

February 12, 1993

**BLMYER**  
ENGINEERS, INC.



03 FEB 11 11:14 AM '93

Ms. Juliet Shin  
Alameda County Health Care Services Agency  
80 Swan Way, Rm. 200  
Oakland, CA 94621

**Subject: Addendum to Work Plan  
Encinal Terminals  
1521 Buena Vista Avenue  
Alameda, California 94501**

Dear Ms. Shin:

Blymyer Engineers, Inc. has completed the subsurface investigation at the referenced facility as presented in the *Revised Preliminary Site Assessment Phase I Subsurface Investigation Workplan*, dated October 28, 1992.

The subsurface investigation consisted of drilling three soil bores to approximately 30-feet below ground surface (bgs), converting two of the soil bores to groundwater monitoring wells (MW-1 and MW-3) and one to a groundwater piezometer (MW-2), and drilling two additional soil bores (SB-1 and SB-2) to approximately 10-feet bgs. Two soil samples were collected from each bore for laboratory analysis. Soil samples collected from MW-1, MW-3, and SB-2 were analyzed for concentrations of Total Petroleum Hydrocarbons (TPH) as gasoline and benzene, toluene, ethylbenzene, total xylenes (BTEX). The soil samples collected from SB-1 were analyzed for concentrations of TPH as gasoline, TPH as diesel, BTEX, Halogenated Volatile Organic (HVOs), and total oil and grease (O&G). None of the collected soil samples indicated concentrations of any of the analyzed parameters. Groundwater samples were collected from the two installed monitoring wells and from the bottom of the two soil bores. The groundwater samples collected from monitoring wells MW-1, MW-3, and soil bore SB-2 were analyzed for TPH as gasoline and BTEX. The groundwater sample collected from soil bore SB-1 was analyzed for TPH as gasoline, TPH as diesel, BTEX, HVOs, and O&G. Concentrations of O&G of 6 micrograms per liter ( $\mu\text{g/L}$ ) were detected in the grab groundwater sample collected from soil bore SB-1.

Based on the information collected during the initial subsurface investigation, Blymyer Engineers proposes to drill and continuously core one soil bore to a depth of approximately 30-feet bgs in the vicinity of SB-1 in order to obtain a more complete knowledge of the complex hydrostratigraphy at the site. Blymyer Engineers also proposes to install a groundwater monitoring well in the vicinity of SB-1 within 10-feet in the down-gradient flow direction of the former oil collection sump in order to obtain a groundwater sample which more accurately represents the natural groundwater in the vicinity of the removed collection sump. Two soil samples will be collected from the soil bore prior to the installation of the monitoring well and one groundwater sample will be collected from the monitoring well following installation and development. The collected soil and groundwater samples will be analyzed by a state of

Ms. Juliet Shin  
Alameda County Health Care Services Agency

February 12, 1993  
Page 2

California laboratory for O&G by EPA Method 418.1. The soil sample locations will be determined from the hydrostratigraphic information obtained from the exploratory soil bore. All proposed field activities and soil and groundwater disposal will be conducted as detailed in the *Revised Preliminary Site Assessment Phase I Subsurface Investigation Workplan*, dated October 28, 1992.

Upon completion of the additional proposed work, a final report will be prepared for submittal to the Alameda County Health Care Services Agency, Department of Environmental Health.

Please contact me at (510) 521-3773 with any questions or comments.

Sincerely,  
Blymyer Engineers, Inc.



Laurie A. Buckman  
Project Geologist