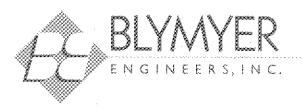
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By dehloptoxic at 8:05 am, Feb 20, 2007



February 16, 2007 BEI Job No. 202016

Mr. Barney Chan Alameda County Environmental Health Environmental Protection Division 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Subject:

Response to January 2, 2007 Letter

Dolan Trust Property 6393 Scarlett Court Dublin, California

Fuel Leak Case No. RO0000210

Dear Mr. Chan:

Thank you for the review and comments of the *Third Quarter 2006 Groundwater Monitoring Event* Report dated December 1, 2006. This letter contains a response to the Technical Comments contained the referenced letter. A workplan for the proposed work will be submitted under separate cover.

Technical Comment 1: Blymyer Engineers is in agreement that a microbial assay should be conducted at the site in order to determine if an appropriate microbial population is present in subsurface groundwater to allow the natural degradation of petroleum hydrocarbons in the subsurface in the presence of increased oxygen. The microbial assay will also help determine if augmentation of the current microbial population might allow faster degradation. As a consequence, Blymyer Engineers proposes to collect groundwater at three wells (upgradient, excavation, and downgradient) to determine trends across the site. It is intended that the samples will be collected at the time of the upcoming groundwater monitoring event, and the results will be reported within a quarterly groundwater monitoring report. The samples will be analyzed for total microbial population, and the hydrocarbon-degrading population within the total population at the three wells, as recommended by the analytical laboratory, Cyto Culture Environmental Biotechnology in Point Richmond, CA. We have included a second event, should it be appropriate.

Technical Comment 2: We are in general agreement of the recommendation to install ORC socks in well MW-4; however, we have additionally consulted with Regenesis, Inc. (Regenesis), provider of ORC products. Regenesis additionally recommended the addition of RegenOx to well MW-4 prior to the installation of the ORC socks in the well as an appropriate method to provide a more rapid decrease in fuel hydrocarbon concentrations, and to extend the life of the ORC socks. Because RegenOx is essentially a liquid, it will be removed and distributed by natural process in the vicinity of the well, will not solidify in the well, and will not make the well unavailable for future monitoring and sampling. Conversely because it will not be injected into the subsurface soils and will be distributed by natural groundwater movements, the radius of influence will be more localized, which is presumed beneficial if the source is localized to well MW-4, as suspected.



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Either approach will require, as mentioned in the referenced letter, a followup post-remediation sampling (presumed to be a Geoprobe soil bore investigation) to determine that the additional dissolved oxygen (DO) generated from the RegenOx and ORC socks had the intended effect on the soil and groundwater source at the site. This option will require a minimum of 6 to 12 months of quarterly groundwater monitoring to observe changes in DO concentrations in groundwater so that an appropriate time can be determined to conduct the Geoprobe investigation.

With respect to quarterly groundwater monitoring, Blymyer Engineers further recommends that a reduction in the number of wells be approved after the next groundwater monitoring event. Wells MW-1, MW-3, MW-6, MW-7, and MW-8 do not significantly contribute to the understanding of the contaminant distribution at the site. Elimination of purging, sampling, and analysis of groundwater of these wells will help reduce total expenditure at the site. Depth to groundwater from these wells should continue to be measured so that groundwater gradient and flow direction is better understood at the site.

Technical Comment 3: Blymyer Engineers will arrange to have well MW-5 sampled for fuel oxygenates based on previous groundwater analytical results, and as requested by the County. Blymyer Engineers also believes that sampling of well MW-4 is appropriate in support of determining the source of the hydrocarbons impacting groundwater in the vicinity of well MW-4, and will conduct a minimum of one groundwater sampling event at well MW-4 towards that end.

<u>Technical Comment 4</u>: Information relative to this comment has been previously forwarded under separate cover by a representative of the Estate.

If you should have any questions, please call Mark Detterman at (510) 521-3773.

Sincerely,

Mark E. Detterman, C.E.G. 1788

Senior Geologist

Michael S. Lewis

Vice President, Technical Services

c. Mr. Michael Fitzpatrick, Executor, Estate of Michael Dolan Peter MacDonald, Esq.
Wanden Treanor, Esq.
Mr. John Steinbuch, Colliers International