

Partitioning of ethoxylated nonionic surfactants in DNAPL/water systems

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Contamination by organic pollutants such as chlorinated solvents in the subsurface has been a serious problem. Surfactant enhanced aquifer remediation (SEAR) is a promising technology to remove dense nonaqueous phase liquid (DNAPLs) which is a pool consisted chlorinated solvents in the bottom of aquifer and the continuous source of aquifer contamination. In SEAR, surfactant behavior, which is mainly partitioning between DNAPL and water, is an important factor to apply real contaminated site remediation. Therefore, partitioning of surfactant in water/NAPLs system in the absence or presence of alcohol and multicomponent NAPLs should be investigated.