

Canonie Environmental

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September 10, 1991

Canonie Environmental Services Corp.
1825 South Grant Street
Suite 260
San Mateo, California 94402
Phone: 415-573-8012
FAX: 415-573-5654

91-153-01

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


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

Dear Mr. Seery:

Please find enclosed a copy of the Underground Storage Tank Closure Report, for the Garcia Enterprises, Inc. site located at 16211 East 14th Street in San Leandro, California.

If you have any questions please give me a call at 510-463-9117.

Very truly yours,


James W. Babcock, Ph.D.
Project Manager

JWB/tam

cc: A. Garcia, Garcia Enterprises, Inc.
D. Poole, Canonie Environmental Services Corp.

September 1991

91-153-01

UNDERGROUND STORAGE TANK
CLOSURE REPORT
GARCIA ENTERPRISES, INC. SITE
SAN LEANDRO, CALIFORNIA

Canonie Environmental

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

Dear Mr. Seery:

This Underground Storage Tank Closure Report presents the results of underground storage tank removal activities performed by Canonie Environmental Services Corp. (Canonie) at the Garcia Enterprises, Inc. site located in San Leandro, California (Figure 1). This letter report summarizes tank removal activities performed in accordance with an Underground Storage Tank Closure Plan (Appendix A) approved by the Alameda County Health Care Services Agency, Department of Environmental Health (County) and the Eden Consolidated Fire Protection District.

In response to a letter from the County to Mr. Anthony Garcia dated April 25, 1991, Canonie was retained by Garcia Enterprises, Inc. to perform underground storage tank removal activities at the former car wash located at 16211 East 14th Street in San Leandro. Two 10,000-gallon underground storage tanks were located at the site as shown on Figure 2. The specific contents of each tank is unknown, however the tanks were in operation from approximately 1954 through 1964 and contained either gasoline or diesel fuel.

Tank Removal Activities

The two underground storage tanks were remotely located from the service island as shown on Figure 2. Two service island pumps, the two 10,000-gallon tanks, and associated piping were removed on July 17, 1991. Field activities consisted of the following:

1. The fuel pipe lines were flushed with water from the service island back into the tanks to remove any standing product from the lines.
2. A vacuum truck removed residual tank liquids and rinseate from both tanks. Approximately 120 gallons were transported by Erickson, Inc. to Gibson-Pilot in Redwood City. Copies of the uniform hazardous waste manifests are provided in Appendix B.
3. The underground storage tanks were exposed, rendered inert with dry ice, and removed from the excavation. Both tanks had visible corrosion, however no holes were visible in the tanks or piping. The two 10,000-gallon tanks, product and vent piping, and the service island pumps were transported by Erickson, Inc. to their Richmond facility for recycling. Copies of the uniform hazardous waste manifests are provided in Appendix B.
4. Approximately 54 cubic yards of discolored sand with evident fuel odor and, backfill and perimeter native soils were apparently contaminated. These soils were stockpiled and covered with plastic. The stockpiles were bermed with clean soil to prevent run-on/run-off.
5. Approximately 1,600 gallons of water that accumulated in the excavation was pumped into a BakerTM tank.

You and Mr. Ed Landauni of the Eden Consolidated Fire Protection District were present for the removal of the underground storage tanks from the excavation.

The final tank excavation was approximately 22 feet wide, 32 feet long, and extended to a depth of approximately 12.5 feet (Figure 2). No visible signs of contamination were observed at the excavation limits. The native soil is a gray silt extending to approximately 11.5 feet below ground surface, where a thin water-bearing gravel lens was encountered. Water filtered into the excavation to a depth of approximately 10.5 feet. No free product or sheen was observed on the water that accumulated in the excavation.

Verification samples for tank closure were taken as follows:

1. Four soil samples were taken at depths of 9.5 to 10 feet below grade from the excavation sidewalls (samples designated NE-9.5', NW-10', SE-9.5', and SW-10').
2. One water sample was taken from the water that accumulated in the open tank excavation (designated WS-1).
3. One soil sample was taken under the former pump island and three soil samples were taken along the piping from the tanks to the pumps (designated

totaling approximately 54 cubic yards, was transported as non-hazardous to a Class III landfill for disposal.

Approximately 1,600 gallons of ground water was pumped out of the tank excavation and held in a Baker™ tank to remove water potentially containing residual petroleum hydrocarbon concentrations from excavation activities. Analysis of the water (designated WS-2) indicated TPH-D at 0.12 ppm, TPH-G at 0.88 ppm, benzene at 0.00089 ppm, toluene at 0.00081 ppm, and total lead at 0.0059 ppm. Ethylbenzene and xylene indicated nondetectable concentrations. The water was transported as non-hazardous to Gibson-Pilot in Redwood City for treatment.

Conclusions and Recommendations

The source of the petroleum hydrocarbons and affected soil have been removed from the former service station site. Only minor concentrations of petroleum hydrocarbons were found during tank removal activities, the highest petroleum hydrocarbon concentration observed was 43 ppm (as TPH-D in stockpile sample). No hazardous concentrations of petroleum hydrocarbons were observed.

Benzene was the only analyte found in excess of primary drinking water standards (maximum contaminant levels) in the water sample retrieved directly from the excavation. This water had mixed with soil disturbed during excavation operations and is not representative of ground water quality. The water sample obtained from water pumped from the excavation to the Baker™ tank did not exceed drinking water standards indicating ground water was not impacted. Canonie considers the underground storage tank closure complete and recommends no further action at the site.

} not necessarily a correct assumption

If you have any questions concerning this underground storage tank closure report, please contact me or David Poole at (415) 463-9117.

Respectfully submitted,

James W. Babcock, Ph.D.
Project Manager

JWB/tam

cc: A. Garcia, Garcia Enterprises, Inc.

LIST OF FIGURES

<u>FIGURE NUMBER</u>	<u>DRAWING NUMBER</u>	<u>TITLE</u>
1	91-153-A1	Site Location Map
2	91-153-B4	Site Plan

LIST OF APPENDICES

APPENDIXTITLE

A	Underground Storage Tank Closure Plan
B	Uniform Hazardous Waste Manifests
C	Certified Laboratory Analytical Reports

TABLE 1
SUMMARY OF CHEMICAL ANALYSES
GARCIA ENTERPRISES

<u>Sample Identification</u>	<u>Total Petroleum Hydrocarbons, Diesel (ppm)</u>	<u>Total Petroleum Hydrocarbons, Gasoline (ppm)</u>	<u>Benzene (ppm)</u>	<u>Toluene (ppm)</u>	<u>Ethylbenzene (ppm)</u>	<u>Xylene (ppm)</u>	<u>Organic Lead (ppm)</u>	<u>Total Lead (ppm)</u>
Sidewall Samples								
NE-9.5'	15	ND	ND	ND	ND	ND	ND	NT
NW-10'	ND	ND	ND	ND	ND	ND	ND	NT
SE-9.5'	ND	ND	ND	ND	ND	ND	ND	NT
SW-10'	ND	ND	ND	ND	ND	ND	ND	NT
Pump and Trench Samples								
Pumps	ND	ND	0.16	0.217	ND	ND	ND	NT
T-1	ND	ND	ND	ND	ND	ND	ND	NT
T-2	ND	ND	ND	ND	ND	ND	ND	NT
T-3	ND	ND	ND	ND	ND	ND	ND	NT
Stockpile Samples								
North Pile	43	ND	ND	ND	ND	0.595	ND	NT
South Pile	1.3	ND	ND	ND	ND	ND	ND	NT

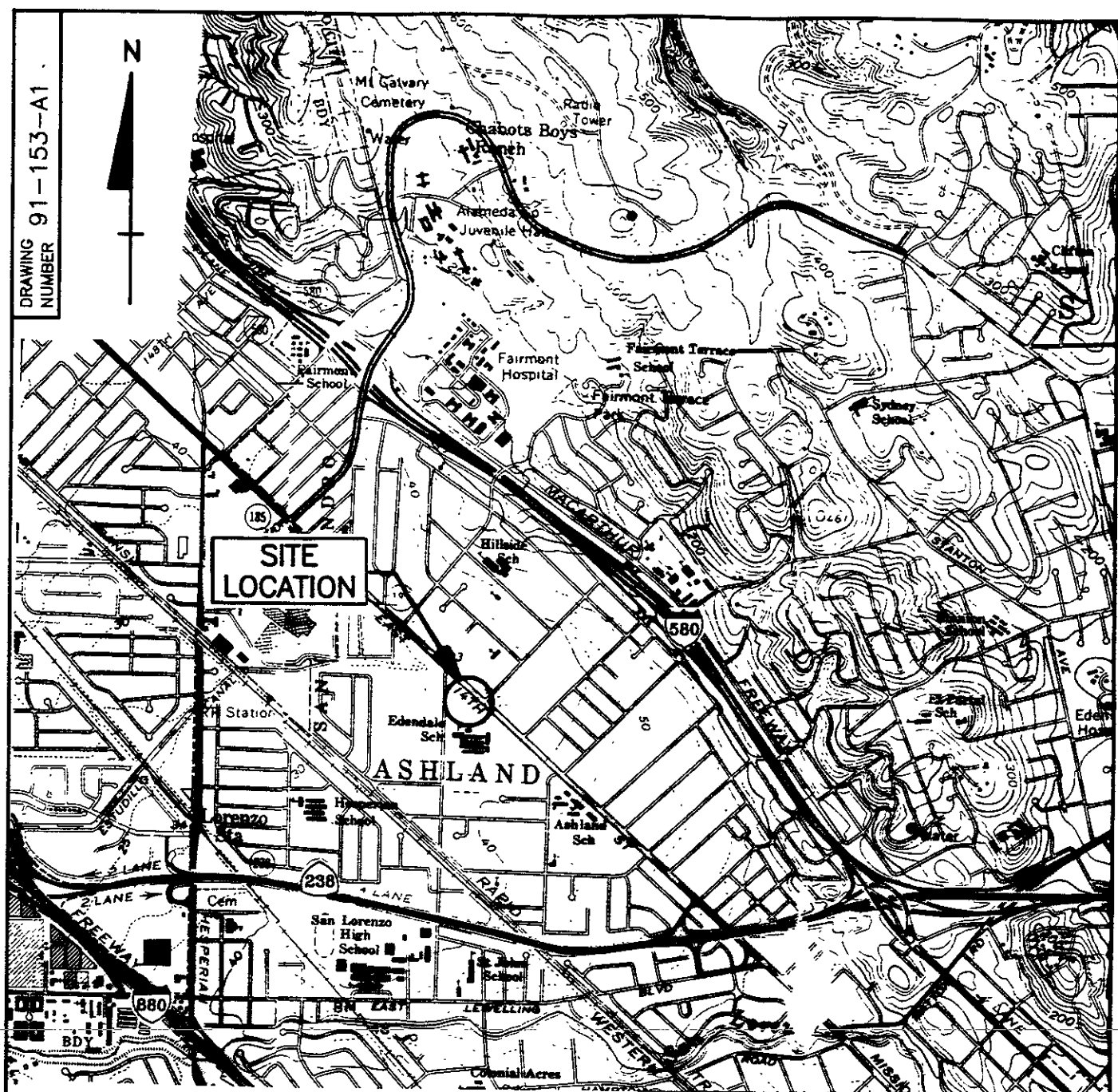
TABLE 1
 SUMMARY OF CHEMICAL ANALYSES
 GARCIA ENTERPRISES
 (Continued)

<u>Sample Identification</u>	<u>Total Petroleum Hydro- carbons, Diesel (ppm)</u>	<u>Total Petroleum Hydro- carbons, Gasoline (ppm)</u>	<u>Benzene (ppm)</u>	<u>Toluene (ppm)</u>	<u>Ethyl- benzene (ppm)</u>	<u>Xylene (ppm)</u>	<u>Organic Lead (ppm)</u>	<u>Total Lead (ppm)</u>
Water Samples								
WS-1	0.43	3.4	0.033	0.084	0.02	0.13	NT	0.021
WS-2	0.12	0.88	0.00089	0.00081	ND	ND	NT	0.0059

Notes

- 1) ND indicates none detected at method detection limits.
- 2) NT indicates not tested.

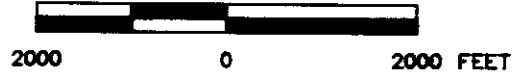
DRAWING NUMBER 91-153-A1



CALIFORNIA



SCALE



REFERENCES:

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

QUADRANGLE LOCATION

SITE LOCATION MAP
 GARCIA ENTERPRISES SITE
 SAN LEANDRO, CALIFORNIA

PREPARED FOR

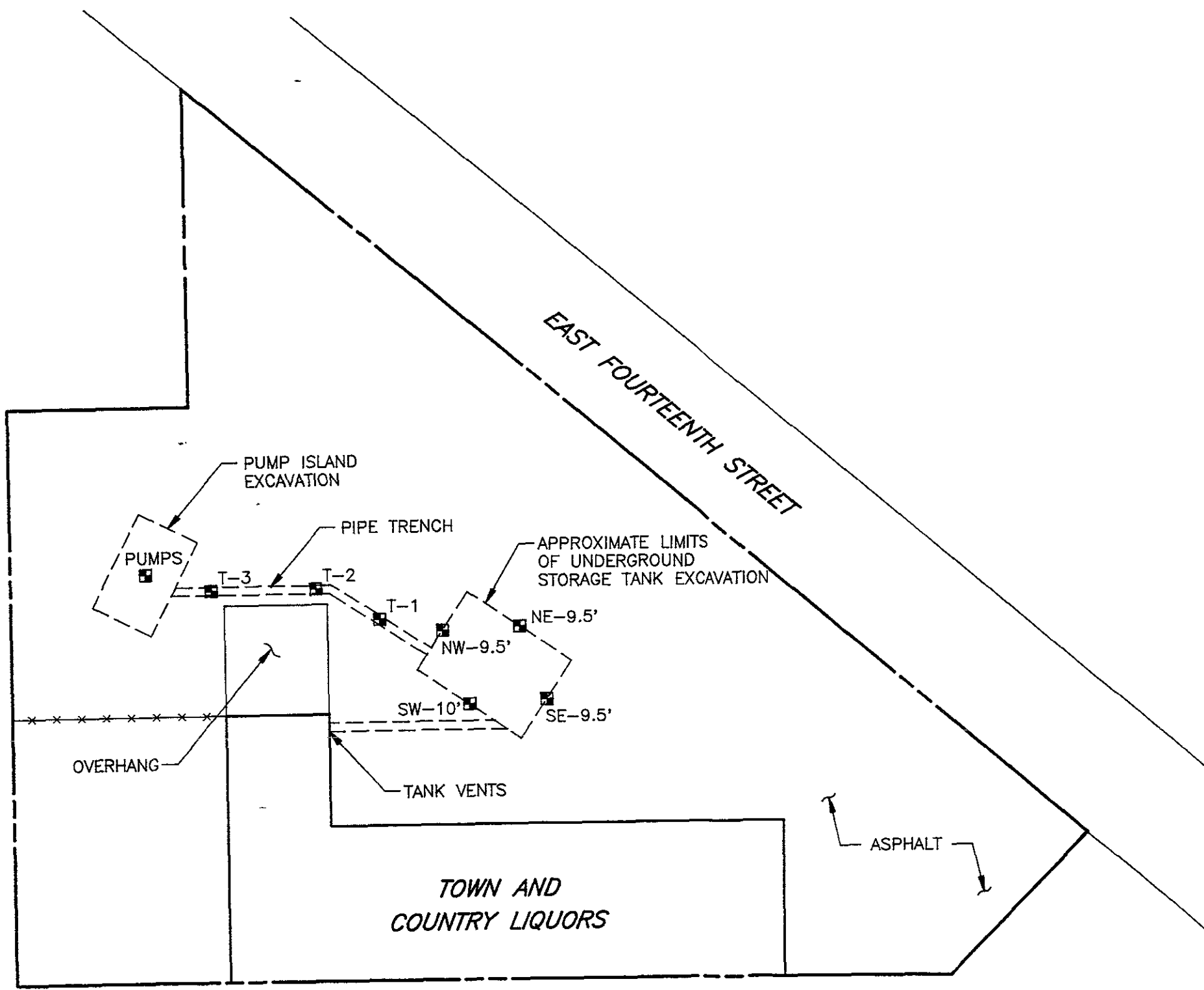
GARCIA ENTERPRISES, INC.
SAN LEANDRO, CALIFORNIA
Canonie Environmental

▲	9-9-91	ISSUED FOR UNDERGROUND STORAGE TANK CLOSURE REPORT	VZC	RF	JS
▲	8-25-91	ISSUED FOR HEALTH AND SAFETY PLAN	KCH	RF	BLW
No.	DATE	ISSUE / REVISION	OWN. BY/CRD BY	APD BY	

DATE: 8-24-91
 SCALE: AS SHOWN

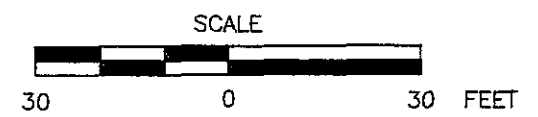
FIGURE 1

DRAWING NUMBER 91-153-A1



LEGEND:

- PROPERTY LINE
- - - - - APPROXIMATE LIMITS OF EXCAVATION
- PUMPS
- SOIL SAMPLE LOCATION



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

9-9-91	ISSUED FOR UNDERGROUND STORAGE TANK CLOSURE REPORT	VZC	<i>[Signature]</i>	<i>[Signature]</i>
8-28-91	ISSUED FOR TANK CLOSURE REPORT	VZC	DPP	
No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY

DATE: 8-16-91	FIGURE 2	DRAWING NUMBER 91-153-B4
SCALE: AS SHOWN		

APPENDIX A

UNDERGROUND STORAGE TANK CLOSURE PLAN

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

505
 7-10-91 ACCEPTED
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 470 - 27th Street, 13th Floor
 Oakland, CA 94612
 Telephone: (415) 874-7237

These plans have been reviewed and found to be in compliance with applicable state and local health laws. Changes to these plans must be approved by the Department of Environmental Health. The project proposed must comply with all applicable laws and regulations. One copy of these plans must be submitted to all contractors and establishments involved in the removal.

- ✓ 1. Plans for the removal of tanks and their contents must be submitted to this Department at least 15 days before the start of the removal operation. Plans must meet the requirements of State and Federal law. Department of Health and Human Services, Hazardous Waste Division, 48 CFR 191.101-104.
 - ✓ 2. Plans must include the following information:
 - _____ Removal of Tank and Equipment
 - _____ Sampling
 - _____ Final Inspection
- Issuance of a permit to operate is dependent upon the completion of the above and all applicable regulations.
- FOR MORE INFORMATION, CONTACT THE DEPARTMENT OF ENVIRONMENTAL HEALTH AT (415) 874-7237.

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 Wetzsteon 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 8260
	TPH AND BTX&E	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 8260
	TPH AND BTX&E	8260		
Diesel, Jet Fuel and Kerosene	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
Fuel/Heating Oil	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	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 GCFID 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.

10. 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.

11. 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.

12. 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

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.

SOS
7-5-91

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH

470 - 2/11th St. 3rd floor

Oakland, CA 94612

Telephone: (415) 87-2237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of the local health laws. Certain parts of the plan, however, do need to be revised. The project proponent is required to submit a copy of these revisions to the Department of Environmental Health for review and approval. A change of ownership of these plans and the permit must be submitted to this Department and the Department must be notified of any required revisions. A copy of these revisions must be submitted to all other agencies having jurisdiction over the project. The Department of Environmental Health will issue a permit to operate at least 48 hours prior to the start of the project.

Removal of Tank and Pipelines

Sampling

Final Inspection

Permit to operate is dependent on compliance with applicable laws and all applicable law requirements.

VIOLATION OF PERMITS IS PENALTY FOR THE PROJECT PROponent.

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 Weytson
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:

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

Project Number: 91-153

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. *O₂ ALSO LESS THAN 10%*

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 670-5853

Police:	911	(415) 577-3204 667-7721
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 2, 20/BC TYPE

Additional gloves, hard hats, respirators and appropriate cartridges.

ATTACHMENT A

SITE MAPS

DRAWING NUMBER 91-153-A1

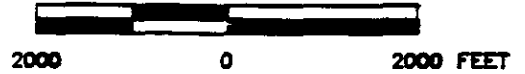


CALIFORNIA



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

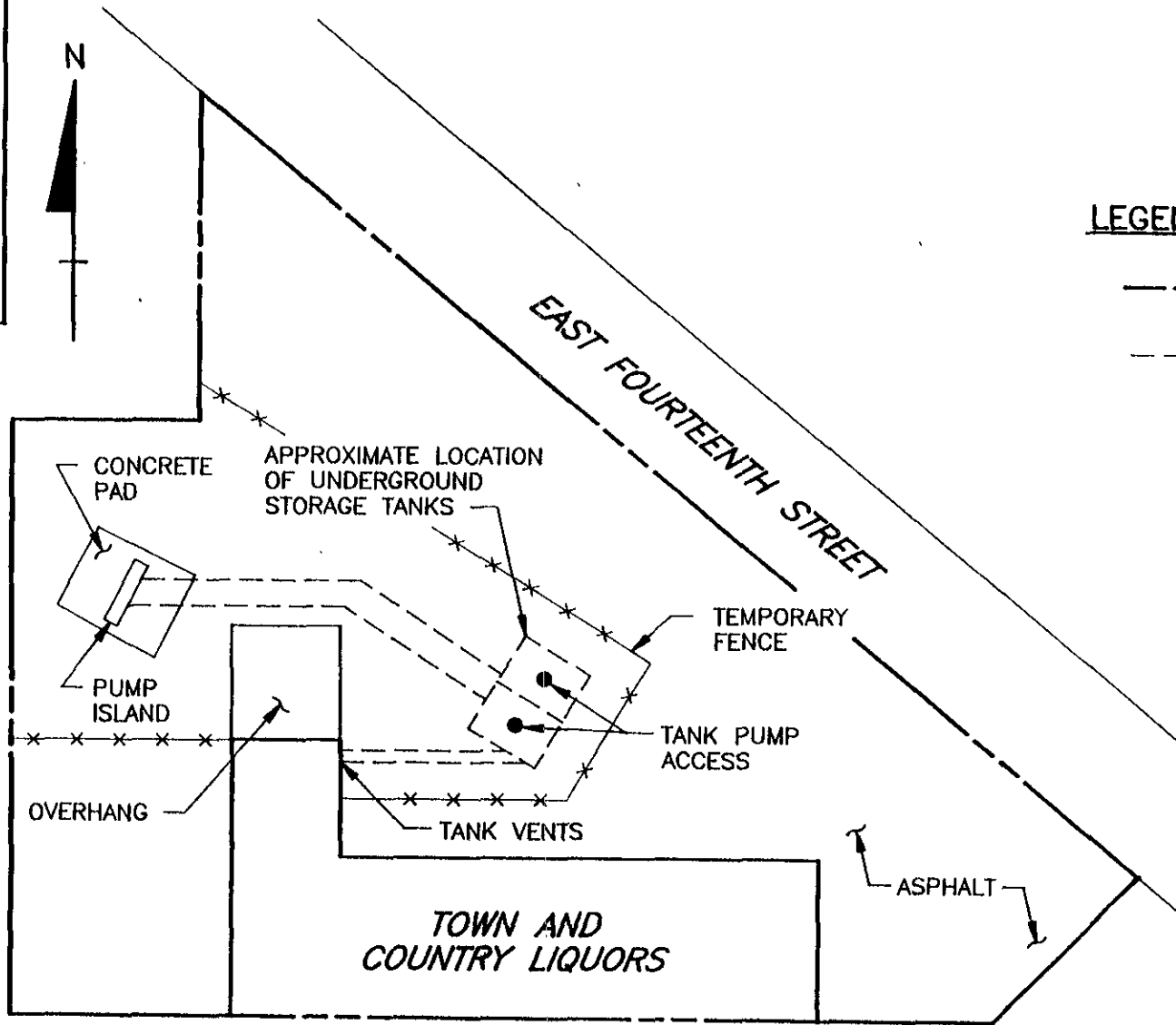
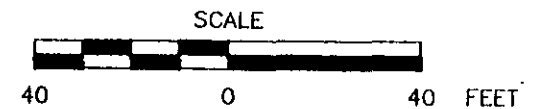
No.	DATE	ISSUE / REVISION	DRAWN BY	CHECKED BY	DATE: 6-24-91	FIGURE 1	DRAWING NUMBER 91-153-A1
					SCALE: AS SHOWN		

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

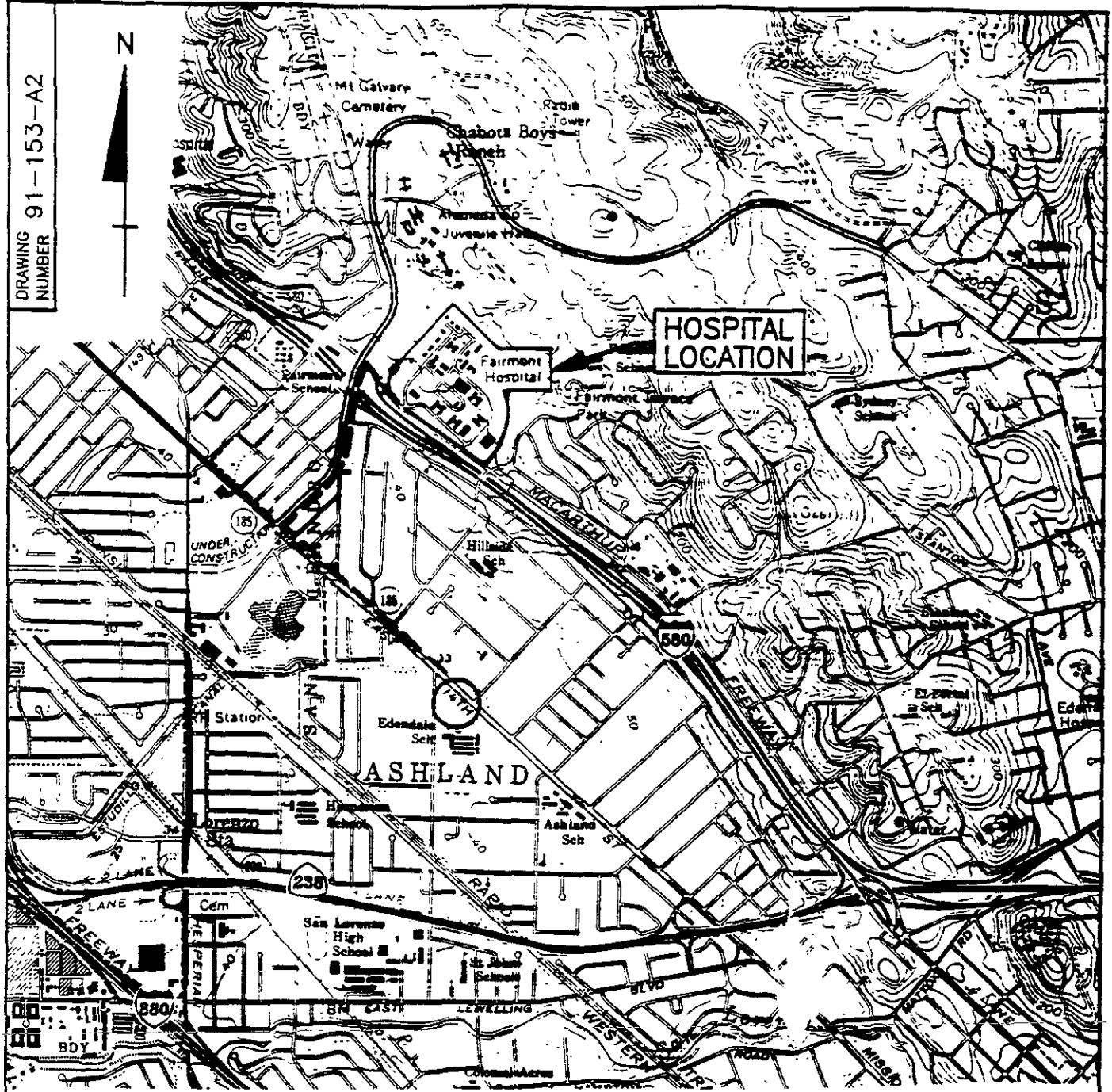
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No.	DATE	ISSUE / REVISION	DWN. BY	CK'D BY	AP'D BY

DATE: 6-24-91
SCALE: AS SHOWN

FIGURE 2

DRAWING NUMBER
91-153-A3

DRAWING NUMBER 91-153-A2

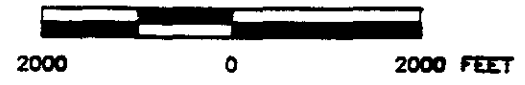


CALIFORNIA



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	DP	BLN		
No.	DATE	ISSUE / REVISION	OWN	BY/CR'D	BY/APP'D	DATE: 6-24-91 SCALE: AS SHOWN
						FIGURE 3
						DRAWING NUMBER 91-153-A2

ATTACHMENT B

MATERIAL SAFETY DATA SHEETS

MATERIAL SAFETY DATA SHEET

GENIUM PUBLISHING CORPORATION
1145 CATALYN STREET
SCHENECTADY, NY 12303-1838 USA
(518) 377-8855



No. 467

AUTOMOTIVE
GASOLINE, LEAD-FREE

Date October 1981

SECTION I. MATERIAL IDENTIFICATION				
MATERIAL NAME: AUTOMOTIVE GASOLINE, LEAD-FREE DESCRIPTION: A volatile blend of hydrocarbons for automotive fuel OTHER DESIGNATIONS: Petrol, CAS #008 006 619, ASTM D439 MANUFACTURER: Available from several suppliers.				
SECTION II. INGREDIENTS AND HAZARDS		x	HAZARD DATA	
Gasoline A hydrocarbon blend that can include normal and branched chain alkanes, cycloalkanes, alkenes, aromatics and other additives.** (Lead max 0.013 g/L, phosphorus max 0.0013 g/L, sulfur max 0.10 wt%. May contain benzene, <5%; see ASTM D3606). *ACGIH 1981 TLV (Intended Changes List). See also Am. Ind. Hyg. A. 39 110-117 (1978) **The composition of fuel is varied with altitude and seasonal requirements for a locality. The blend must meet antiknock requirements. (Antiknock Index min 85, ASTM D439.)		100	8-hr TWA 300 ppm or 900 mg/m ³ * Man Eye: 500 ppm/lH Moderate irritation Inhalation: TCl ₀ 900 ppm/lH TFX:CNS	
SECTION III. PHYSICAL DATA				
Distillation at 1 atm, Initial, deg C >39		Specific gravity, 60/60 F - 0.72-0.76		
50% distilled - 77-121		Melting point, deg C ----- -90.5-95.4		
End point ----- <240		Evaporation rate ----- N/A		
Vapor density (Air=1) ----- 3.0-4.0				
Solubility in water ----- Insoluble				
Appearance and Odor: A clear, mobile liquid with a characteristic odor which can be recognized at about 10 ppm in air. (Gasoline may be colored with dye.)				
SECTION IV. FIRE AND EXPLOSION DATA			LOWER	UPPER
Flash Point and Method	Autoignition Temp.	Flammability Limits in Air		
-45 F	536-833 F	% by volume	1.4	7.6
Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam. Use of water may be ineffective to extinguish fire, but use water spray for cooling fire-exposed drums and tanks to prevent pressure rupture. It is a dangerous fire and explosion hazard when exposed to heat and flames. Vapors can flow along surfaces, reach distant ignition sources and flash back. Can react violently with oxidizing agents. Firefighters should wear self-contained breathing apparatus and full protective clothing.				
SECTION V. REACTIVITY DATA				
This is a stable material in closed containers at room temperature under normal storage and handling conditions. It does not undergo hazardous polymerization. This is an OSHA Class IA flammable liquid. A mixture of gasoline vapors and air can be explosive. It is incompatible with oxidizing agents. Thermal-oxidative degradation can yield carbon monoxide and partially oxidized hydrocarbons.				

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>	
SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES	
<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>	
SECTION VIII. SPECIAL PROTECTION INFORMATION	
<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. Provide suitable training to those handling and working with this material.</p>	
SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS	
<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.) Avoid skin and eye contact. Avoid inhalation of vapors. Wear clean work clothing daily. 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>	
<p>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 assumes no warranties, 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.</p>	<p>APPROVALS: MIS CRD <i>J.M. Quinn</i></p> <p>Industrial Hygiene and Safety <i>JW 10-27-91</i></p> <p>MEDICAL REVIEW: 16 November 1981</p>

**Genium Publishing Corporation**1145 Catalyn Street
Schenectady, NY 12303-1836 USA
(518) 377-8854Sheet No. 470
Diesel Fuel Oil No. 2-D

Issued: 10/81

Revision: A, 11/90

33

Section 1. Material Identification

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.

Other Designations: CAS No. 68334-30-5, diesel fuel.

Manufacturer: Contact your supplier or distributor. Consult the latest *Chemicalweek Buyers' Guide*^(TM) for a suppliers list.

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.

R	1	NFPA
I	-	
S	2	
K	2	
HMIS		
H	0	
F	2	
R	0	
PPG*		
* Sec. 8		

Section 2. Ingredients and Occupational Exposure Limits

Diesel fuel oil No. 2-D*

1989 OSHA PEL
None established

1990-91 ACGIH TLV
Mineral Oil Mist
TWA: 5 mg/m³
STEL: 10 mg/m³

1988 NIOSH REL
None established

1985-86 Toxicity Data†
Rat, oral, LD₅₀: 9 g/kg produces gastrointestinal (hypermotility, diarrhea) effects

* Diesel fuel No. 2-D tends to be low in aromatics and high in paraffins. 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.

† As sampled by nonvapor-collecting method.

‡ Monitor NIOSH, RTECS (HZ180000), for future toxicity data.

Section 3. Physical Data

Boiling Point Range: 340 to 675 °F (171 to 358 °C)
Viscosity: 1.9 to 4.1 centistoke at 104 °F (40 °C)

Specific Gravity: <0.86
Water Solubility: Insoluble

Appearance and Odor: Brown, slightly viscous liquid.

Section 4. Fire and Explosion Data

Flash Point: 125 °F (52 °C) min.

Autoignition Temperature: >500 °F (932 °C)

LEL: 0.6% v/v

UEL: 7.5% v/v

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.

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.

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.

Section 5. Reactivity Data

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.

Chemical Incompatibilities: It is incompatible with strong oxidizing agents; heating greatly increases the fire hazard.

Conditions to Avoid: Avoid heat and ignition sources.

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.

No. 470 Diesel Fuel Oil No. 2-D 11/90

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 kerosene's, they are somewhat more pronounced due to additives such as sulfurized 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, dice 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.⁽¹⁰⁾

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: 173.115a

DOT Packaging Requirements: None

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

Prepared by: MJ Allison, BS; Industrial Hygiene Review: DJ Wilson, CIH; Medical Review: AC Darrington, MD; Edited by: JR Stuart, MS

ACORD. CERTIFICATE OF INSURANCE

316

ISSUE DATE (MM/DD/YY)

6/20/91

INSURER

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

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

[Signature]

APPENDIX B

UNIFORM HAZARDOUS WASTE MANIFESTS

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

90052394
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER, 1-800-424-9802, WITHIN CALIFORNIA CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A R 0 0 0 6 6 0 0 2	Manifest Document No. 71516132	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Garcia Enterprises, Inc. 16101 East 14th Street, San Leandro, CA 94578				A. State Manifest Document Number 90052394	
4. Generator's Phone (415) 351-6161				B. State Generator's ID	
5. Transporter 1 Company Name Erickson, Inc.		6. US EPA ID Number C A D P P P 4 6 5 3 9 2		C. State Transporter's ID 0019 205159	
7. Transporter 2 Company Name				D. Transporter's Phone (415) 235-1393	
8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address Gibson Pilot, J.V. 475 Seaport Blvd., Redwood City, CA 94604				G. State Facility's ID	
10. US EPA ID Number C A D P P 4 6 5 3 9 2				H. Facility's Phone (415) 368-5511	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ, HAZARDOUS WASTE LIQUID, N.O.S. FORM-E, NA 9129, (0015)(BENZENE)		0011	717001235	6	State: CA EPA/Other: 0015
b.					State: EPA/Other:
c.					State: EPA/Other:
d.					State: EPA/Other:
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information GIBSON PROFILE # R12-010 USE PROPER SAFETY GEAR, 24 HR. EMERGENCY CONTACT: ERE # 31 BRIAN WETSTEON 415 463 9117					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name ANTHONY J. GARCIA		Signature <i>Anthony J. Garcia</i>		Month Day Year 07/16/91	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name ROBERT CANEPA		Signature <i>Robert Canepa</i>		Month Day Year 07/16/91	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year	

Please print or type. Form designed for use on elite (12-pitch typewriter).

90573694
 IN CASE OF AN EMERGENCY OR SPIEL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8862 WITHIN 24 HOURS OF THE TIME OF THE INCIDENT. CALL 1-800-424-8862 FOR MORE INFORMATION.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAIC0000161092410	Manifest Document No. 000011	2. Page 1 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address GARCIA ENTERPRISES, INC 16101 EAST 14TH STREET, SAN LEANDRO, CA 94528				A. State Manifest Document Number 90573694		
4. Generator's Phone (415) 351-6161				B. State Generator's ID		
5. Transporter 1 Company Name TRIDENT TRUCK LINE INC		6. US EPA ID Number CAAD91824814370		C. State Transporter's ID 204340		D. Transporter's Phone (415) 783-2881
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone
9. Designated Facility Name and Site Address Erickson, Inc. 255 Parr Blvd. Richmond, Ca. 94801		10. US EPA ID Number CAAD001941663912		G. State Facility's ID		H. Facility's Phone (415) 235-1393
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit
a. Waste Empty Storage Tank				No.	Type	Wt/Vol
NON-RCRA Hazardous Waste Solid.				001	TF	10,000 P
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
Qty. <u>ONE</u> Empty Storage Tank (s) # <u>6651</u>				a.	b.	
Tank (s) have been inerted with 15 lbs. Dry Ice per 1000 Gal. Capacity. <u>10,000 GALLON WITH PUMPS AND PIPING</u>				c.	d.	
15. Special Handling Instructions and Additional Information						
Keep away from sources of ignition. Always wear hardhats when working around U.S.T.'s 24 Hr. Contact Name <u>BRIAN WETZSTEON</u> Phone <u>(415) 463-9117</u>						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name		Signature		Month Day Year		
AGENT FOR BRIAN WETZSTEON GARCIA ENT.		<i>Brian Wetzsteon</i>		10/7/1991		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
JOE FERRAZ		<i>Joe Ferraz</i>		07/1/91		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name		Signature		Month Day Year		

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CACD006092A0000002		Manifest Document No.		2. Page 1 1 of 1		Information in the shaded areas is not required by Federal law.						
3. Generator's Name and Mailing Address GARCIA ENTERPRISES, INC 16101 EAST 14TH STREET, SAN LEANARO, CA 94578						A. State Manifest Document Number 90392233								
4. Generator's Phone (415) 351-6161						B. State Generator's ID								
5. Transporter 1 Company Name TRIDENT TRUCK LINE, INC.			6. US EPA ID Number CAD932484370			C. State Transporter's ID 209337		D. Transporter's Phone (415) 783-2881						
7. Transporter 2 Company Name						8. US EPA ID Number		E. State Transporter's ID						
9. Designated Facility Name and Site Address ERICKSON INCORPORATED 255 PARK BLVD. RICHMOND, CA. 94801						10. US EPA ID Number CAD009466392		G. State Facility's ID CAD009466392						
						H. Facility's Phone (415) 235-1393								
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.		
a. EMPTY TANK NON-RCRA HAZARDOUS WASTE SOLID						001 T-08000 P		SW 10 000				State 512		
b.												EPA/Other NONE		
c.												State		
d.												EPA/Other		
J. Additional Descriptions for Materials Listed Above QUANTITY 1 EMPTY STORAGE TANK(S) 6650 HAVE BEEN INSERTED WITH 15 LBS. DRY ICE PER 1000 GAL. CAPACITY						K. Handling Codes for Wastes Listed Above								
15. Special Handling Instructions and Additional Information KEEP AWAY FROM SOURCES OF IGNITION.. ALWAYS WEAR HARDHATS AND GLASSES WHEN WORKING AROUND UNDERGROUND STORAGE TANKS. 24 HR. CONTACT NAME: BRIAN WETSTEON AND PHONE: (415) 463-9117														
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.														
Printed/Typed Name AGENT FOR BRIAN WETSTEON GARCIA ENT.			Signature <i>Brian Wetsteon</i>			Month Day Year 07 1 781								
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name WAINE MEYER			Signature <i>Waine Meyer</i>			Month Day Year 07 1 79 1		
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name			Signature			Month Day Year		
19. Discrepancy Indication Space														
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Printed/Typed Name			Signature			Month Day Year		

90392233
 GENERATOR
 IN CASE OF AN EMERGENCY OR FIRE, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA CALL 1-800-552-7333

APPENDIX C

CERTIFIED LABORATORY ANALYTICAL REPORTS



212 FRANK WEST CIRCLE
SUITE A
STOCKTON, CA 95206
PHONE: (209) 983-1340
FAX: 209-983-0304

RECEIVED
AUG 19 1991
Ass'd.....

August 15, 1991

Work Order #:
LP # 11635
Garcia Enterprises
Resubmitted Data

JK
Mr. Brian Wetzsteon
Canonie Environmental
7901 Stoneridge Drive, Ste 100
Pleasanton, CA 94588

Dear Mr. Wetzsteon:

Enclosed are the resubmitted data for results based on a dry weight basis.

Unless otherwise instructed, samples will be returned to you two weeks from the date of this letter.

If you have any questions, please call me at (209) 983-1340.

Very truly yours,

Lynda W. Kelly
Lynda W. Kelly
Project Manager

LWK/ldv

Enclosure

WESTON

Laboratory Report for

Mr. Brian Wetzsteon
Canonie Environmental
7901 Stoneridge Drive, Ste 100
Pleasanton, CA 94588

August 15, 1991

By

Roy F. Weston, Inc.
212 Frank West Circle, Suite A
Stockton, CA 95206
(209) 983-1340

Work Order #:
LP #:11635



Roy F. Weston, Inc. - Stockton Laboratory
Case Narrative

Client: GARCIA ENTERPRISES
LP #: 11635

Project #: W90160


Volatiles Case Narrative

TVH analysis:

This analysis consisted of 12 soils.
The initial and continuing calibration criteria was met for this analysis.
The method blank associated with this group of samples were free of target analyte interferences at, or above, the reporting limits.
There was no surrogate used in this analysis.
Spike recoveries were within acceptable limits.

BTEX Analysis:

This narrative covers the analysis of twelve soil samples. The analytical holding time for this analysis was met, with the exception of samples T-3, SAND-1, SAND-2, SOUTH PILE and NORTH PILE. Initial analysis was performed within holding time, however, due to high hydrocarbon content, samples were extracted and analyzed by high level analysis outside of holding time. Sample T-3 was re-analyzed outside of holding time due to low surrogate recoveries. Initial and continuing calibration criteria was met for this analysis.
Surrogate recoveries were within acceptable limits.
Spike recoveries were within acceptable limits with the exception of Benzene on 7/31/91 which had high recoveries. The RPD values for the spikes were within acceptable limits. The method blanks associated with this group of samples were free from target analyte interferences at, or above, the reporting limits.
All necessary confirmation analysis was performed by GCMS, outside of holding time.



G.R. Adams
Unit Leader

8-9-91

Date



Roy F. Weston, Inc. - Stockton Laboratory
Case Narrative

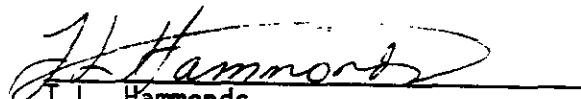
Client: GARCIA ENTERPRISES
LP #: 11635

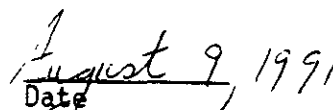
Project #: W90160

Inorganics Case Narrative

Analysis completed in accordance with the methods cited with the exceptions noted below.

The matrix spike recovery was null. Post spike recovery as well as lab control sample recoveries were in control.


T.L. Hammonds
Unit Leader


Date

WESTON

Roy F. Weston, Inc. - Stockton Laboratory
Case Narrative

Client: GARCIA ENTERPRISES
LP #: 11635

Project #: W90160

Extractions Pest. Case Narrative

ETEH-S/3550

All samples in batch E072591TR2 were extracted within the
required holding time using method 3550.

J.M. Parker
J.M. Parker
Unit Leader

August 9, 1991
Date




Roy F. Weston, Inc. - Stockton Laboratory

Case Narrative

Client: GARCIA ENTERPRISES
RFW #: 11635

EXTRACTABLE PETROLEUM HYDROCARBONS

1. This narrative covers the analysis of 10 samples in accordance with SW-846, method 8015 modified.
2. The analytical holding time for this analysis was met.
3. Initial and continuing calibration criteria were met for this analysis.
4. The method blank did not contain any interfering peaks at or above the reporting limit.
5. Surrogates were not used in this analysis.
6. The blank spike recoveries and the RPD for the spikes were within acceptable limits.
7. The matrix spike recoveries and the RPD for the spikes were within acceptable limits. The matrix spike extract was highly colored, and a diluted analysis was required, which did not affect recovery results.



D.D. Jenner
Unit Leader

8/2/91
Date

Client: GARCIA ENTERPRISES
 Sample ID: T-1
 Matrix: SOLID
 Lab ID: 866271-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 74.7 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : I080791RJ1
 Date Analyzed: 8/07/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Organic Lead Analysis

Analyte	Result*	Reporting Limit	Units	Method
Organic Lead	ND	6.7	mg/kg	LUFT

Tested By : RAJ
 Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: T-1
 Matrix: SOLID
 Lab ID: 866271-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 74.7 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Date Extracted: 7/25/91
 Date Analyzed: 7/31/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Extract Hydrocarbons (TPH-D)

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	ND	1.3	mg/kg	LUFT

Tested By : KNS
 Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: T-1
 Matrix: SOLID
 Lab ID: 866271-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 74.7 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V073191AB1
 Date Analyzed: 7/31/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: BTEX

Analyte	Result*	Reporting Limit	Units	Method
Benzene	ND	.034	mg/kg	EPA 8020
Toluene	ND	.034	mg/kg	
Ethylbenzene	ND	.034	mg/kg	
Xylene	ND	.034	mg/kg	

Tested By : PRY
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: T-1
 Matrix: SOLID
 Lab ID: 866271-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 74.7 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V072691MM1
 Date Analyzed: 7/26/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Volatile Hydrocarbons (TPH-G)

Analyte	Result*	Reporting Limit	Units	Method
Total Volatile Hydrocarbons	ND	1.3	mg/kg	LUFT

Tested By : MAM/PJ
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES

Sample ID: T-2

Matrix: SOLID

Lab ID: 866272-SA-A

Project #: W90160

Starting Depth: 0.00

Percent Solids: 84.0 %

LP #: 11635

Date Sampled: 7/17/1991

Date Received: 7/20/1991

Q.C. Batch # : I080791RJ1

Date Analyzed: 8/07/1991

Date Reported: 8/15/1991

Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Organic Lead Analysis

Analyte	Result*	Reporting Limit	Units	Method
Organic Lead	ND	6.0	mg/kg	LUFT

Tested By : RAJ

Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: T-2
 Matrix: SOLID
 Lab ID: 866272-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 84.0 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Date Extracted: 7/25/91
 Date Analyzed: 7/31/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Extract Hydrocarbons (TPH-D)

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	ND	1.2	mg/kg	LUFT

Tested By : KNS
 Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: T-2
 Matrix: SOLID
 Lab ID: 866272-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 84.0 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V073191AB1
 Date Analyzed: 7/31/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: BTEX

Analyte	Result*	Reporting Limit	Units	Method
Benzene	ND	.03	mg/kg	EPA 8020
Toluene	ND	.03	mg/kg	
Ethylbenzene	ND	.03	mg/kg	
Xylene	ND	.03	mg/kg	

Tested By : PRY
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: T-2
 Matrix: SOLID
 Lab ID: 866272-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 84.0 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V072691MM1
 Date Analyzed: 7/26/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Volatile Hydrocarbons (TPH-G)

```

=====
Analyte                               Result*   Reporting   Units   Method
                               Limit
=====
Total Volatile Hydrocarbons          ND         1.2      mg/kg   LUFT
    
```

Tested By : MAM/PJ
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: T-3
 Matrix: SOLID
 Lab ID: 866273-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 80.2 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : I080791RJ1
 Date Analyzed: 8/07/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Organic Lead Analysis

Analyte	Result*	Reporting Limit	Units	Method
Organic Lead	ND	6.2	mg/kg	LUFT

Tested By : RAJ
 Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/17/1991
Sample ID: T-3	Date Received: 7/20/1991
Matrix: SOLID	Date Extracted: 7/25/91
Lab ID: 866273-SA-A	Date Analyzed: 7/31/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 80.2 %	
LP #: 11635	

All results reported on a dry weight basis.

Test Description: Total Extract Hydrocarbons (TPH-D)

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	ND	1.2	mg/kg	LUFT

Tested By : KNS
 Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES

Sample ID: T-3

Matrix: SOLID

Lab ID: 866273-SA-A

Project #: W90160

Starting Depth: 0.00

Percent Solids: 80.2 %

LP #: 11635

Date Sampled: 7/17/1991

Date Received: 7/20/1991

Q.C. Batch # : V080891AB1

Date Analyzed: 8/08/1991

Date Reported: 8/15/1991

Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: BTEX

Analyte	Result*	Reporting Limit	Units	Method
Benzene	ND	.031	mg/kg	EPA 8020
Toluene	ND	.031	mg/kg	
Ethylbenzene	ND	.031	mg/kg	
Xylene	ND	.031	mg/kg	

Tested By : PRY
Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: T-3
 Matrix: SOLID
 Lab ID: 866273-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 80.2 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V072591MM1
 Date Analyzed: 7/25/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Volatile Hydrocarbons (TPH-G)

Analyte	Result*	Reporting Limit	Units	Method
Total Volatile Hydrocarbons	ND	1.2	mg/kg	LUFT

Tested By : MAM/PJ
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/17/1991
Sample ID: PUMPS	Date Received: 7/20/1991
Matrix: SOLID	Q.C. Batch # : I080791RJ1
Lab ID: 866274-SA-A	Date Analyzed: 8/07/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 87.4 %	
LP #: 11635	

All results reported on a dry weight basis.

Test Description: Organic Lead Analysis

Analyte	Result*	Reporting Limit	Units	Method
Organic Lead	ND	5.7	mg/kg	LUFT

Tested By : RAJ
 Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: PUMPS
 Matrix: SOLID
 Lab ID: 866274-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 87.4 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Date Extracted: 7/25/91
 Date Analyzed: 7/31/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Extract Hydrocarbons (TPH-D)

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	ND	1.1	mg/kg	LUFT

Tested By : KNS
 Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: PUMPS
 Matrix: SOLID
 Lab ID: 866274-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 87.4 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V073191AB1
 Date Analyzed: 7/31/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: BTEX

Analyte	Result*	Reporting Limit	Units	Method
Benzene	.16	.029	mg/kg	EPA 8020
Toluene	.217	.029	mg/kg	
Ethylbenzene	ND	.029	mg/kg	
Xylene	ND	.029	mg/kg	

Tested By : PRY
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: PUMPS
 Matrix: SOLID
 Lab ID: 866274-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 87.4 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V072591MM1
 Date Analyzed: 7/25/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Volatile Hydrocarbons (TPH-G)

Analyte	Result*	Reporting Limit	Units	Method
Total Volatile Hydrocarbons	ND	1.1	mg/kg	LUFT

Tested By : MAM/PJ
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: NE-9.5'
 Matrix: SOLID
 Lab ID: 866276-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 75.0 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : I080791RJ1
 Date Analyzed: 8/07/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Organic Lead Analysis

Analyte	Result*	Reporting Limit	Units	Method
Organic Lead	ND	6.7	mg/kg	LUFT

Tested By : RAJ
 Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/17/1991
Sample ID: NE-9.5'	Date Received: 7/20/1991
Matrix: SOLID	Date Extracted: 7/25/91
Lab ID: 866276-SA-A	Date Analyzed: 7/31/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 75.0 %	LP #: 11635

All results reported on a dry weight basis.

Test Description: Total Extract Hydrocarbons (TPH-D)

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	15.	1.3	mg/kg	LUFT

Tested By : KNS
 Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: NE-9.5'
 Matrix: SOLID
 Lab ID: 866276-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 75.0 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V073191AB1
 Date Analyzed: 7/31/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: BTEX

Analyte	Result*	Reporting Limit	Units	Method
Benzene	ND	.033	mg/kg	EPA 8020
Toluene	ND	.033	mg/kg	
Ethylbenzene	ND	.033	mg/kg	
Xylene	ND	.033	mg/kg	

Tested By : PRY
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: NE-9.5'
 Matrix: SOLID
 Lab ID: 866276-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 75.0 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V072691MM1
 Date Analyzed: 7/26/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Volatile Hydrocarbons (TPH-G)

Analyte	Result*	Reporting Limit	Units	Method
Total Volatile Hydrocarbons	ND	1.3	mg/kg	LUFT

Tested By : MAM/PJ
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: NW-10'
 Matrix: SOLID
 Lab ID: 866277-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 73.8 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : I080791RJ1
 Date Analyzed: 8/07/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Organic Lead Analysis

Analyte	Result*	Reporting Limit	Units	Method
Organic Lead	ND	6.8	mg/kg	LUFT

Tested By : RAJ
 Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: NW-10'
 Matrix: SOLID
 Lab ID: 866277-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 73.8 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Date Extracted: 7/25/91
 Date Analyzed: 8/01/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Extract Hydrocarbons (TPH-D)

=====

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	ND	1.4	mg/kg	LUFT

=====

Tested By : KNS
 Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/17/1991
Sample ID: NW-10'	Date Received: 7/20/1991
Matrix: SOLID	Q.C. Batch # : V073191AB1
Lab ID: 866277-SA-A	Date Analyzed: 7/31/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 73.8 %	LP #: 11635

All results reported on a dry weight basis.

Test Description: BTEX

Analyte	Result*	Reporting Limit	Units	Method
Benzene	ND	.034	mg/kg	EPA 8020
Toluene	ND	.034	mg/kg	
Ethylbenzene	ND	.034	mg/kg	
Xylene	ND	.034	mg/kg	

Tested By : PRY
Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: NW-10'
 Matrix: SOLID
 Lab ID: 866277-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 73.8 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V072691MM1
 Date Analyzed: 7/26/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Volatile Hydrocarbons (TPH-G)

Analyte	Result*	Reporting Limit	Units	Method
Total Volatile Hydrocarbons	ND	1.4	mg/kg	LUFT

Tested By : MAM/PJ
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/17/1991
Sample ID: SE-9.5'	Date Received: 7/20/1991
Matrix: SOLID	Q.C. Batch # : I080791RJ1
Lab ID: 866278-SA-A	Date Analyzed: 8/07/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 73.0 %	LP #: 11635

All results reported on a dry weight basis.

Test Description: Organic Lead Analysis

Analyte	Result*	Reporting Limit	Units	Method
Organic Lead	ND	6.8	mg/kg	LUFT

Tested By : RAJ
 Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/17/1991
Sample ID: SE-9.5'	Date Received: 7/20/1991
Matrix: SOLID	Date Extracted: 7/25/91
Lab ID: 866278-SA-A	Date Analyzed: 7/31/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 73.0 %	LP #: 11635

All results reported on a dry weight basis.

Test Description: Total Extract Hydrocarbons (TPH-D)

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	ND	1.4	mg/kg	LUFT

Tested By : KNS
 Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: SE-9.5'
 Matrix: SOLID
 Lab ID: 866278-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 73.0 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V080191AB1
 Date Analyzed: 8/01/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: BTEX

Analyte	Result*	Reporting Limit	Units	Method
Benzene	ND	.034	mg/kg	EPA 8020
Toluene	ND	.034	mg/kg	
Ethylbenzene	ND	.034	mg/kg	
Xylene	ND	.034	mg/kg	

Tested By : PRY
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/17/1991
Sample ID: SE-9.5'	Date Received: 7/20/1991
Matrix: SOLID	Q.C. Batch # : V072691MM1
Lab ID: 866278-SA-A	Date Analyzed: 7/26/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 73.0 %	
LP #: 11635	

All results reported on a dry weight basis.

Test Description: Total Volatile Hydrocarbons (TPH-G)

Analyte	Result*	Reporting Limit	Units	Method
Total Volatile Hydrocarbons	ND	1.4	mg/kg	LUFT

Tested By : MAM/PJ
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: SW-10'
 Matrix: SOLID
 Lab ID: 866279-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 81.9 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : I080791RJ1
 Date Analyzed: 8/07/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Organic Lead Analysis

Analyte	Result*	Reporting Limit	Units	Method
Organic Lead	ND	6.1	mg/kg	LUFT

Tested By : RAJ
 Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/17/1991
Sample ID: SW-10'	Date Received: 7/20/1991
Matrix: SOLID	Date Extracted: 7/25/91
Lab ID: 866279-SA-A	Date Analyzed: 7/31/1991
Project #: W90160 LP #: 11635	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 81.9 %	

All results reported on a dry weight basis.

Test Description: Total Extract Hydrocarbons (TPH-D)

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	ND	1.2	mg/kg	LUFT

Tested By : KNS
 Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: SW-10'
 Matrix: SOLID
 Lab ID: 866279-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 81.9 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V080191AB1
 Date Analyzed: 8/01/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: BTEX

=====

Analyte	Result*	Reporting Limit	Units	Method
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=====

Benzene	ND	.03	mg/kg	EPA 8020
Toluene	ND	.03	mg/kg	
Ethylbenzene	ND	.03	mg/kg	
Xylene	ND	.03	mg/kg	

Tested By : PRY
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: SW-10'
 Matrix: SOLID
 Lab ID: 866279-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 81.9 %

LP #: 11635

Date Sampled: 7/17/1991
 Date Received: 7/20/1991
 Q.C. Batch # : V072691MM1
 Date Analyzed: 7/26/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Volatile Hydrocarbons (TPH-G)

Analyte	Result*	Reporting Limit	Units	Method
Total Volatile Hydrocarbons	ND	1.2	mg/kg	LUFT

Tested By : MAM/PJ
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/19/1991
Sample ID: NORTH PILE	Date Received: 7/20/1991
Matrix: SOLID	Q.C. Batch # : I080791RJ1
Lab ID: 866280-SA-A	Date Analyzed: 8/07/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 84.0 %	
LP #: 11635	

All results reported on a dry weight basis.

Test Description: Organic Lead Analysis

Analyte	Result*	Reporting Limit	Units	Method
Organic Lead	ND	6.0	mg/kg	LUFT

Tested By : RAJ
 Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: NORTH PILE
 Matrix: SOLID
 Lab ID: 866280-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 84.0 %

LP #: 11635

Date Sampled: 7/19/1991
 Date Received: 7/20/1991
 Date Extracted: 7/25/91
 Date Analyzed: 7/31/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Extract Hydrocarbons (TPH-D)

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	43.	1.2	mg/kg	LUFT

Tested By : KNS
 Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/19/1991
Sample ID: NORTH PILE	Date Received: 7/20/1991
Matrix: SOLID	Q.C. Batch # : V080891AB1
Lab ID: 866280-SA-A	Date Analyzed: 8/08/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 84.0 %	
LP #: 11635	

All results reported on a dry weight basis.

Test Description: BTEX

Analyte	Result*	Reporting Limit	Units	Method
Benzene	ND	.03	mg/kg	EPA 8020
Toluene	ND	.03	mg/kg	
Ethylbenzene	ND	.03	mg/kg	
Xylene	.595	.03	mg/kg	

Tested By : PRY
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/19/1991
Sample ID: NORTH PILE	Date Received: 7/20/1991
Matrix: SOLID	Q.C. Batch # : V072691MM1
Lab ID: 866280-SA-A	Date Analyzed: 7/26/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 84.0 %	LP #: 11635

All results reported on a dry weight basis.

Test Description: Total Volatile Hydrocarbons (TPH-G)

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=====
Analyte                               Result*   Reporting   Units   Method
                               Limit
=====
Total Volatile Hydrocarbons          ND         1.2      mg/kg   LUFT
=====
    
```

Tested By : MAM/PJ
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/19/1991
Sample ID: SOUTH PILE	Date Received: 7/20/1991
Matrix: SOLID	Q.C. Batch # : I080791RJ1
Lab ID: 866281-SA-A	Date Analyzed: 8/07/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 79.4 %	LP #: 11635

All results reported on a dry weight basis.

Test Description: Organic Lead Analysis

```

=====
Analyte                               Result*   Reporting   Units   Method
                               Limit
=====
Organic Lead                       ND         6.3       mg/kg   LUFT
=====
    
```

Tested By : RAJ
 Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
 Sample ID: SOUTH PILE
 Matrix: SOLID
 Lab ID: 866281-SA-A
 Project #: W90160
 Starting Depth: 0.00
 Percent Solids: 79.4 %

LP #: 11635

Date Sampled: 7/19/1991
 Date Received: 7/20/1991
 Date Extracted: 7/25/91
 Date Analyzed: 7/31/1991
 Date Reported: 8/15/1991
 Ending Depth: 0.00

All results reported on a dry weight basis.

Test Description: Total Extract Hydrocarbons (TPH-D)

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	1.3	1.3	mg/kg	LUFT

Tested By : KNS
 Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/19/1991
Sample ID: SOUTH PILE	Date Received: 7/20/1991
Matrix: SOLID	Q.C. Batch # : V080791AB1
Lab ID: 866281-SA-A	Date Analyzed: 8/07/1991
Project #: W90160	Date Reported: 8/15/1991
LP #: 11635	Ending Depth: 0.00
Starting Depth: 0.00	
Percent Solids: 79.4 %	

All results reported on a dry weight basis.

Test Description: BTEX

Analyte	Result*	Reporting Limit	Units	Method
Benzene	ND	.032	mg/kg	EPA 8020
Toluene	ND	.032	mg/kg	
Ethylbenzene	ND	.032	mg/kg	
Xylene	ND	.032	mg/kg	

Tested By : PRY
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES	Date Sampled: 7/19/1991
Sample ID: SOUTH PILE	Date Received: 7/20/1991
Matrix: SOLID	Q.C. Batch # : V072691MM1
Lab ID: 866281-SA-A	Date Analyzed: 7/26/1991
Project #: W90160	Date Reported: 8/15/1991
Starting Depth: 0.00	Ending Depth: 0.00
Percent Solids: 79.4 %	LP #: 11635

All results reported on a dry weight basis.

Test Description: Total Volatile Hydrocarbons (TPH-G)

```

=====
Analyte                               Result*   Reporting   Units   Method
                               Limit
=====
Total Volatile Hydrocarbons          ND         1.3      mg/kg   LUFT
=====
    
```

Tested By : MAM/PJ
 Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Custody Transfer Record/Lab Work Request



WESTON Analytics Use Only

LP# 11635 (S₀₁) LP# 11636 (S₀₂)

Client CANONIE ENVIRONMENTAL
 Work Order GARCIA QUOTE P-91-2605
 Date Rec'd. 7-20-91 Date Due _____
 RFW Contact _____
 Client Contact/Phone _____

Refrigerator#	
#/Type Container	
Volume	
Preservative	
ANALYSES REQUESTED	TPHG (L _{UFT}) BTEX P020 ORGANIC LEAD (L _{UFT}) TPHD Pb Total <u>Sub</u>

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected	TPHG (L _{UFT})	BTEX P020	ORGANIC LEAD (L _{UFT})	TPHD	Pb Total
86671A	T-1	S	7-17-91	X	X	X	X	
72A	T-2	S	7-17-91	X	X	X	X	
73A	T-3	S	7-17-91	X	X	X	X	
74A	PUMPS	S	7-17-91	X	X	X	X	
86675A	WS-1 LP# 11636	W	7-17-91	X	X	X	X	<u>EX 3 LITERS, 1 VOA</u>
76A	NE-9.5'	S	7-17-91	X	X	X	X	
77A	NW-10'	S	7-17-91	X	X	X	X	
78A	SE-9.5'	S	7-17-91	X	X	X	X	
79A	SW-10'	S	7-17-91	X	X	X	X	
80A	SAND - NORTH PILE	S	7-19-91	X	X	X	X	
81A	SAND - SOUTH PILE	S	7-19-91	X	X	X	X	
86674A	WS-2 Sub 866284	W	7-19-91	X	X	X	X	

Matrix: W - Water DS - Drum Solids X - Other Special Instructions: REPORT RESULTS TO BRIAN
 S - Soil O - Oil DL - Drum Liquids WESTON (415) 463-9117 AT CANONIE
 SE - Sediment A - Air F - Fish 14 DAY DAT
 SO - Solid WI - Wipe L - EP/TCLP Leachate

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
COOLER	<u>Brian W</u>	<u>F. D. Ex</u>	<u>7-19-91</u>	<u>4:00</u>					

WESTON Analytics Use Only

1 Samples Were Shipped or Hand-Delivered Sub

NOTES:

2 Ambient or Chilled Sub

NOTES

3 Received Broken/Leaking (Improperly Sealed) Y N

NOTES

4 Properly Preserved Y N

NOTES

5 Received Within Holding Times Y N

NOTES

COC Tape Was:

1 Present on Outer Package Y N

2 Unbroken on Outer Package Y N

3 Present on Sample Y N

4 Unbroken on Sample Y N

NOTES:

COC Record Was:

1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N

NOTES:

... collected to see per Brian...
 The Pb showed to total Pb in WS-2 & WS-1, OIA Pb was not a method 7/20/91



212 FRANK WEST CIRCLE
SUITE A
STOCKTON CA 95206
PHONE (209) 983-1340
FAX 209-983-0304

August 9, 1991

Work Order #:
LP #: 11636
Garcia Enterprises

Mr. Brian Wetzsteon
Canonie Environmental
7901 Stoneridge Drive, Suite 100
Pleasanton, CA 94588

Dear Mr. Wetzsteon:

Enclosed are the laboratory results for samples submitted to Weston Analytics Division.

Unless otherwise instructed, samples will be returned to you two weeks from the date of this letter.

If you have any questions, please call me at (209) 983-1340.

Very truly yours,

A handwritten signature in cursive script that reads "Lynda Kelly".

Lynda W. Kelly
Project Manager

LWK/pry

Enclosure

WESTON

Laboratory Report for

Mr. Brian Wetzsteon
Canonie Environmental
7901 Stoneridge Drive, Suite 100
Pleasanton, CA 94588

August 9, 1991

By

Roy F. Weston, Inc.
212 Frank West Circle, Suite A
Stockton, CA 95206
(209) 983-1340

Work Order #:
LP #:11636

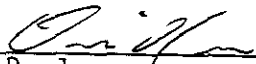


Case Narrative

Client: GARCIA ENTERPRISES
RFW #: 11636

EXTRACTABLE PETROLEUM HYDROCARBONS

1. This narrative covers the analysis of 2 samples in accordance with SW-846, method 8015 modified.
2. The analytical holding time for this analysis was met.
3. Initial and continuing calibration criteria were met for this analysis.
4. The method blank did not contain any interfering peaks at or above the reporting limit.
5. Surrogates were not used in this analysis.
6. The blank spike recoveries and the RPD for the spikes were within acceptable limits.



D.D. Jenner
Unit Leader

8/9/91

Date

WESTON

Roy F. Weston, Inc. - Stockton Laboratory
Case Narrative

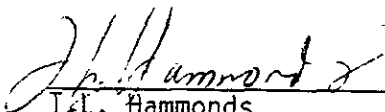
Client: GARCIA ENTERPRISES
LP #: 11636

Project #: W90160

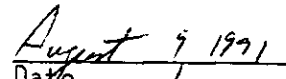
Inorganics Case Narrative

Analyses completed in accordance with EPA method 239.2 with the exception noted below.

The matrix spike recovery on sample "WS-1" (866275) was below the 75% control limit.



T.L. Hammonds
Unit Leader



Date



Roy F. Weston, Inc. - Stockton Laboratory
Case Narrative

Client: GARCIA ENTERPRISES
LP #: 11636

Project #: W90160


Volatiles Case Narrative

TVH analysis:

1. This narrative covers the analysis of two (2) waters.
2. All required holding times have been met.
3. Initial calibration criteria has been met for this analysis.
4. Continuing calibration criteria has been met for this analysis.
5. The method blank associated with this group of samples were free of target analyte interferences at, or above, the reporting limits.
6. There was no surrogate used in this analysis.
7. Spike recoveries were within acceptable limits.
8. Only one vial was received for analysis on sample ID WS-1

BTEX Analysis:

1. This narrative covers the analysis of two water samples.
2. Primary analysis was performed within holding time. Confirmation analysis was performed using the TVH scan. The TVH scan was analyzed within holding time on a dissimilar detector. This scan confirmed any positives obtained from the primary quantitation instrument.
3. Initial calibration for this analysis was low.
4. Continuing calibration criteria was met for this analysis.
5. The method blank associated with this group of samples was free from target analyte interferences at, or above, the reporting limits.
6. Surrogate recoveries were within acceptable limits.
7. Spike recoveries and RPD values were within acceptable limits.
8. Only one sample vial was provided for sample WS-1.
9. Due to constraints on sample amount for WS-1, dilution analysis for this sample was obtained by GCMS. This analysis was performed one day outside of holding time.


G.R. Adams
Unit Leader

8-9-91
Date

WESTON

Roy F. Weston, Inc. - Stockton Laboratory
Case Narrative

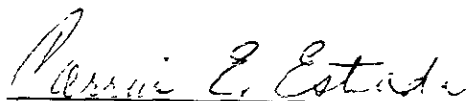
Client: GARCIA ENTERPRISES
LP #: 11636

Project #: W90160

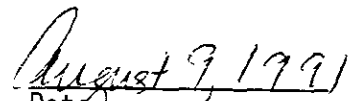
Extractions Pest. Case Narrative

ETEH-W/3520

All samples in batch E072591TR1 were extracted within the required holding time using method 3520.



J.M. Parker
Unit Leader



Date

Roy F. Weston, Inc. - Stockton Laboratory
Final Report

Client: GARCIA ENTERPRISES
Sample ID: WS-1
Matrix: LIQUID
Lab ID: 866275-SA-D
Project #: W90160.
Starting Depth: 0.00

LP #: 11636

Date Sampled: 7/17/1991
Date Received: 7/20/1991
QC Batch # : I072691PS9
Date Analyzed: 7/26/1991
Date Reported: 8/09/1991
Ending Depth: 0.00

Test Description: Total Metals Analysis

=====

Analyte	Result*	Reporting Limit	Units	Method
Lead	0.021	0.005	mg/L	EPA 239.2

=====

Tested By : RAJ
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Roy F. Weston, Inc. - Stockton Laboratory
Final Report

Client: GARCIA ENTERPRISES
Sample ID: WS-1
Matrix: LIQUID
Lab ID: 866275-SA-E
Project #: W90160. LP #: 11636
Starting Depth: 0.00
Date Sampled: 7/17/1991
Date Received: 7/20/1991
QC Batch # : 07/25/91
Date Analyzed: 7/30/1991
Date Reported: 8/09/1991
Ending Depth: 0.00

Test Description: Total Extract Hydrocarbons (TPH-D)

=====

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	0.43	0.050	mg/L	LUFT

=====

Tested By : KNS
Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Roy F. Weston, Inc. - Stockton Laboratory
Final Report

Client: GARCIA ENTERPRISES
Sample ID: WS-1
Matrix: LIQUID
Lab ID: 866275-SA-A
Project #: W90160.
Starting Depth: 0.00

LP #: 11636

Date Sampled: 7/17/1991
Date Received: 7/20/1991
QC Batch # : V073191AB1
Date Analyzed: 7/31/1991
Date Reported: 8/09/1991
Ending Depth: 0.00

Test Description: BTEX Analysis

Analyte	Result*	Reporting Limit	Units	Method
Benzene	33.	0.50	ug/L	EPA 602
Toluene	84.	0.50	ug/L	
Ethylbenzene	20.	0.50	ug/L	
Xylene	130.	0.50	ug/L	

Tested By : AMB/PJ
Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Roy F. Weston, Inc. - Stockton Laboratory
Final Report

Client: GARCIA ENTERPRISES
Sample ID: WS-1
Matrix: LIQUID
Lab ID: 866275-SA-A
Project #: W90160.
Starting Depth: 0.00

LP #: 11636

Date Sampled: 7/17/1991
Date Received: 7/20/1991
QC Batch # : V073091MM1
Date Analyzed: 7/30/1991
Date Reported: 8/09/1991
Ending Depth: 0.00

Test Description: Total Volatile Hydrocarbons (TPH-G)

=====				
Analyte	Result*	Reporting Limit	Units	Method
=====				
Total Volatile Hydrocarbons	3400.	20.	ug/L	LUFT

Tested By : MAM/PJ
Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Roy F. Weston, Inc. - Stockton Laboratory
Final Report

Client: GARCIA ENTERPRISES
Sample ID: WS-2
Matrix: LIQUID
Lab ID: 866284-SA-A
Project #: W90160.
Starting Depth: 0.00

LP #: 11636

Date Sampled: 7/19/1991
Date Received: 7/20/1991
QC Batch # : I072691PS9
Date Analyzed: 7/26/1991
Date Reported: 8/09/1991
Ending Depth: 0.00

Test Description: Total Metals Analysis

=====

Analyte	Result*	Reporting Limit	Units	Method
Lead	0.0059	0.005	mg/L	EPA 239.2

=====

Tested By : RAJ
Validated By: TLH

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Roy F. Weston, Inc. - Stockton Laboratory
Final Report

Client: GARCIA ENTERPRISES
Sample ID: WS-2
Matrix: LIQUID
Lab ID: 866284-SA-B
Project #: W90160.
Starting Depth: 0.00

LP #: 11636

Date Sampled: 7/19/1991
Date Received: 7/20/1991
QC Batch # : 07/25/91
Date Analyzed: 7/30/1991
Date Reported: 8/09/1991
Ending Depth: 0.00

Test Description: Total Extract Hydrocarbons (TPH-D)

=====

Analyte	Result*	Reporting Limit	Units	Method
Total Extractable Hydrocarbons	0.12	0.050	mg/L	LUFT

=====

Tested By : KNS
Validated By: DDJ

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Roy F. Weston, Inc. - Stockton Laboratory
Final Report

Client: GARCIA ENTERPRISES

Sample ID: WS-2

Matrix: LIQUID

Lab ID: 866284-SA-A

Project #: W90160.

LP #: 11636

Starting Depth: 0.00

Date Sampled: 7/19/1991

Date Received: 7/20/1991

QC Batch # : V073191AB1

Date Analyzed: 7/31/1991

Date Reported: 8/09/1991

Ending Depth: 0.00

Test Description: BTEX Analysis

=====

Analyte	Result*	Reporting		Method
		Limit	Units	
Benzene	0.89	0.50	ug/L	EPA 602
Toluene	0.81	0.50	ug/L	
Ethylbenzene	ND	0.50	ug/L	
Xylene	ND	0.50	ug/L	

=====

Tested By : AMB/PJ

Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

Client: GARCIA ENTERPRISES
Sample ID: WS-2
Matrix: LIQUID
Lab ID: 866284-SA-A
Project #: W90160. LP #: 11636
Starting Depth: 0.00
Date Sampled: 7/19/1991
Date Received: 7/20/1991
QC Batch # : V073091MM1
Date Analyzed: 7/30/1991
Date Reported: 8/09/1991
Ending Depth: 0.00

Test Description: Total Volatile Hydrocarbons (TPH-G)

Analyte	Result*	Reporting Limit	Units	Method
Total Volatile Hydrocarbons	880.	20.	ug/L	LUFT

Tested By : MAM/PJ
Validated By: GRA

* ND indicates a compound was not detected at a concentration level greater than the reporting limit.

BLANK SHEET

CALIB. STD. ID G-95 STD.
 COLUMN SP1000
 MATRIX Water

DATE ANALYZED 7/29/90
 INSTRUMENT ID 13
 ANALYST Mike Morainy

Analytes 601/8010	MDL mg/kg ug/l	Method Blank	Analytes 602/8020	MDL mg/kg ug/l	Method Blank
Bromodichloromethane			Benzene		
Bromoform			Chlorobenzene		
Bromomethane			1,2-Dichlorobenzene		
Carbon tetrachloride			1,3-Dichlorobenzene		
Chloroethane			1,4-Dichlorobenzene		
2-Chloroethylvinylether			Ethylbenzene		
Chloroform			Toluene		
Chloromethane			Xylene		
Dibromochloromethane			Acetone		
1,2-Dichlorobenzene			Isopropyl alcohol		
1,3-Dichlorobenzene					
1,4-Dichlorobenzene					
Dichlorodifluoromethane			T V H	1.0 ppm	ND
1,1-Dichloroethane					
1,2-Dichloroethane					
1,1-Dichloroethene					
t-1,2-Dichloroethene					
1,2-Dichloropropane					
c-1,3-Dichloropropene					
t-1,3-Dichloropropene					
1,1,2,2-Tetrachloroethane					
Tetrachloroethene					
1,1,1-Trichloroethane					
1,1,2-Trichloroethane					
Trichloroethene					
Trichlorofluoromethane					
Vinyl chloride					
Dichloromethane					
Freon 113					
c-1,2-Dichloroethene					

Client:



RFW #: _____

Ext. Batch ID: _____

Matrix: water

Date Extracted: _____

Analyst: Mike M.

Date Analyzed: 7/29/91

Spike Type: MATRIX

Lab ID: _____

Sample ID: _____

Compound	Spike Amount mg/Kg	Sample Conc mg/Kg	SPK Conc mg/Kg	SPK DUP Conc mg/Kg
Gasoline	0.5	0	0.58	0.56

Compound	SPK		SPK DUP		RPD		QC LIMITS	
	% Rec	Q	% Rec	Q	RPD	Q	Recovery	RPD
Gasoline	116		112		4		70 - 130	20

Q Column to be used to flag recovery and RPD values
 * Values outside of Advisory QC Limits
 D Spikes diluted out

Roy F. Weston, Inc.
GFAA

07/26/91

Units: ug/l

LP#: 11618,636

Inst. ID#:

Analyst: P. SAMRA

#1 809-1273

QC Bat#: I072691PS9

#2 709-2117

Dig Bat#: I072491FC2

Mtrx: Water

ANALYTE	RL mg/L	PB mg/L	LCSW1 Obs	LCSW2 Obs	LCSW TV	LCSW1 %R	LCSW2 %R
Arsenic	0.010				0.040		
Thallium	0.010				0.050		
Selenium	0.005				0.010		
Lead	0.005	ND	0.023	0.021	0.020	115.0	105.0
Copper	0.005				0.015		

Client Garcia Enterprises



RFW #: 11030

Ext. Batch ID: E072591TR1

Matrix: WATER

Date Extracted: 7-25-91

Analyst: KNS

Date Analyzed: 7-30-91

Spike Type: method

Lab ID: 11030T

Sample ID: Blank

Compound	Spike Amount mg/L	Sample Conc mg/L	SPK Conc mg/L	SPK DUP Conc mg/L
Diesel (D-2)	1.01	Ø	.677	.652

Compound	SPK		SPK DUP		RPD		QC LIMITS	
	% Rec	Q	% Rec	Q	RPD	Q	Recovery	RPD
Diesel (D-2)	67%		65%		3.0		24 - 93	46

Q Column to be used to flag recovery and RPD values
 * Values outside of Advisory QC Limits
 D Spikes diluted out

Custody Transfer Record/Lab Work Request



WESTON Analytics Use Only

LP# 11635 (soil) LP# 11636 (water)

Client CANONIE ENVIRONMENTAL
 Work Order GARCIA QUOTE P-91-2605
 Date Rec'd. 7-20-91 Date Due _____
 RFW Contact _____
 Client Contact/Phone _____

Refrigerator#									
#/Type Container									
Volume									
Preservative									
ANALYSES REQUESTED	TPHG (L/FT)	STEX P200	ORGANIC LEAD (L/FT)	TPHD	Pb Total				

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected						
866271A	T-1	S	7-17-91	X	X	X	X		
72A	T-2	S	7-17-91	X	X	X	X		
73A	T-3	S	7-17-91	X	X	X	X		
74A	PUMPS	S	7-17-91	X	X	X	X		
866275A	NE WS-1 LP# 11636	W	7-17-91	X	X	X	X	← 3 LITERS, 1 VOA	
76A	NE-9.5'	S	7-17-91	X	X	X	X		
77A	NW-10'	S	7-17-91	X	X	X	X		
78A	SE-9.5'	S	7-17-91	X	X	X	X		
79A	SW-10'	S	7-17-91	X	X	X	X		
80A	SAND - NORTH PILE	S	7-19-91	X	X	X	X		
82A	SAND - SOUTH PILE	S	7-19-91	X	X	X	X		
866274A	WS-2 Jux 866284	W	7-19-91	X	X	X	X		

Matrix: W - Water DS - Drum Solids X - Other
 S - Soil O - Oil DL - Drum Liquids
 SE - Sediment A - Air F - Fish
 SO - Solid WI - Wipe L - EP/TCLP Leachate

Special Instructions: **REPORT RESULTS TO BRIAN WESTON (415) 463-9117 AT CANONIE 14 DAY DAT**

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
COOLER	Rian W	Fred Ex	7-19-91	4:00					

WESTON Analytics Use Only
 Samples Were Shipped or Hand-Delivered
 NOTES:

2 Ambient or Chilled
 NOTES: 3^c 1
 3 Received Broken/Leaking (Improperly Sealed)
 Y N

4 Properly Preserved
 Y N
 5 Received Within Holding Times
 Y N

COC Tape Was:
 1 Present on Outer Package Y N
 2 Unbroken on Outer Package Y N
 3 Present on Sample Y N
 4 Unbroken on Sample Y N

COC Record Was:
 1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? - Y N
 NOTES:

WS 2 added to COC per Brian. Weston. 7/22/91.
 In WS-1, Org Pb is not a method.