

Challenges in Remediation of a Large, Dilute, Aerobic Solvent Plume

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EPA is evaluating the possible use of aerobic co-metabolic bioremediation (ACB) to address a 7000' long TCE plume at the Hopewell Precision NPL site in R 2. Although current data indicates contamination levels generally less than 100 ppb, the plume is causing MCL and Vapor Intrusion exceedances. This presentation will be on a "work in progress" as we are still in the design stages for the pilot-scale ACB effort and in evaluation of the presence and prevalence of abiotic and biotic natural attenuation processes, which may contribute to efforts to restore the resource. Besides discussing the site and its history and the general attributes of ACB, we will discuss efforts to come up with the cheapest possible amendments and the cheapest possible delivery mechanisms for this large, dilute plume.