

Brownfield Development - Former Rubber Works

Background

This 2.9Ha site was occupied by a factory which produced rubberised fabric and sheeting. The factory was in operation for nearly 40 years and a wide range of processes took place on the site at different times. The redevelopment proposed was for residential properties each having a private garden.

Investigation

A desk study and site walkover identified a number of key areas as potential sources of contamination, including: underground storage tank farms, plant where solvents and oils were handled, workshops, a wash-down bay and interceptors.

Groundwater monitoring identified near saturation toluene contamination in the shallow fluvial aquifer beneath the site, along with trichloroethene contamination in an underlying Tertiary sand aquifer.

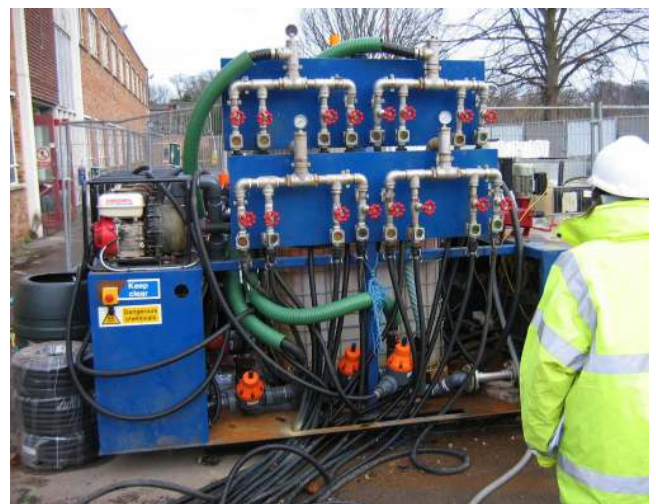
In-situ Treatment of Groundwater

A programme of in-situ treatment of the groundwater by chemical oxidation using Fenton's Reagent and Permanganate was agreed with the Environment Agency. It was implemented successfully, prior to the demolition of the factory.

Groundwater monitoring continued through the re-development phase without disrupting site works.

Remediation and Verification

We were on site throughout the demolition and site clearance phase, during which time shallow soils remediation was carried out. The site remediation and validation was carried out with full regulatory approval.



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