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June 8, 1998

why such high detection limits for soil samples

gas tank

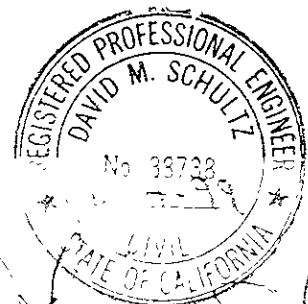
PROJECT REPORT
UNDERGROUND STORAGE TANK REMOVAL
(ASE JOB NO. 3190)

for

Peerless Stages, Inc.
2021 Brush Street
Oakland, California

Submitted by

Aqua Science Engineer
2411 Old Crow Canyon Road, #4
San Ramon, California 94583
(925) 820-9391



David M. Schultz

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CHAIN OF CUSTODY DOCUMENTATION

1.0 INTRODUCTION

This report documents the removal, disposal and related activities of the underground storage tank (UST) closure performed at Peerless Stages, Inc. (Peerless), 2021 Brush Street, Oakland, California (Figure 1). The following UST was removed from the site (Figure 2):

<u>QUANTITY</u>	<u>TYPE AND SIZE UST</u>	<u>FORMER CONTENTS</u>
1	Steel, 2,000 gallon	Gasoline

The scope of services provided by Aqua Science Engineers, Inc. (ASE) were conducted on behalf of Peerless in accordance with ASE proposal No. 97-126 and included the following tasks:

- o Preparing a health and safety plan.
- o Obtaining permits from appropriate agencies.
- o Removing and disposing of liquids from the UST.
- o Removing and disposing of the UST and associated piping.
- o Sampling and analyzing the soil beneath the UST.
- o Stockpiling overburden/contaminated soil on-site for future handling.
- o Backfilling the excavation.
- o Preparing this report of methods and findings.

2.0 PERMITS

Permits and approvals required to remove the UST were obtained by ASE from the City of Oakland Fire Prevention Bureau (COFPB), the Alameda County Health Care Services Agency (ACHCSA), CAL-OSHA, and the Bay Area Air Quality Management District (BAAQMD). Copies of permits, application forms, and notification documents are contained in Appendix A.

3.0 MOBILIZATION

Field operations were conducted by trained technicians who are certified per the mandatory 40-hour safety program as specified in the OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120). A tailgate safety meeting was conducted to review the health and safety plan. Personnel present during the UST removal activities on May 13, 1998 included ASE Senior Project Manager David Allen, ASE Geologist Charlie Rous, Doug Lighty of Shirley's Contractor's Service, Inc. (Shirley's), Inspector Steve Crawford of the COFPB, and Mr. Rob Weston of the ACHCSA.

4.0 LIQUID REMOVAL

On May 13, 1998, Universal Environmental, Inc., (Universal) pumped approximately 50 gallons of residual product out of the UST, which remains at the site in a labeled drum. The UST was then rinsed and Universal transported this rinse water (approximately 200 gallons) to the Seaport Environmental, Inc. facility in Redwood City, CA under Non-Hazardous Water Transport Form No. 1892. Copies of the transportation documents described above are attached in Appendix B.

5.0 EXCAVATION ACTIVITIES

Shirley's operator Doug Lighty began on-site activities on May 12, 1998 by excavating and exposing the top and one side of the UST and removing the UST piping. Excavated soils were stockpiled next to the excavation for future handling. Petroleum hydrocarbon impacted soils were encountered during excavation activities. On May 13, 1998, ASE and Shirley's completed the excavation for the UST removal.

6.0 TANK PREPARATION

On May 13, 1998, the UST was made inert through the addition of 450 pounds of dry ice into the 2,000 gallon UST. The UST removal operations were witnessed by Inspector Crawford of the COFPD and Mr. Rob Weston of the ACHCSA. The Lower Explosive Limit (LEL) of the UST's atmosphere was measured and found to be within the allowable range; therefore, approval for the UST removal was granted by Inspector Crawford.

7.0 TANK REMOVAL OPERATIONS

On May 13, 1998, the UST was removed from the excavation using a backhoe, hand cleaned, and inspected by ASE, the COFPD, and the ACHCSA. The UST was in good condition with no obvious holes or signs of integrity failure. After inspection, the UST was loaded onto an Ecology Control Industries, Inc. (ECI) transport vehicle and transported to the ECI facility in Richmond, California under hazardous waste manifest No 96844788. See Appendix B for a copy of the manifest; see Appendix C for a copy of the Tank Disposal Certificate.

8.0 REMOVAL OF CONTAMINATED SOIL

Petroleum hydrocarbon impacted soil was encountered during UST removal activities. Hydrocarbon impacted soil was over excavated to a depth where no obvious signs of hydrocarbons were present. A soil sample was collected beneath each end of the UST at approximately 10 feet below ground surface (bgs). All excavated soil was stockpiled on-site for future handling. Soil sample collection and over excavation activities were approved and witnessed by Mr. Rob Weston of the ACHCSA. The vertical and lateral extent of petroleum hydrocarbon impaction to soil was defined by over excavation and soil sampling activities.

Soils encountered during the removal of the UST consisted of sandy fill with abundant debris to the total depth explored of 10 feet bgs. No groundwater was encountered in the excavation.

9.0 SOIL SAMPLE COLLECTION AND CHEMICAL ANALYSES

On May 13, 1998, under the direction and involvement of Mr. Rob Weston of the ACHCSA, ASE collected the following soil samples (see Figure 2).

TABLE ONE
SAMPLE LOCATIONS

<u>Sample Name and Location</u>	<u>Depth</u>
TANK BOTTOM WEST	10.0'
TANK BOTTOM EAST	10.0'
SP1 ABCD	N/A

The soil samples were collected from the excavator bucket in brass sample tubes, covered on each end with Teflon tape and plastic end caps, labeled, placed on ice and transported to Chromalab, Inc. of Pleasanton, California (ELAP #1094) under chain of custody documentation. The soil samples were analyzed for the presence of total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 5030/8015M, total petroleum hydrocarbons as diesel (TPH-D) by EPA Method 3550/8015M, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020, methyl tertiary butyl ether (MTBE) by EPA Method 8020, and total Lead by EPA Method 3050A/7420A. Analytical results are presented below in Table Two. The certified analytical results and chain of custody documentation are included in Appendix D.

TABLE TWO
SOIL SAMPLE RESULTS
TPH-G, TPH-D, BTEX, MTBE & TTLC Lead
All Results in Parts Per Million

Sample Name	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	Total Lead
WEST-10.0'	<20	<1.0	<1.2	<1.2	<1.2	<1.2	2.4	<5.0
EAST-10.0'	<20	<1.0	<1.2	<1.2	<1.2	<1.2	4.0	<5.0
SP1 ABCD	1.6	170	<0.005	0.0067	<0.005	0.081	0.23	180
EPA METHOD	8015M	8015M	8020	8020	8020	8020	8020	7420A

Notes:

Detectable concentrations are in **bold**.

Non-detectable concentrations are indicated by a less than sign (<) followed by the laboratory detection limit.

10.0 EXCAVATION BACKFILLING

58.62 tons of backfill material was imported from Specialty Crushing and compacted in the excavation on May 13, 1998. This tonnage represents the volume of the void of the UST removed and the soil stockpiled on-site. The excavation was not resurfaced.

11.0 STOCKPILED/CONTAMINATED SOIL

The soil excavated during the UST removal was stockpiled on-site for future handling and disposal. This material will remain covered with visqueen until the diesel UST is either removed or lined in the near future.

12.0 CONCLUSIONS AND RECOMMENDATIONS

- * On May 12 and 13, 1988, one 2,000 gallon gasoline UST was removed from Peerless and disposed of off-site.
- * TPH-g, TPH-d and BTEX compounds were not detected in soil samples collected beneath the former UST. Low concentrations of MTBE, below the USEPA Region IX Preliminary Remedial Goals (PRGs) for industrial soils, were detected in soil samples collected beneath the former UST.
- * Hydrocarbon impacted soil has been over excavated and was stockpiled on site for future handling and disposal.
- * The vertical extent of petroleum-hydrocarbon impacted soil was defined to very low to non-detectable concentrations by soil samples collected beneath each end of the former UST.

ASE recommends no further action regarding the former gasoline UST at Peerless Stages, Inc.

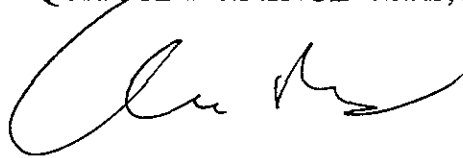
13.0 REPORT LIMITATIONS

The results of this project represent conditions at the time and specific location at which samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former gasoline UST and associated piping at the site, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CA-EPA certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

ASE appreciates the opportunity to assist with the environmental needs of this property. Should questions or comments arise, please feel free to give us a call at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



Charlie Rous
Senior Staff Geologist

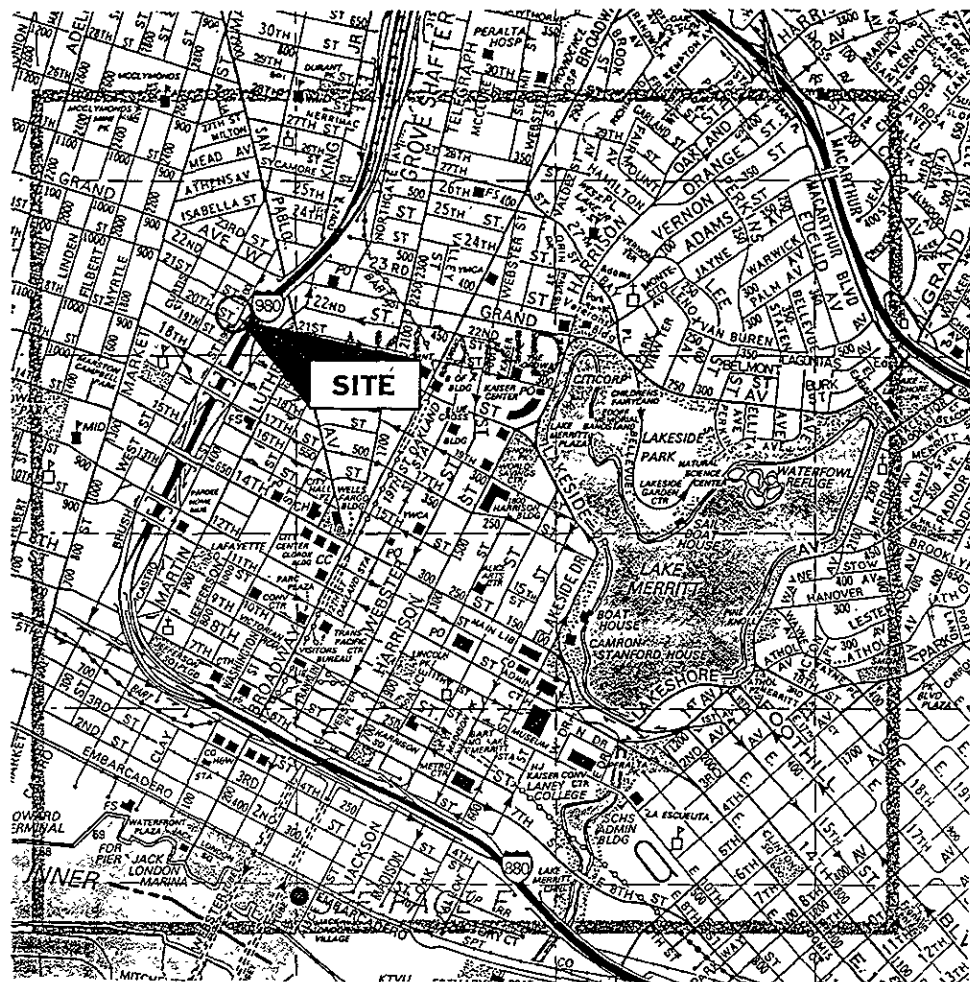
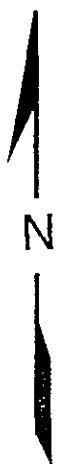


David Allen
Senior Project Manager

Enclosures: Figures 1 and 2
Appendices A - D

copies to: Mr. Rob Weston, Alameda County Health Care Services
Agency
Ms. Pamela Evans, Alameda County Health Care Services
Agency

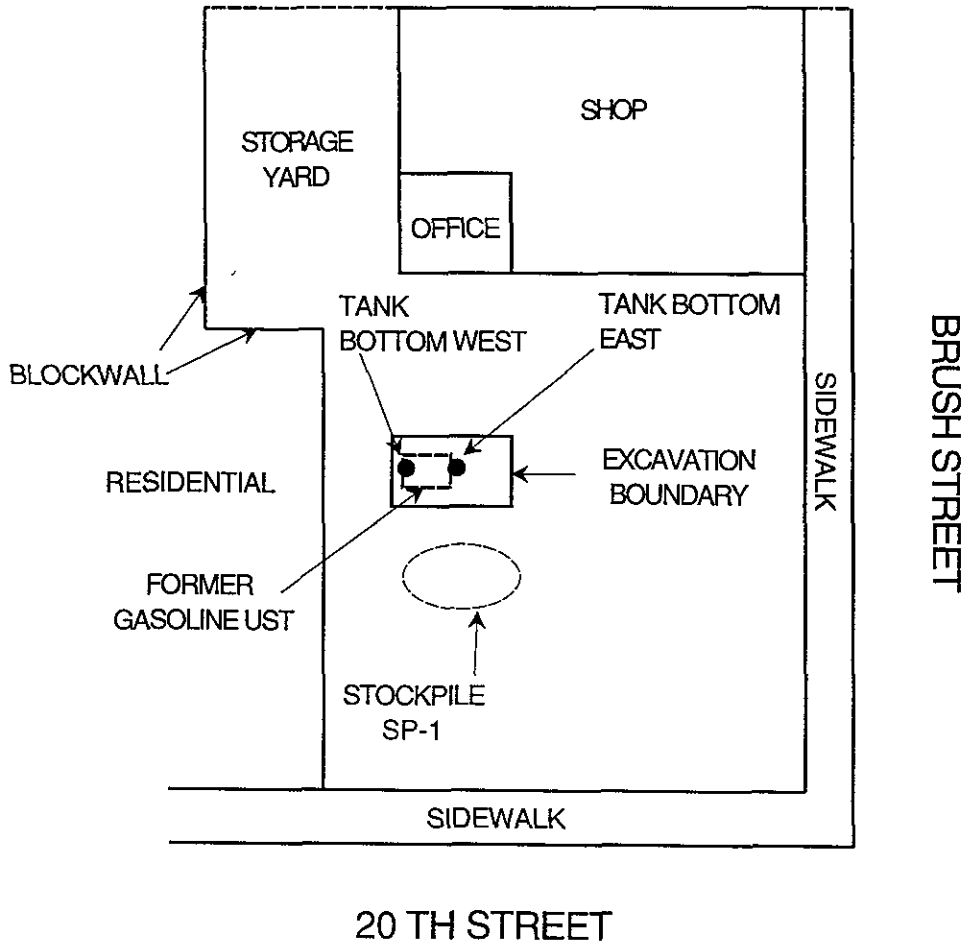
FIGURES



SITE LOCATION MAP	
Peerless Stages, Inc 2021 Brush Street Oakland, California	
Aqua Science Engineers	Figure 1



NORTH
SCALE 1" = 40'



LEGEND	
●	SOIL BORING LOCATION
□	FORMER GASOLINE UST

SITE MAP	
Peerless Stages, Inc. 2021 Brush Street Oakland, California	
AQUA SCIENCE ENGINEERS	Figure 2

APPENDIX A

PERMITS

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 ENVIRONMENTAL HEALTH SERVICES
 1131 HARBOR BAY PARKWAY, RM 250
 ALAMEDA, CA 94502-6577
 PHONE # 510/567-6700

ACCEPTED

Underground Storage Tank Closure Permit Application
 Alameda County Division of Hazardous Materials
 1131 Harbor Bay Parkway, Suite 250
 Alameda, CA 94502-6577

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction/destruction.

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

Any changes or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 72 hours prior to the following required inspections:

- Removal of Tank(s) and Piping
 - Sampling
 - Final inspection - subsequent work as needed arises.
- Issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

* THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS:

Contact Specialist:

3/19/98 Pamela Stevens 567-6770

UNDERGROUND TANK CLOSURE PLAN

* * * Complete plan according to attached instructions * * *

1. Name of Business PEERLESS STAGES, INC.
 Business Owner or Contact Person (PRINT) ALEX GAETA
2. Site Address 2021 BRUSH STREET
 City OAKLAND Zip 94612 Phone 510 444-1373
3. Mailing Address 2040 CASTRO STREET
 City OAKLAND Zip 94612 Phone 444-2900
4. Property Owner ALEX GAETA
 Business Name (if applicable) PEERLESS STAGES INC
 Address 2021 BRUSH STREET
 City, State OAKLAND CA Zip 94612

ALAMEDA COUNTY, DEPARTMENT OF
 ENVIRONMENTAL HEALTH

Hazardous Materials Inspection Form

II, III

white -env.health
 yellow -facility
 pink -files

Site ID # 495 Site Name PEERLESS STAGES Today's Date 5/13/98

Site Address 2021 BRUSH STREET
 City OAKLAND Zip 94612 Phone _____

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

Inspection Categories:

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

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

Comments:

AT THIS SITE TODAY TO WITNES
 THE REMOVAL OF ONE - 2000 GALLON
 SINGLE WALL STEEL GASOLINE TANK.
 SUCTION SYSTEM, TANK OUT OF
 SERVICE SYDS.

NO HAZES OBSERVED IN TANK.
 TAR WRAPPING STILL IN PLACE.

NO ODOR IN SAMPLES (TWO)

NO WATER IN THE EXCAVATION.

ONE TANK REMAINS AT THIS
 SITE. TO BE REMOVED AT A
 LATER DATE.

II.A BUSINESS PLANS (Title 19)

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

II.B ACUTELY HAZ. MATLS

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

III. UNDERGROUND TANKS (Title 23)

- | | |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------|
| General | <input type="checkbox"/> 1. Permit Application 25284 (H&S) |
| | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S) |
| | <input type="checkbox"/> 3. Records Maintenance 2712 |
| | <input type="checkbox"/> 4. Release Report 2651 |
| | <input type="checkbox"/> 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | <input type="checkbox"/> 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Groundwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank test |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| <input type="checkbox"/> 7. Precls Tank Test Date 2643 | |
| <input type="checkbox"/> 8. Inventory Rec. 2644 | |
| <input type="checkbox"/> 9. Soil Testing 2646 | |
| <input type="checkbox"/> 10. Ground Water 2647 | |

- | | |
|-----------|------------------------------------------|
| New Tanks | <input type="checkbox"/> 1. Maximum 2570 |
| | <input type="checkbox"/> 2. Access 2571 |
| | <input type="checkbox"/> 3. Spill 2572 |

Contact: _____
 Title: _____
 Signature: _____

Inspector: _____
 Signature: _____

II, III

ACTIVITY NOTIFICATION FORM

Buildings Structures Scaffolding Falsework Demolition Trenches Excavations

Company Name: ADVA SCIENCE ENGINEERS Field Phone: 510-502-0886
Permit Number: 98-900642 Office Phone: 925-820-9391
Specific Activity Location: 2021 BRUSH ST. Number of Employees: 4
Nearest Major Cross Street: 20TH ST. Starting Date: 5-7-98
City: OAKLAND Anticipated Completion Date: 5-8-98
County: ALAMEDA High Voltage Lines in Proximity? No X Yes _____

INSTRUCTIONS: The appropriate item(s) must be completed and signed by a person knowledgeable about the project for each activity covered by a permit. Please fill in or check off the blanks where appropriate.

Construction of: Building _____ Structure _____ Type: Steel Frame _____ Tiered _____ Concrete _____
Tilt-up _____ Wood Frame _____ Liftslab _____ Precast _____ Slip Form _____ Depth _____ No. of Stories _____
Description: _____

(See 8 CCR 1709-30: Appendix A Plate A-2-a & b.)

Scaffolding: Height _____ Metal _____ Wood _____ Wood over 60 Feet _____ Metal over 125 Feet _____
*Metal > 125 Feet or Wood > 60 Feet requires design by California Registered Civil Engineer & Plans at Site. (See 8 CCR 1644(c)(7))
Description: _____

Falsework/Vertical Shoring: Maximum Height _____ Maximum Span _____ Material _____
Description: _____

(See 8 CCR 1717)

Demolition of: Building _____ Structure _____ Height _____ No of Stories _____ Type: Steel Frame _____
Wood Frame _____ Concrete _____ Demolition Ball _____ Clam _____ Explosives _____
Loader/Tractors _____ Other _____
(See 8 CCR 1734-37)

Trenches/Excavation: Depth Range (Min/Max) 8'/15' Width Range (Min/Max) 10'/20' Total Length 20'
Ground Protection Method: Shoring _____ Trench Shields _____ Protection _____
Underground Services: Aerial USA Number 2 ST DETERMINED N. 1-800-642-2444 N. 1-800-422-4111
Soil Analysis to be done? Yes X No _____ If No You Must Slope 1.5 to 1
Description: GASLINE UST REMOVAL

(See 8 CCR 1504, 1540-1547)

* Ground protection methods for excavations deeper than 20 feet must be designed by a Registered Professional Engineer. See 8 CCR 1541.1, Appendix F



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415).771-6000

REGULATION 8, RULE 40 NOTIFICATION FORM

Check Removal or Replacement of Tanks
 Excavation of Contaminated Soil

SITE INFORMATION	
Site Address	2021 BRUSH ST. @ 20TH ST.
City, State	OAKLAND, CA Zip 93116
Owner Name	ALEX GAETA, PEERLESS STAGES, INC.
Specific location of project	IN BUS YARD
<p align="center">Tank Removal</p> Scheduled startup date <u>MAY 7, 1998</u> Vapors removed by: <input checked="" type="checkbox"/> Water wash <input checked="" type="checkbox"/> Vapor freeing (CO ²) <input checked="" type="checkbox"/> Ventilation Indicate below if an A/C was obtained for tank replacement: Yes _____ No _____ If yes, A/C or P/O # _____	<p align="center">Contaminated Soil Excavation</p> Scheduled Startup Date <u>MAY 7, 1998</u> 5/13/98 Stockpiles will be covered? Yes <input checked="" type="checkbox"/> No _____ Indicate below the method used to comply with Regulation 8, Rule 40, Section 402.4: Check (✓) 8-40-301 <input checked="" type="checkbox"/> 8-40-302 <input type="checkbox"/> (permit required) A/C or P/O # _____ A/C - Authority to Construct P/O - Permit to Operate
What other public agency have you notified (e.g., Fire District, Hazardous Materials Department, City or County)? Agency <u>ACHESA</u> Contact <u>PAM EUANS</u> Phone # (810) <u>567 6770</u>	

CONTRACTOR INFORMATION	
Name	AQUA SCIENCE ENGINEERS, INC. Contact DAVE ALLEN
Address	2411 OLD CROW CANYON RD, #4 Phone (925) 820-9391
City, State, Zip	SAN RAMON, CA 94583

CONSULTANT INFORMATION (if applicable)	
Name	AQUA SCIENCE ENGINEERS, INC. Contact DAVE ALLEN
Address	2411 OLD CROW CANYON RD #4 Phone (925) 820-9391
City, State, Zip	SAN RAMON, CA 94583

FOR OFFICE USE ONLY	
Date Received Fax	Date Postmarked
Inspector No	Date By
Update Contact Name	Date By
Update Contact Name	Date By

See reverse for instructions

City Of Oakland

FIRE PREVENTION BUREAU

421 - 14th Street, Oakland California

94612

510-238-3851



Permit To Excavate And Install,

Repair,

Or Remove Inflammable Liquid Tanks

Oakland, California May 4, 1998

Tank Permit Number: 58-98

Permission Is Hereby Granted To:

Remove gas **Tank And Excavate Commencing: Feet Inside: property Line.**

On The: west side of Brush St., 100 feet north of 20th St.

Site Address: 2021 Brush St

Present Storage: gasoline

Owner: Alex Gaeta

Address: 2021 Brush St., Oakland

Phone: 444-2900

Applicant: Aqua Science Engineers, Inc.

Address: 2411 Old Crow Canyon Rd., #4, San Ramon, 94583

Phone: (925) 820-9391

Dimensions Of Street (sidewalk) Surface To Be Disturbed : X No. Of Tanks 1 Capacity 2000 Gallons, Each

Remarks

This Permit Is Granted In Accordance With Existing City Ordinances. Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Notified By The City Authorities When Installing, Removing Or Repairing Tanks, No Open Flame To Be On Or Near Premises.

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Tank Removal: Inspected And Passed On:

Approved: _____ **By:** _____

Tank Installations:

Pressure Test: Inspected By: _____ Date: _____

Primary Piping Test: Inspected By: _____ Date: _____

Secondary Containment & Sump Testing:

Inspected By: _____ Date: _____

Final: Inspected By: _____ Date: _____

Before Covering Tanks, Above Certification Must Be Signed When Ready For Inspection Notify Fire Prevention Bureau 238-3851

THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE

APPENDIX B

HAZARDOUS & NON-HAZARDOUS WASTE MANIFESTS

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550
 96844788
 GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA 410100 06 617 954	Manifest Document No. 4 17 8 18	2. Page 1 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Pearless Stairs, Inc. 2021 Brush Street		A. State Manifest Document Number 96844788		B. State Generator ID	
4. Generator's Phone (510) 444 1373 Oakland, CA 94612		C. State Transporter ID		D. Transporter's Phone	
5. Transporter 1 Company Name Ecology Control Industries		6. US EPA ID Number KAID 98201 01 173		E. State Transporter ID	
7. Transporter 2 Company Name		8. US EPA ID Number		F. Transporter's Phone	
9. Designated Facility Name and Site Address Erickson, Inc. 255 Parr Blvd. Richmond, CA 94801		10. US EPA ID Number CAD 009 466 392		G. State Facility ID	
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 Number State EPA/Other
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.		001 T, P	020100	P	96844788
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other
16. Additional Descriptions for Materials Listed Above 020100 Empty Storage Tank # 22650 Tank #1 have been inerted with 15 lbs Dry Ice Per 1000 Gallon Capacity.		17. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name. Alex Gaeta & Phone 510-4441373					
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 DAVID VALLEY		Signature <i>David Valley</i>		Month Day Year 05 11 91	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Ernest Beinau		Signature <i>Ernest Beinau</i>		Month Day Year 05 11 13 91	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Facility Owner or Operator Certification of Receipt of Hazardous Materials Covered by this Manifest, except as noted in item 9 Printed/Typed Name		Signature		Month Day Year	

DO NOT WRITE BELOW THIS LINE

NON-HAZARDOUS WATER TRANSPORT FORM

7181912

GENERATOR INFORMATION

Peerless Stages
2040 Castro St
Oakland Ca 94612

CUSTOMER INFORMATION

Aqua Science

PO #

DESCRIPTION OF WATER: Tank Rinsate
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

DAVID AVEN, ASE Inc. Agent for Peerless
Generator/Authorized Agent

David Aven 5-13-98
Sign date

SITE INFORMATION

2021 Brush St
Oakland
Ca 94612

GROSS	
TARE	
NET	
TOTAL GALLONS	200

Calculated at 8.34 lbs per USG

TRANSPORTER INFORMATION

Universal Environmental

Truck ID: 1105

Driver: Greg Reed / Greg Reed 5/13/98
Print full name & sign date

TIME OUT	
TIME IN	
TIME SPENT	

DISPOSAL FACILITY INFORMATION

Seaport Environmental
675 Seaport Boulevard
Redwood City, Ca 94063
Phone: (650) 364 1024

Approval Number

801 - 133

Solids %Wt pH

[] []

[]

Solids Surcharge
\$/USG

Received by: *Jay R. Nades* 5-13-98
Print full name & sign date

FP > 140°F
Solids < 0.5%
No organic layer observed

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record

Shipper's No. _____

(Carrier) UNIVERSAL ENVIRONMENTAL, INC. SCAC. _____ Carrier's No. 1892

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at BENICIA, CA, date _____ from _____

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee for purposes of notification only.)

TO:
Consignee _____
Street 675 S. GATE BLVD
Destination INDIAN GROVE, CA Zip 94927

FROM:
Shipper _____
Street _____
Origin BERKLEY, CA Zip 94612

Route: _____

Delivering Carrier		Trailer Initial/Number	U.S. DOT Hazmat Reg Number							
No. of packages	HM	Description of articles, special marks, and exceptions	Hazard Class	I.D. Number	Packing Group	Weight (subject to correction)	Class or rate	Labels required (or exemption)	Check column	
		TANK RINSE WATER	N/A	N/A	N/A	200g				

Remit C.O.D. to:
Address: _____
City: _____ State: _____ Zip: _____

COD AMT: \$ _____

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

C. O. D. FEE:
Prepaid
Collect \$ _____

FREIGHT CHARGES
 Prepaid Collect

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight". Note - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

PLACARDS REQUIRED

PLACARDS SUPPLIED

YES NO - FURNISHED BY CARRIER
DRIVER'S SIGNATURE: _____

SHIPPER: [Signature] CARRIER: [Signature]
PER: _____ DATE: _____ PER: _____ DATE: _____

EMERGENCY RESPONSE TELEPHONE NUMBER: () _____
Monitored at all times the Hazardous Material's in transportation including storage incidental to transportation (§172.602)

Permanent post office address of shipper: _____

APPENDIX C

TANK DISPOSAL CERTIFICATE

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 26009

CUSTOMER
JOB NO. 972195
AQUA SCIENCE

FOR: ERICKSON, INC. TANK NO. 22650

LOCATION: RICHMOND, CA DATE: 5/21/98 TIME: 10:03:41

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT UG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 2,000 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ERICKSON, INC. HERBY CERTIFIES THAT THE
ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR
PERMITTED HAZARDOUS WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US
FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on this certificate's certificate.

SAFE FOR FIRE: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on this certificate's certificate. This designation is only valid if the tank is properly vented and the atmosphere is continuously monitored for oxygen and toxic materials. The undersigned is not responsible for any fire or explosion that may occur while the tank is being worked on. The undersigned is not responsible for any fire or explosion that may occur while the tank is being worked on. The undersigned is not responsible for any fire or explosion that may occur while the tank is being worked on.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Latrice Collins
REPRESENTATIVE

TITLE

Dave J. Tate
INSPECTOR

APPENDIX D
CERTIFIED ANALYTICAL REPORT
and
CHAIN OF CUSTODY DOCUMENTATION

CHROMALAB, INC.

Environmental Services (SDB)

June 1, 1998

Submission #: 9805226

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: PEERLESS STAGES
Received: May 14, 1998

Project#: 3910

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: TANK BOTTOM EAST @10'

Spl#: 185817

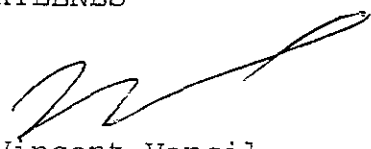
Matrix: SOIL

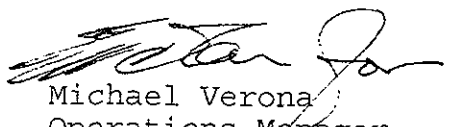
Sampled: May 13, 1998

Run#:12921

Analyzed: May 26, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	20	N.D.	110	2
MTBE	4.0	1.2	N.D.	87	2
BENZENE	N.D.	1.2	N.D.	96	2
TOLUENE	N.D.	1.2	N.D.	100	2
ETHYL BENZENE	N.D.	1.2	N.D.	112	2
XYLENES	N.D.	1.2	N.D.	113	2


Vincent Vancil
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

June 1, 1998

Submission #: 9805226

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: PEERLESS STAGES

Project#: 3910

Received: May 14, 1998

re: One sample for Gasoline BTEX MTBE analysis.

Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: TANK BOTTOM WEST @10'

Spl#: 185818


Matrix: SOIL


Sampled: May 13, 1998

Run#:12921

Analyzed: May 26, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	20	N.D.	110	2
MTBE	2.4	1.2	N.D.	87	2
BENZENE	N.D.	1.2	N.D.	96	2
TOLUENE	N.D.	1.2	N.D.	100	2
ETHYL BENZENE	N.D.	1.2	N.D.	112	2
XYLENES	N.D.	1.2	N.D.	113	2


Vincent Vancil
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

June 1, 1998

Submission #: 9805226

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: PEERLESS STAGES
Received: May 14, 1998

Project#: 3910

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: SP1A,B,C,D

Spl#: 185819

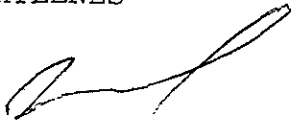
Matrix: SOIL

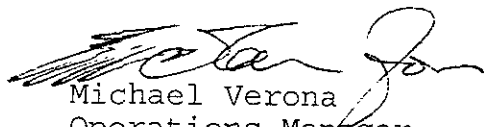
Sampled: May 13, 1998

Run#:12798

Analyzed: May 18, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE FACTOR (%)	DILUTION FACTOR
GASOLINE	1.6	1.0	N.D.	95	1
MTBE	0.23	0.0050	N.D.	80	1
BENZENE	N.D.	0.0050	N.D.	79	1
TOLUENE	0.0067	0.0050	N.D.	84	1
ETHYL BENZENE	N.D.	0.0050	N.D.	82	1
XYLENES	0.081	0.0050	N.D.	87	1


Vincent Vancil
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

May 20, 1998

Submission #: 9805226

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen


Project: PEERLESS STAGES
Received: May 14, 1998

Project#: 3910

re: 3 samples for Lead analysis.
Method: EPA 3050A/7420A

Sampled: May 13, 1998 Matrix: SOIL Extracted: May 18, 1998
Run#: 12797 Analyzed: May 18, 1998

Spl#	CLIENT SPL ID	LEAD (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
185817	TANK BOTTOM EAST @10'	N.D.	5.0	N.D.	98.0	1
185818	TANK BOTTOM WEST @10'	N.D.	5.0	N.D.	98.0	1
185819	SP1A,B,C,D	180	5.0	N.D.	98.0	1


Shafi Barekzai
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

May 20, 1998

Submission #: 9805226

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: PEERLESS STAGES
Received: May 14, 1998

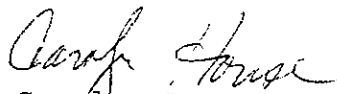
Project#: 3910


re: 3 samples for TPH - Diesel analysis.
Method: EPA 8015M

Sampled: May 13, 1998 Matrix: SOIL Extracted: May 15, 1998
Run#: 12770 Analyzed: May 16, 1998

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
185817	TANK BOTTOM EAST @10'	N.D.	1.0	N.D.	90.5	1
185818	TANK BOTTOM WEST @10'	N.D.	1.0	N.D.	90.5	1
185819	SP1A,B,C,D	170	10	N.D.	90.5	10

Note: Hydrocarbon reported has characteristics of weathered/aged Diesel.
Surrogate high due to matrix interference.


Carolyn House
Analyst


Bruce Havlik
Analyst

9405226/185817-19

SURM #: 9805226 REP: PH
 CLIENT: ASE
 DUL: 05/21/98
 REF #: 39862

39862

Aqua Science Engineers, Inc.
 2411 Old Crow Canyon Road, #4,
 San Ramon, CA 94583
 (510) 820-9391 - FAX (510) 837-4853

Cha

ly

DATE _____ PAGE _____ OF _____

SAMPLERS (SIGNATURE) _____ (PHONE NO.) _____

PROJECT NAME PEERLESS STAGES NO. 3910

ADDRESS OAKLAND, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
 COMPOSITE SP-1 (A-D) INTC 1
 SAMPLES FROM THE ANALYSES

SAMPLE ID	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GASOLINE (EPA 5030/8015)	TPH-GASOLINE/BTEX (MIBK) (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/C220)	PURGABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240)	BASE/NEUTRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 ERF OF B&F)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC-CAM WET (EPA 1311/1310)	REACTIVITY	BIODEGRADABILITY	TOXICITY	TOTAL Pb	COMPOSITE	
TANK BOTTOM EAST	5/13		SOIL	1		X	X															
TANK BOTTOM WEST	5/13		SOIL	1		X	X															
SP-1 (A-D)	5/13		SOIL	4		X	X															

RELINQUISHED BY	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY	COMMENTS
<i>[Signature]</i> (signature)	<i>[Signature]</i> (signature)	<i>[Signature]</i> (signature)	<i>[Signature]</i> (signature)	
1.25 (time)	11:27 (time)	13:14 (time)	13:14 (time)	
D. Allen (printed name)	R. Morrison (printed name)	R. Morrison (printed name)	Colleen Cassidy (printed name)	
5-14-98 (date)	5-14-98 (date)	5-14-98 (date)	5-14-98 (date)	
Company: ASE, Inc.	Company: Chromalab	Company: Chromalab	Company: Chromalab	