



June 27, 1996

Mr. Scott O. Seery  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

RE: **Workplan Addendum**  
Shell Service Station  
WIC #204-6852-1404  
1784 150th Avenue  
San Leandro, California  
WA Job #81-0422-80

Dear Mr. Seery:

On behalf of Shell Oil Products Company (Shell), Weiss Associates (WA) has prepared this letter as we agreed in our June 21, 1996 telephone conversation. The following tasks are in addition to the original scope of work outlined in our workplan dated January 24, 1996. The objective of the investigation is to collect soil vapor data for a risk-based corrective action (RBCA) evaluation of the site.

**Soil Vapor Profiling:** WA will collect soil vapor samples from 3, 8 and 13 ft depth and the capillary fringe in three of the originally selected borings in our workplan (Figure 1). The objective of collecting the samples at different depths from the same boring is to evaluate the attenuation of hydrocarbon vapors between the water table and ground surface. The samples will be analyzed for benzene, toluene, ethylbenzene and xylenes by EPA Method TO-3 and oxygen, carbon dioxide and methane. One of the profile locations will be located adjacent well MW-2, the well that produces ground water samples with the highest hydrocarbon concentrations on site.

**Soil Sampling:** WA will collect soil samples from three soil borings at every 5 ft depth from ground surface to the water table. The objective of the soil sampling is to characterize the chemical and geophysical properties of the vadose zone beneath the site. Selected soil samples will be analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 8015, BTEX by EPA Method 8020, fraction organic carbon, moisture, grain size distribution, pH and bulk density.

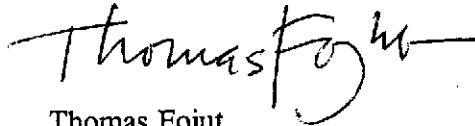
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ENVIRONMENTAL  
PROTECTION  
DIVISION

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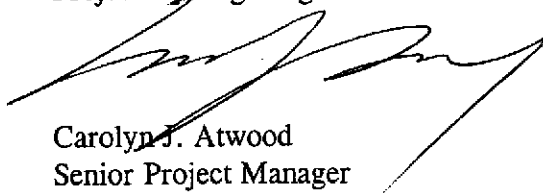
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The field work is scheduled for the week of July 22. WA will notify you of the exact day and time of the field work before we begin. Please call us if you have any questions.

Sincerely,  
Weiss Associates



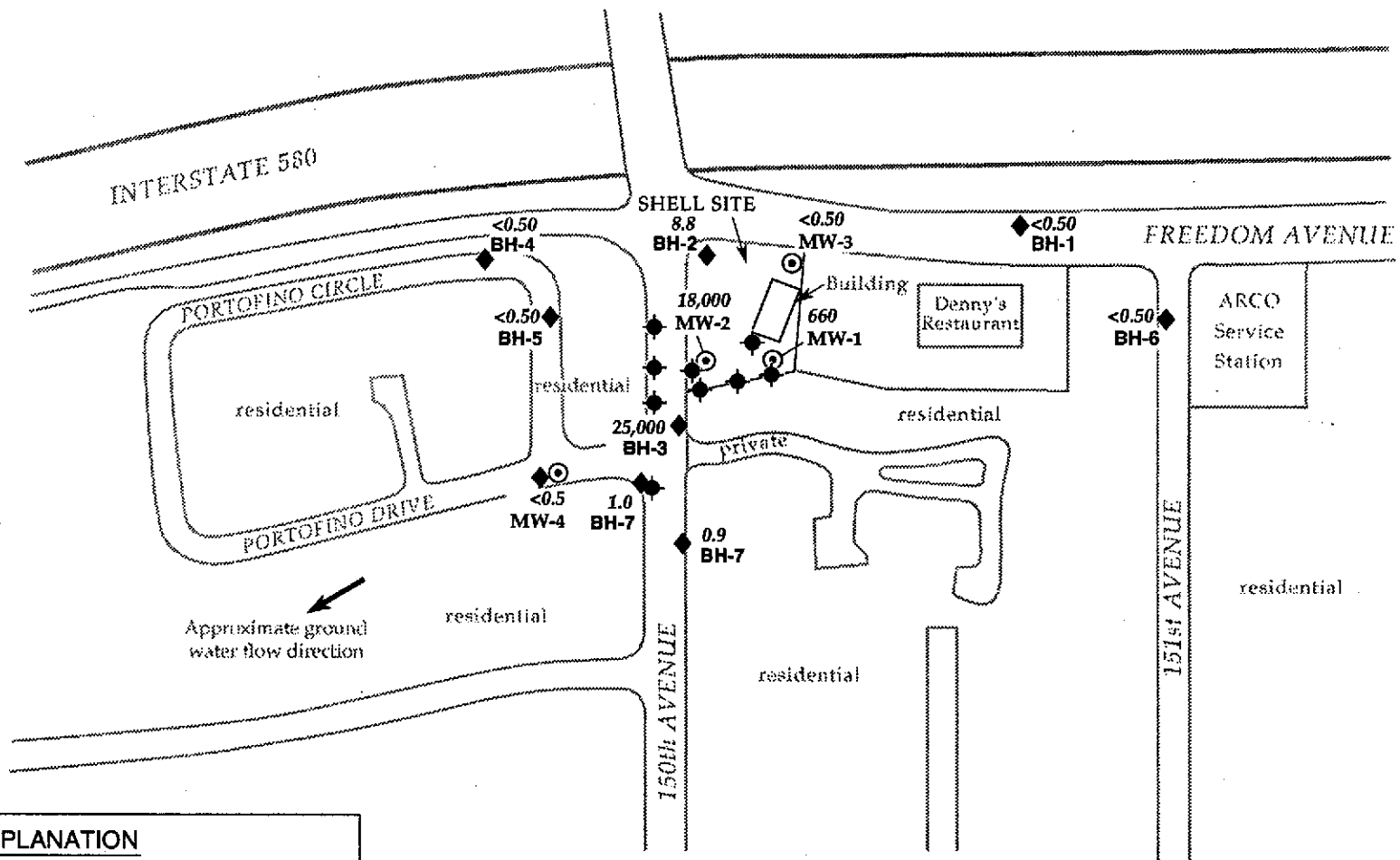
Thomas Fojut  
Project Hydrogeologist






Carolyn J. Atwood  
Senior Project Manager

cc: R. Jeff Granberry, Shell Oil Products Company

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EXPLANATION	
	Proposed soil vapor survey location
	MW-1 Ground water sample from monitoring well, December 1995
	BH-4 Grab ground water sample from soil boring, June 1994 or February 1995
660	Benzene concentration in ground water, in parts per billion (ppb), December 1995 data

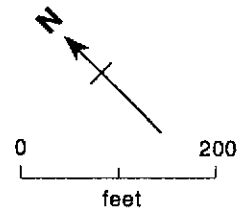


Figure 1. Proposed Soil Vapor Sample Locations - Shell Service Station WIC #204-6852-1404, 1784 150th Avenue, San Leandro, California