ENVIRONMENTAL ENGINEERING, INC
2680 Bishop Drive • Suite 203 • San Ramon, CA 94583
TEL (925) 244-6600 • FAX (925) 244-6601

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October 29, 2001

Mr. Scott O. Seery, CHMM
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: Addendum to SOMA Environmental Engineering, Inc. Workplan Dated October 2, 2001, Former Freedom ARCO Station, 15101 Freedom Avenue, San Leandro, California, **STID No. 4473**

Dear Scott:

Per our telephone conversation of October 24, 2001, the following is an addendum to our workplan dated October 2, 2001 for the subject property:

1. As we discussed, SOMA is planning to install five 4-inch diameter groundwater monitoring wells at the site. This is our experience that 4-inch diameter wells on a long-term basis are more cost effective than 2-inch diameter wells for monitoring purposes and can be used for conducting pumping tests and assessing bio-attenuation parameters in the future.
2. Although, SOMA is planning to collect soil samples at 5-foot depth intervals during the drilling operation, SOMA will use a photo-ionization detector (PID) as a screening tool to collect soil samples at suspected depth intervals. In addition, SOMA will collect one soil sample from capillary fringe zone (an interface between the saturated and unsaturated zone) at each groundwater monitoring well location. The data gathered during this investigation along with the existing data will be used to calculate the total existing petroleum chemical mass in the vadose zone beneath the Site and prepare three-dimensional distribution map of TPH-g, benzene and MtBE.
3. SOMA will collect at least thee samples from saturated sediments at different locations during the installation of groundwater monitoring wells. The sediment samples will be analyzed for total organic carbon content and dry bulk density. The dry bulk density data will be used to evaluate porosity and organic carbon content will be used to evaluate retardation coefficient of petroleum hydrocarbons constituents, such as BTEX and MtBE.

I hope the information provided above will help you to review and approve our proposed workplan at the subject site. I am looking forward to working with you on this project. Meanwhile, please do not hesitate to call me at (925) 244-6600, if you have any questions and comments.

Sincerely,

Mansour Sepehr, Ph.D., P.E.
Principal


cc: Mr. Mohammad Pazdel
Mr. Farrokh Hosseinyoun