

Injection of Powdered Activated Carbon in Low Permeability Strata

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An underground storage tank site was high-energy injected with an activated carbon-containing product BOS200[®]. This was the sole remedy used on the site. The carbon distributed in the subsurface as demonstrated by the collection of 40 geological cores. The carbon inclusion characteristics were cataloged. Monitoring points for groundwater were installed post-injection. Groundwater BTEX concentrations decreased significantly. Over 90 soil and aquifer core samples were collected. The contamination mass retained on soil and aquifer materials decreased significantly. Calculated $\frac{1}{2}$ -lives post-injection were 3 to 15-fold improved for BTEX against published values. The site received regulatory closure in 2022.