

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.

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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	ТРН-д	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	1) 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,

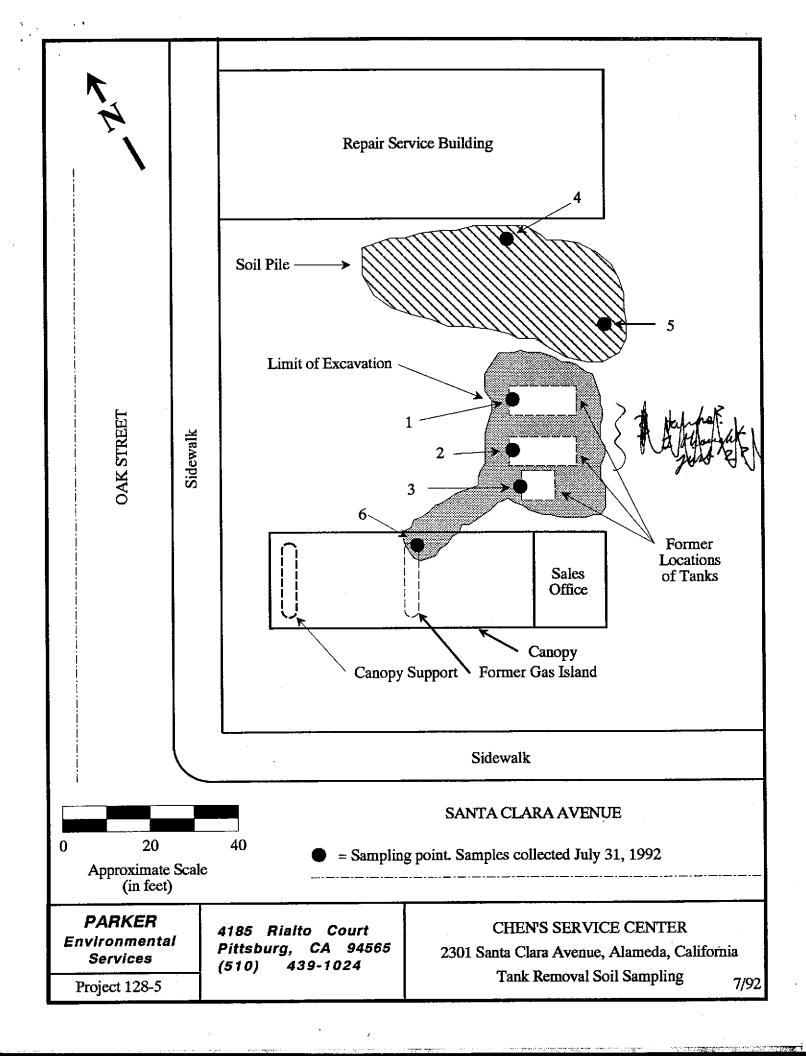
PARKER ENVIRONMENTAL SERVICES

James D. Parker

President

Attachments

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



Bernabe & Brinker			ient Project 01 Santa Cla			n; Date Samp	Date Sampled: 07/31/92			
1281 30th Street Oakland, CA 94608			OI Santa Cia	ia Si, Alamei	<u> </u>	Date Recei	Date Received: 07/31/92 Date Extracted: 07/31/92			
			ient Contact:	Jim Brinker,	Ernie Bernal	e Date Extra				
		CI	Client P.O:			Date Analy	Date Analyzed: 08/01-08/02/92			
	5000	Low Bo	oiling Point	(C6-C12) TP	H* as Gasolii	ne and BTEX*) method GCFII	VS020)			
Lab ID	Client ID		TPH(G) +	Benzene	Toluene	Ethyl Ben- zene	Xylenes	% Rec. Surrogate		
105825	1	s	3100,a	48	210	55	260	97		
105826	2	S	11,000,a	190	850	230	1200	104		
105827	3	Ś	16,000,a	280	1000	270	1400	113		
105828	4	s	20,b	0.072	0.30	0.080	1.2	96		
105829	5	s	270,a	0.55	6.6	5.4	35	91		
105830	6	S	2.1,a	0.011	0.046	0.013	0.090	93		
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otherwise stated; ND		w	50 ug/L	0.5	0.5	0.5	0.5			
		s	1.0 mg/kg	0.005	0.005	0.005	0.005			

^{*}water samples are reported in ug/L and soils in mg/kg

[#]cluttered chromatogram; sample peak co-elutes with surrogate peak

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gasoline compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) gasoline range compounds predominate; no recognizable pattern; i) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.

PARKER

Environmental Services

CHAIN OF CUSTODY FORM

	burg, (Cour CA 9 39-102	4565		Job; Client:	128-5 No Compl	well A.	abstical		~iv383°
Fax	(510)	439-	2566		Location:	Chen's S	ve Sto	ution 2301 Sc	edy, M.	Date July 31, 1992
Sample Number	Soil	Type Water	Time	TPH-	√ BTEX	Analysis Re Oil & Grease	equested 8240	A. (a.m. Metals (list)	وبلاي (A). Other	Remarks
	V		12:06	:/	/					MORMALTA NO. 10582
2	1	, .a	12:12		·				,	1 kg. 10582
3			1216							Ac 105827
4	<i>''</i>	·· , , , .	12:28							
5	V		12:3	V						No. 105A28
b	V		12:45							AN SERVE
										A CONTROL
						. ** **)		,		
										contact on a Charge of California
							ICEN		PRESERVATIVA	ADAR OF BEERROOLINES
							G001	CONDITION	APPROPRIATE	
							HEAD	SPACE ABSENT.	CONTAINERS	
Sampler Name (Print) JIM PARKER Sampler Sig							mpier Signatur	· Juin Parke	2/-	
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