SUSTAINABLE REMEDIATION

case study

The site was to be redeveloped as a main dealership close to the city centre.

Historically the site had had several uses and various contaminants particularly heavy metals were present within the soils.

The main problem was the heavy fuel oils in the soils and groundwater, particularly the free phase which had recorded thickness up to 450mm.

An insitu treatment system was installed as part of the redevelopment works. The system was completed buried and continued to operate once the site was complete and operational as a car dealership.

Client

International motor company

Site

Former foundry and industrial site, Sheffield, South Yorkshire

Problem

Historical spillage of heavy fuel oils used to fuel they foundry furnaces. Impact to the quality of the localised groundwater and nearby river

Technologies utilised

Multi phase extraction, insitu soil washing, phase separation, vapour and liquid phase carbon absorption

Remediation criteria

Removal of free phase < 1mm, groundwater TPH < 5mg/l

Validation

Independent consultant

mel environmental solutions

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