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JEB FORT STORY, VA
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LETTER REQUESTING ADDITIONAL INFORMATION FOR SITE CHARACTERIZATION REPORT JP-4 TANK FARM FORT STORY VA
3/11/1993
COMMONWEALTH OF VIRGINIA DEPARTMENT STATE WATER CONTROL BOARD

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COMMONWEALTH of VIRGINIA

STATE WATER CONTROL BOARD
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Executive Director

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Please reply to: Tidewater Regional Office
287 Pembroke Office Park
Suite 310 Pembroke No. 2
Virginia Beach, Virginia 23462-2955
(804) 552-1840

MAR 1 1 1993

Commander
U. S. Army Transportation Center
ATTN: ATZF-EHE, Joan VanDervort
Fort Eustis, Virginia 23604-5332

Re: SWCB PC#90-0715 Location: JP-4 Tank Farm, Hospital Road, Fort Story Army Base, Virginia Beach

Dear Sir:

Thank you for providing your Site Characterization Report (SCR) on subsurface petroleum contamination for the above-referenced site. We apologize for the delay in reviewing this report. Based on review of this information and reported site conditions, additional site characterization information is required. Please submit the required information to this office by April 26, 1993. The areas which need to be addressed or require additional information are as follows:

Proposed Remediation Methods

Soil Excavation

1. Please specify the area, depth, and volume of soil to be excavated. Locate this area on a site map.

2. What are the proposed excavation contaminant level endpoints?

3. According to the SCR, tank JP4-2 was the leaking tank. It is located between tanks JP4-1 and JP4-3. Will these tanks be taken out of service and removed during excavation procedures? If not, how will you treat contaminated soil within the vicinity of these tanks without jeopardizing tank integrity?

Bioremediation Cell

1. Please locate the proposed bioremediation cell on a site map.

2. The proposed ex-situ bioremediation does not adequately address ground water monitoring in the vicinity of the treatment cell. Monitoring wells placed around the treatment cell are needed to assess possible leaching of the contaminants or nutrients to the ground water. Quarterly monitoring of the wells would be appropriate.

Other Remediation Methods

1. Please discuss the feasibility of soil excavation with offsite treatment/disposal as an alternative to soil excavation and ex-situ bioremediation. Limited soil removal (<500 cubic yards) with offsite disposal may be appropriate for this site for the following reasons:

   - dissolved phase contamination is negligible at this site (you may need to verify this by resampling the ground water for current conditions)

   - the area of soil contamination appears to be less than 500 cubic yards

   - approval of a limited soil excavation plan would not require a Corrective Action Plan (CAP) or a CAP permit

2. Please discuss the feasibility of soil vapor extraction (SVE) as an alternative remedial approach or in combination with soil excavation. If the non-leaking tanks are to remain in service, SVE may be an option for this site.

Please provide a recommendation of the most appropriate remediation technology for the site based on the contaminant situation, risks posed, and cost considerations. If you have any questions, please call Amy Webster at (804) 552-1157.

Sincerely,

David E. Borton
Ground Water Manager

cc: SWCB-TRO-OE&CA ref PC#90-0715