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ADDENDUM TO  
GENERAL SERVICES ADMINISTRATION  
Preliminary Report on Tank Removal,  
Site Investigation, Additional  
Investigation & Tank Closure Plans  
Prepared by Tim K. Smith (TKS Consulting, Ltd.)  
May 19, 1994

Ms. Juliet Shin  
Alameda County Health Care Service  
80 Swan Way, Room 200  
Oakland, CA 94621

Dear Ms. Shin,

The following is an addendum to the GSA expanded investigation plan. The following additions and comments are in reference to your letter to Beverly Chin of GSA of May 11, 1994. I will be glad to discuss any of the points with you and hope that your office can assist as in expediting some of the water discharge issues.

ITEM 1

- o The soil boring are proposed to be completed with a portable lab on site. Soil borings locations will be contingent upon results obtained from mobil lab directing boring locations to chase the actual contamination and not just randomly grid the property.

ITEM 2

- o The floating product found was small beads of Bunker "C" (viscous black oil) which were apparently liberated from the soil matrix during boring. The oil is bound in the clayey interface zone within pockets between ground water and the unsaturated zone (approximately 1 foot). The intimate relationship of this heavy oil and the matrix will make extraction of the 'product' from this zone by skimming relatively fruitless (i.e. the heavy oil tends not to move much). It is my opinion that time and money will be better spent to outline the contamination and expedite remediation.

ITEM 3

- o Water samples from the tank #2 area will be analyzed for 8270 components. The contamination from tanks 3 and 4 have been characterized and do not contain 8270 components. Systematic analysis for components not in the contamination seems unjustified.

ITEM 4

- o The characterization of tank #3 and #4 during bioconversion/cleanup will be completed by using TPH-d, BTEX and O & G by 5520. It should be noted that 418.1 is the same procedure as 5520 but is an older designation.

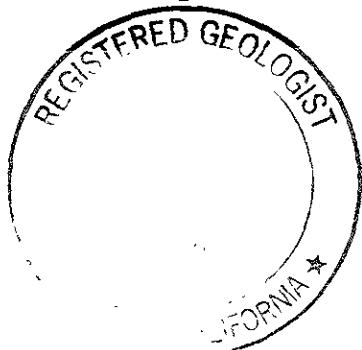
ITEM 5

- o It is proposed that the liquid from the baker tanks will be disposed of in the EBMUD Sewage Treatment Plant. We are currently working on details of this and will keep you posted of the progress. It appears that there is no way to dispose of the water to the Alameda storm sewer system without a WQCB waste discharge permit. Beth Koren, the City of Alameda Storm Water Discharge officer is willing to help expedite this process if it becomes our only option.

I would appreciate any suggestions and help your office might provide along these lines. It appears that this type of procedure is going to become more and more common and development of protocol for these one time discharges which will accompany hydrocarbon site cleanups seems prudent. We feel the time, money and environmental benefits of this developing technology justify the development of new protocols.

ITEM 6

- o Samples will be collected under the ballast slabs and adjacent to the tanks at the tank bottom elevation per your request.



Respectfully,

Tim K. Smith  
Reg. Cal. Geologist #4013  
Reg. Environmental Assessment #291  
Oregon Geologist #01430

TKS:slt

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