

BMT Sparkbrook

Site Area: 0.52 Hectares
Former Use: Metal Treatment Services
Client: Confidential Investment Company
Value: £500,000

The site historically provided metal treatment services with the industrial history of the site established since 1904.

The client undertook voluntary remedial measures to reduce the principal risk drivers associated with the site, namely Cr(VI):

- Potential and identified impact on controlled waters.
- Potential long term land ownership liabilities on neighbouring sites relating to off-site migration of impacted groundwater.
- Potential, toxic effects of contaminated near surface soils if concrete floor slab is penetrated, for example for construction and maintenance of underground services.



The client's prime objective in instigating remedial works at the site was to reduce the long term liabilities associated with ground contamination at the site and ensure that it is suitable for use as a warehouse building.

Provectus developed and implemented a remedial strategy to achieve the remedial objectives, utilising a combined approach as indicated below:

- Excavate and remove areas of significant Cr(VI) contamination within the near surface soils in and around the most effected area on site, adjacent to the former tanks storage and treatment area.
- In-situ treatment of Cr(VI) contaminated groundwater and saturated soils by means of introducing a reducing agent i.e. Metals Remediation Compound (MRC™) into the underlying aquifer. Thus reducing Cr(VI) to Cr(III) which is less toxic and of lower solubility.

The key benefits was that the existing factory building was not affected and the source excavation works were undertaken around the buildings foundations with residual source and groundwater treatment taking place by in-situ methods causing little further disruption to the surrounding environment.