



August 4, 1992

Project 128-5

Mr. Jim Brinker  
Burnabe & Brinker  
1281 30th Street  
Oakland, CA 94608

Subject:     Underground Tank Removal Soil Sampling and Analysis Report

Dear Mr. Brinker:

This letter is a report concerning the soil sampling and analysis associated with the underground tank removals from Chen's Service Station, 2301 Santa Clara Avenue, Alameda, on July 31, 1992.

Two 550 gallon and one 285 gallon gasoline steel tanks were removed from the property on July 31, 1992. No holes were observed on the 550 gallon tanks, while a two inch diameter hole was observed on the 285 gallon tank bottom. A total of six soil samples was collected. One sample from beneath each of the former tank ends, one from beneath the north end of the gas pump island, and two from the stockpiled soil. For the samples from underneath the tanks, a backhoe was used to dig approximately one foot into the native soil for a total depth of 9 feet below ground surface. The sample from the gas pump island was 2.5 feet from the surface, and the soil pile samples were from 1.5 feet beneath the pile surface. Sample locations were directed by an Alameda County Health Services Department employee, and are shown in the attached site drawing.

For the samples from beneath the tanks, the native soil was brought to the surface in the backhoe bucket, where a 2 inch diameter 6 inch long brass sample tube was hammered into the undisturbed soil. The gas pump island sample was hammered directly into the ground, and the soil pile samples were obtained by hammering a brass tube into the soil pile. Aluminum foil was placed over the tube ends, then plastic caps. Each sample was labeled and placed in a zip lock bag on ice in a portable cooler for transport to a State certified hazardous materials analysis laboratory, McCampbell Analytical, Pacheco, CA. Sample information was entered on a chain of custody form (attached) as each sample was completed.

*Recycled Paper*

Mr. Jim Brinker  
August 4, 1992  
Page 2

The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) and the gasoline constituents of benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA methods 5030, 8015 and 8020, and California RWQCB (SF Bay Region) method GCFID (5030). Analysis results show all samples collected had detectable of gasoline and its constituents, with the highest amounts from beneath the tanks.

Chen's Service Station  
2301 Santa Clara Avenue, Alameda, California  
Soil Sample Analysis Results\*  
Samples Collected on July 31, 1992

Sample Number	Depth	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes
1 (tank)	9'	3,100	48	210	55	260
2 (tank)	9'	11,000	190	850	230	1,200
3 (tank)	9'	16,000	280	1,000	270	1,400
4 (soil pile)	1.5'	20	0.072	0.30	0.080	1.2
5 (soil pile)	1.5'	270	0.55	6.6	5.4	35
6 (gas island)	2.5'	2.1	0.011	0.046	0.013	0.090

\* TPH (as gasoline) and BTEX are in parts per million. ND = Not Detected

We are forwarding a copy of this report and attachments to Alameda County and Alameda City Fire Department as you requested.

Sincerely,  
PARKER ENVIRONMENTAL SERVICES



James D. Parker  
President

Attachments

cc: Alameda County Health Services, Environmental Health  
City of Alameda Fire Department



OAK STREET

Sidewalk

Repair Service Building

Soil Pile

Limit of Excavation

1

2

3

6

4

5

*Handwritten signature and date: 7/31/92*

Former Locations of Tanks

Sales Office

Canopy Support Former Gas Island

Sidewalk

SANTA CLARA AVENUE



0 20 40

Approximate Scale (in feet)

● = Sampling point. Samples collected July 31, 1992

**PARKER**  
Environmental  
Services

4185 Rialto Court  
Pittsburg, CA 94565  
(510) 439-1024

CHEN'S SERVICE CENTER  
2301 Santa Clara Avenue, Alameda, California  
Tank Removal Soil Sampling

Project 128-5

7/92



