, diarrhea, and in severe cases central nervous system depression, progressing to coma or death. Inhalation of aerosols or mists may result in increased rate of respiration, tachycardia (excessively rapid heart beat), and cyanosis (dark purplish discoloration of the skin and mucous membranes caused by deficient blood oxygenation).

Chronic Effects: Repeated contact with the skin causes dermatitis.

FIRST AID

Eyes: Gently lift the eyelids and flush immediately and continuously with flooding amounts of water until transported to an emergency medical facility. Consult a physician immediately.

Skin: Quickly remove contaminated clothing. Rinse with flooding amounts of water for at least 15 min. If large areas of the body have been exposed or if irritation persists, get medical help immediately. Wash affected area with soap and water.

Inhalation: Remove exposed person to fresh air and support breathing as needed.

Ingestion: Never give anything by mouth to an unconscious or convulsing person. If ingested, *do not induce vomiting* due to aspiration hazard.

Contact a physician immediately. Position to avoid aspiration.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Gastric lavage is contraindicated due to aspiration hazard. Preferred antidotes are charcoal and milk. In cases of severe aspiration pneumonitis, consider monitoring arterial blood gases to ensure adequate ventilation. Observe the patient for 6 hr. If vital signs become abnormal or symptoms develop, obtain a chest x-ray.

Section 7. Spill, Leak, and Disposal Procedures

Spill/Leak: Notify safety personnel, evacuate area for large spills, remove all heat and ignition sources, and provide maximum explosion-proof ventilation. Cleanup personnel should protect against vapor inhalation and liquid contact. Clean up spills promptly to reduce fire or vapor hazards. Use a noncombustible absorbent material to pick up small spills or residues. For large spills, dike far ahead to contain. Pick up liquid for reclamation or disposal. Do not release to sewers or waterways due to health and fire and/or explosion hazard. Follow applicable OSHA regulations (29 CFR 1910.120). Diesel fuel oil No. 2-D spills may be environmental hazards. Report large spills.

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

EPA Designations

RCRA Hazardous Waste (40 CFR 261.21): Ignitable waste

CERCLA Hazardous Substance (40 CFR 302.4): Not listed

SARA Extremely Hazardous Substance (40 CFR 355): Not listed

SARA Toxic Chemical (40 CFR 372.65): Not listed

OSHA Designations

Air Contaminant (29 CFR 1910.1000, Subpart Z): Not listed

Section 8. Special Protection Data

Goggles: Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).

Respirator: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, use a NIOSH-approved respirator with a mist filter and organic vapor cartridge. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.*

Other: Wear impervious gloves, boots, aprons, and gauntlets to prevent skin contact.

Ventilation: Provide general and local explosion-proof ventilation systems to maintain airborne concentrations that promote worker safety and productivity. Local exhaust ventilation is preferred since it prevents contaminant dispersion into the work area by controlling it at its source.⁽²⁰⁾

Safety Stations: Make available in the work area emergency eyewash stations, safety/quick-drench showers, and washing facilities.

Contaminated Equipment: Never wear contact lenses in the work area: soft lenses may absorb, and all lenses concentrate, irritants. Remove this material from your shoes and equipment. Launder contaminated clothing before wearing.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9. Special Precautions and Comments

Storage Requirements: Use and storage conditions should be suitable for a OSHA Class II combustible liquid. Store in closed containers in a well-ventilated area away from heat and ignition sources and strong oxidizing agents. Protect containers from physical damage. To prevent static sparks, electrically ground and bond all containers and equipment used in shipping, receiving, or transferring operations. Use nonsparking tools and explosion-proof electrical equipment. No smoking in storage or use areas.

Engineering Controls: Avoid vapor or mist inhalation and prolonged skin contact. Wear protective rubber gloves and chemical safety glasses where contact with liquid or high mist concentration may occur. Additional suitable protective clothing may be required depending on working conditions. Institute a respiratory protection program that includes regular training, maintenance, inspection, and evaluation. Practice good personal hygiene and housekeeping procedures. Do not wear oil contaminated clothing. At least weekly laundering of work clothes is recommended. Do not put oily rags in pockets. When working with this material, wear gloves or use barrier cream.

Transportation Data (49 CFR 172.101)

DOT Shipping Name: Fuel oil

DOT Hazard Class: Combustible liquid

ID No.: NA1993

DOT Label: None

DOT Packaging Exceptions: 173.118a

DOT Packaging Requirements: None

OS Collection References: 1, 6, 7, 12, 73, 84, 101, 103, 126, 127, 132, 133, 136, 143, 146

Prepared by: MI Allison, BS; **Industrial Hygiene Review:** DJ Wilson, CIH; **Medical Review:** AC Darlington, MD; **Edited by:** JR Smart, MS

ACORD. CERTIFICATE OF INSURANCE

316 ISSUE DATE (MM/DD/YY)
 6/20/91

PRODUCER
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 150 Riverfront Plaza
 Grand Rapids, MI 49503-2692

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COMPANIES AFFORDING COVERAGE

CODE SUB-CODE

- COMPANY LETTER **A** **PLANET INSURANCE CO**
- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

INSURED
 Canonie Environmental Services
 800 Canonie Drive
 Porter, IN 46304

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)	ALL LIMITS IN THOUSANDS	
A	GENERAL LIABILITY	NGB125906203	2/28/91	2/28/92	GENERAL AGGREGATE \$ 1000	
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/OPS AGGREGATE \$ 1000	
	<input checked="" type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR.				PERSONAL & ADVERTISING INJURY \$ 1000	
	<input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE \$ 1000	
					FIRE DAMAGE (Any one fire) \$ 50	
					MEDICAL EXPENSE (Any one person) \$ 5	
A	AUTOMOBILE LIABILITY	NKA125889501	2/28/91	2/28/92	COMBINED SINGLE LIMIT \$ 1000	
	<input checked="" type="checkbox"/> ANY AUTO				BODILY INJURY (Per person) \$	
	<input type="checkbox"/> ALL OWNED AUTOS				BODILY INJURY (Per accident) \$	
	<input type="checkbox"/> SCHEDULED AUTOS				PROPERTY DAMAGE \$	
	<input checked="" type="checkbox"/> HIRED AUTOS					
<input checked="" type="checkbox"/> NON-OWNED AUTOS						
<input type="checkbox"/> GARAGE LIABILITY						
	EXCESS LIABILITY				EACH OCCURRENCE \$	AGGREGATE \$
	<input type="checkbox"/> OTHER THAN UMBRELLA FORM					
A	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY	NWA149911200	2/28/91	2/28/92	STATUTORY	
					\$ 2000 (EACH ACCIDENT)	
					\$ 2000 (DISEASE-POLICY LIMIT)	
	\$ 2000 (DISEASE-EACH EMPLOYEE)					
	OTHER					

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

Canonie Job No. 91-153-01
 Requested By: Allemedia County Dept. of Env. Health, Hazardous Materials Program

CERTIFICATE HOLDER

Garcia Enterprises Inc.
 16211 East 14th Street
 San Leandro, CA 94578

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 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

James J. Galter

ACORD. CERTIFICATE OF INSURANCE

316 ISSUE DATE (MM/DD/YY) **6/20/91**

Marsh & McLennan Incorporated
150 Riverfront Plaza
Grand Rapids, MI 49503-2692

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

INSURED
Canonie Environmental Services
800 Canonie Drive
Porter, IN 46304

COMPANIES AFFORDING COVERAGE	
COMPANY LETTER A	PLANET INSURANCE CO
COMPANY LETTER B	
COMPANY LETTER C	
COMPANY LETTER D	
COMPANY LETTER E	

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)	ALL LIMITS IN THOUSANDS	
A	GENERAL LIABILITY	NGB125906203	2/28/91	2/28/92	GENERAL AGGREGATE \$ 1000	
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/OPS AGGREGATE \$ 1000	
	<input checked="" type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR.				PERSONAL & ADVERTISING INJURY \$ 1000	
	<input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE \$ 1000	
					FIRE DAMAGE (Any one fire) \$ 50	
					MEDICAL EXPENSE (Any one person) \$ 5	
A	AUTOMOBILE LIABILITY	NKA125889501	2/28/91	2/28/92	COMBINED SINGLE LIMIT \$ 1000	
	<input checked="" type="checkbox"/> ANY AUTO				BODILY INJURY (Per person) \$	
	<input type="checkbox"/> ALL OWNED AUTOS				BODILY INJURY (Per accident) \$	
	<input type="checkbox"/> SCHEDULED AUTOS				PROPERTY DAMAGE \$	
	<input checked="" type="checkbox"/> HIRED AUTOS					
<input checked="" type="checkbox"/> NON-OWNED AUTOS						
<input type="checkbox"/> GARAGE LIABILITY						
	EXCESS LIABILITY				EACH OCCURRENCE \$	AGGREGATE \$
	<input type="checkbox"/> OTHER THAN UMBRELLA FORM					
A	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY	NWA149911200	2/28/91	2/28/92	STATUTORY	
					\$ 2000 (EACH ACCIDENT)	
					\$ 2000 (DISEASE—POLICY LIMIT)	
	OTHER				\$ 2000 (DISEASE—EACH EMPLOYEE)	

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AUTHORIZED REPRESENTATIVE


April 25, 1991

Garcia Enterprises
Anthony Garcia
16101 E. 14th St.
San Leandro, CA 94578

271-4320

Re: 16211 E. 14th St., San Leandro

NOTICE OF VIOLATION

Dear Mr. Garcia:

Our records indicate that there are underground tank(s) at your site at the above facility.

In accordance with the California Code of Regulations, Title 23, Chapter 3, Subchapter 16 Underground Tank Regulations you must perform one or both of the following actions:

1. Submit a tank closure plan to this Department as required by Article 7, 2670, (forms available from this office), and/or
2. Apply for a permit as required by Article 10, 2710. Permit applications Part A and B are attached.

Please note that section 25299 of the California Health and Safety Code states that any operator or owner of an underground storage tank is liable for a civil penalty of not less than five hundred dollars or more than five thousand dollars per day for failure to obtain a permit, or failing to properly close an underground storage tank, as required by section 25298.

If you have any questions concerning this matter, please contact this office at 271-4320.

Sincerely,

Thomas F. Peacock, Senior HMS
Hazardous Materials Division

TFP:tfp

cc: Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Agency
Lester Feldman, RWQCB

PER NO. 1000

ENVELOPE

No. of

PLAN REVIEW

\$ 1042⁰⁰

Rec'd.

By Date

By Date

OWNER Garcia Enterprises

Address 11211 E. 14th St

Phone 94578

Contractor Canome Env.

Address 7901 Stoneridge Dr

Phone

OTHER (Specify)

Address

Phone

CONTACT FOR INVESTIGATION

XR

unincorp

REMARKS

LOCATION

REMARKS

Date

By

Date

By

7-5-91 SO plan reviewed/approved

7-17-91 " UST closure

2/7/92 " PSA proposal request

4/13 review PSA work plan; deficiencies noted; letter sent

12/23 SO closure letter to RAS

12/28/93 " CASE CLOSED

POOL

Pre-Concrete/Concrete

Pre-Plaster

20590

Final

EXCAVATION

Septic Tank

Absorption Field

Absorption Bed

House Sewer

FINAL

Septic Tank

Absorption Field

Absorption Bed

OTHER

CONSTRUCTION PROGRESS ACCEPTANCE

FOOD

Pre-Plaster/drywall

Pre-Final

Final

U.G. TANKS

Pre-Covering

Final

3745

CASE CLOSED

Vicinity Map

Project #

10592491

Fee Paid

\$1042⁰⁰

Date

12/21/93

12-23-93

ENTRANCES
13745