



Contractor's License # 247322

## Accutite Environmental Engineering

35 So. Linden Avenue, South San Francisco, CA 94080-6407 Tel: (415) 952-5551 Fax: (415) 952-7631 Tank Testing: (415) 952-0327

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August 5, 1993

Ms. Juliet Chin  
Alameda County Health Agency  
Division of Hazardous Materials  
Department of Environmental Health  
80 Swan Way, Rm. 350  
Oakland, CA 94621

**RE: WORK PLAN FOR SOIL OVEREXCAVATION AT  
Z-RENTALS, 711 CLEVELAND, ALBANY, CA 94710**

Dear Ms. Chin:

Accutite Environmental Engineering is pleased to submit this Work Plan to over excavate the site located at 711 Cleveland, Albany, California.

Work is scheduled for the week of August 16, 1993. Your presence would be requested to witness soil sampling. I will be contacting you on August 11, 1993 to confirm date and time.

If you have any questions, please contact me at (415) 952-5551.

Regards,  
Accutite Environmental Engineering

Amy P. Marden  
Project Engineer

cc: Frank Zichici, Z-Rentals  
Enclosure

Masin3wp

## **WORK PLAN FOR SOIL OVEREXCAVATION AT Z-RENTALS, 711 CLEVELAND, ALBANY, CA 94710**

### **Background:**

The property lies East of highway 80 and half a mile South of Central Avenue in Albany. The 2,000 gallon underground storage tank (UST) at the referenced site was used to fuel company vehicles with gasoline. The other UST was found while removing the 2,000 gallon gasoline tank. The size and contents were unknown until the tank was uncovered on May 21, 1993. The unknown UST was a 500 gallon tank and was found full of diesel fuel.

### **Tank Removals:**

On May 19 & 21, 1993, Accutite Environmental Engineering removed one 2,000 gallon gasoline and one 500 gallon diesel underground storage tank respectively, from the subject site. The tank removals were conducted according to requirements set forth by the County of Alameda Health Agency (ACHA) under the supervision of inspector Juliet Shin.

Upon removal of the tanks, five soil samples were collected, three samples from the excavations, 2 feet beneath tank bottom (labelled on the site maps as N10', S10', and D9'), and two composite samples from the excavated stockpile soil (labelled SP & SP2). Soil in the excavation consisted of sandy backfill material, and underlying clays. A hard flat rock was found at approximately 11 feet below surface grade beneath each tank. The two excavated stockpiles, approximately 30 cubic yards, contained hydrocarbon staining and odor. Soil samples SP, N10', and S10' were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G) with Benzene, Toluene, Ethyl Benzene, and Total Xylenes (BTEX) distinctions. Soil samples SP2 and D9' were analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D) and BTEX.

The excavations were backfilled with excavated soil and imported clean drain rock separated by visqueen on the same day of each removal.

The 2,000 gallon gasoline tank contained several 3/8" size holes on the top flat end of the tank. The 500 gallon diesel tank was found in good condition with no holes.

Ground water was not encountered in the excavations.



**Laboratory Results:**

**Analytical Results from Soil Samples  
for Total Petroleum Hydrocarbons  
EPA Method 5030/8015/8020  
EPA Method 3550/8015  
Z Rental Properties  
711 Cleveland Avenue, Albany, CA  
May 19 & 21, 1993**

<b>Sample Location</b>	<b>TPH/D</b>	<b>TPH/G</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl-Benzene</b>	<b>Total Xylenes</b>
<u>May 19, 1993</u>						
N10'	N.A.	52	N.D.	N.D.	N.D.	N.D.
S10'	N.A.	92	0.028	N.D.	N.D.	N.D.
Composite sample SP	N.A.	14	N.D.	N.D.	N.D.	0.051
<u>May 21, 1993</u>						
D9'	6.8	N.A.	N.D.	N.D.	N.D.	N.D.
Composite sample SP2	1,400	N.A.	0.025	0.057	N.D.	0.29
Detection Limits	1.0	1.0	0.005	0.005	0.005	0.005

All analytical results are reported in parts per million (ppm).

Please refer to the attached original laboratory results.

N.A. = Not Available  
N.D. = Non-Detect



### Scope of Work:

1. Perform underground utility clearance. Owner is responsible for outlining in white paint any known utilities.
2. Excavate the former gasoline and diesel tank excavation to remove backfill material. Efforts will be made to separate contaminated soil from non-contaminated soil. Note: Tanks were end to end in the excavation thus cross contamination may have occurred. Place the contaminated excavated soil on and cover with visqueen on site.
3. Over excavate former gasoline tank excavation in the lateral directions in efforts to mitigate contamination levels below the 92 ppm TPH-G detected from the tank removal. The hard surface encountered below the tanks during removal will not be removed.
4. Collect four soil samples from each sidewall of the excavation. Collect one (8 point) composite soil samples (per 100 cu. yd) of the stockpiled contaminated soil. Analyze all soil samples for Total Petroleum Hydrocarbons as Gasoline (TPH-G) with Benzene, Toluene, Ethyl Benzene and Xylene (BTEX) distinctions. In addition analyze the composite soil sample for Total Petroleum Hydrocarbons as Diesel (TPH-D). Note: If Alameda County requires all soil samples to be analyzed for TPH-D, please advise our office in writing so that Client may be notified.
5. Based on the analytical results from the stockpiled soil, an appropriate landfill (Class II or Class III) will be determined. Further analyses will be performed per landfill acceptance requirements.
6. Pending landfill acceptance, the stockpiled soil will be loaded, hauled and disposed of at a regulated landfill.
7. Backfill and compact the excavation with reusable excavated material and clean imported fill.
8. Prepare and submit a soil report to the Client within 30 days after work is completed. The report should include a description of all site activities, findings, conclusions and recommendations, a site map, a table of analytical results, field documentation, chain of custodies, and original laboratory analytical results.

*← One tank pit hold both tanks.*

### Soil Sampling Methodology for Excavations:

Soil samples from the tank excavation will be collected utilizing an adequate size excavator/backhoe. Before a brass liner is pounded into soil collected in the bucket of the excavator with a rubber mallet, several inches of soil will be removed from the surface. All sampling will be done in accordance with accepted sampling techniques. The soil samples will be collected in standard containers (brass liners), labelled and sealed (aluminum foil, plastic caps and duct tape). All samples will be immediately placed on blue ice and transported under chain-of-custody to Sequoia Analytical Laboratory in Redwood City, CA.



**Limitations:**

Our services consist of professional opinions, conclusions, and recommendations made today in accordance with generally accepted engineering principles and practices. This warranty is in lieu of all other warranties, either expressed or implied.

Accutite Environmental Engineering



Amy P. Marden  
Project Engineer

Z-Rentals, 711 Cleveland Ave., Albany, CA

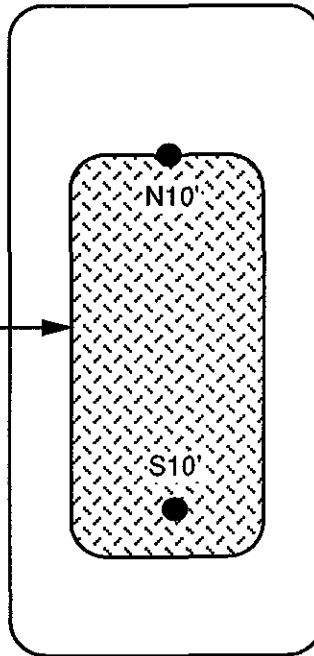


Cleveland St.



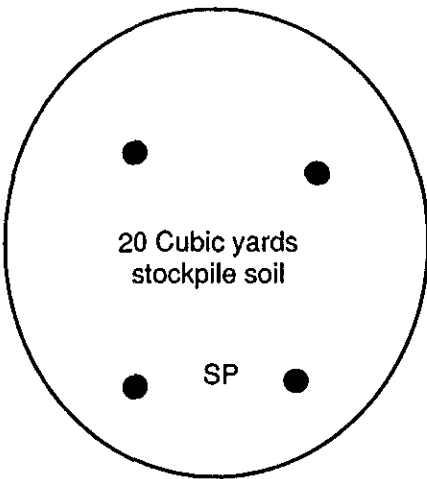
Dispenser


2,000 Gallon Former  
Single Wall Steel  
Gasoline Underground  
Storage Tank



Garage Entrance

20 Cubic yards  
stockpile soil



Revisions	Date	Page	Site:	Z Rental 711 Cleveland Street Albany, CA	By: <b>ACCUTITE ENVIRONMENTAL ENGINEERING</b>
	Tank Removal	1			
1	19 May 93	of 2			
NORTH 	SCALE	1" = 5'	Key:	● Soil sample location	35 South Linden Avenue South San Francisco California 94080