

**Greensfelder & Associates**

**consulting geoscience**

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May 7, 2001

Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577  
Attn: Mr. Barney Chan

**MAY 14 2001**

**RE: Clarification of Geoprobe soil sample collection beneath the site located at Alameda Gateway, 2900 Main Street, Alameda, Ca**

Dear Mr. Chan,

Outlined in this amendment to our work plan is the clarification of the collection of soil samples from the above subject site.

Two-inch diameter soil probes will be advanced using truck-mounted hydraulic equipment to push and/or hammer, the Geoprobe ®, sampler into undisturbed soil. Continuous soil samples will be retrieved in clear plastic liners, so as to allow continuous profiling of the lithologic column. The probes will be logged by a State Licensed Geotechnical Engineer, using the Unified Soil Classification System.

Soil samples will be collected upon encountering native soil, at five-foot intervals thereafter, at changing lithologies, and where indications of contamination are present.

The clear plastic liner will be cut and prepared for transport to an analytical laboratory, based upon field monitoring results. The liner will be cut to a six-inch length, using a clean cutting tool designed specifically for this purpose. Each end of the tube will be covered with a clean Teflon sheet, tightly fitting plastic caps, and labeled with the site project number, date, and time of collection, depth interval, company and sampler ID. Pertinent data will be entered on the chain of custody (COC) document. The sample will then be placed in a clean cooler, with ice in a plastic container, pending transport to an analytical laboratory.

The analysis will remain as follows:

During the original removal of Tanks #137, #85A and 85B, and the subsequent excavation, installation of a groundwater monitoring well(s), and groundwater monitoring, Total Petroleum Hydrocarbons as Gasoline (TPHg), Benzene, Toluene, Ethyl Benzene, Total Xylenes (BTEX), Total Petroleum Hydrocarbons as Diesel (TPHd) and Total Oil and Grease (TOG) were detected in soil and/or groundwater. Soil and groundwater samples collected within these tank pits will be analyzed for TPHg, BTEX, MTBE, using EPA Method 5030/8015, 8020/602, TPHd using EPA Method 3550, TOG using EPA Method 5520 e & f, and PNA's using EPA Method 8100. Soil and groundwater samples collected within borings placed in the outer perimeter of the tank pits will be analyzed for all of the contaminants detected within the corresponding tank pit. Select soil samples will be analyzed for TPHd and TOG using Thin Layer of Chromatography. The soil samples will be screened within the field using a GasTech Model 1314.

Thank you,

Helen Mawhinney  
Senior Environmental Specialist

*Roger Greensfelder, R.G.*

