

Occurrence and mobility of petroleum hydrocarbons in groundwater

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The investigation and design of efficient site remediation measures for petroleum contaminated sites depends on thorough site characterization with particular attention to spatial variation in geology and hydraulic conductivity, and careful consideration of the physical and chemical characteristics of both the site geology, and the chemical compounds of concern.

This presentation briefly outlines the procedures involved

in contaminated site characterization, and factors influencing the distribution and mobility of petroleum hydrocarbons in the groundwater system. A general overview of the partitioning, fate and mobility of petroleum hydrocarbons in the subsurface is presented. Methods and limitations for estimating free product and contaminated soil volumes, monitoring clean-up progress, and groundwater sampling will be briefly addressed.