



Dual Phase Extraction

Terra Vac (UK) Ltd and Brett Oils

Terra Vac (UK) Ltd was asked by Brett Oils, a regionally based oil supplier, to undertake the remediation of their former blending and distribution facilities site in Lincoln, in preparation for redevelopment for social housing

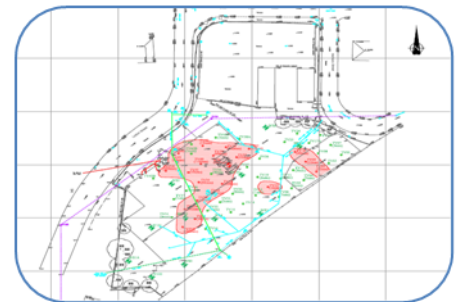
A site in Lincoln, owned by Brett Oils, had been used as an oil blending works since the 1970's. Brett Oils, based in the North East of England was founded in the late 1800's, at a time when the market for lubricants and greases for the 'wheels of industry' was fast expanding. During the mid-1900's the company continued to expand, this time in the domestic heating market. The growing use of oil burners in central heating provided opportunities for Brett Oils to supply oils and paraffins to the fast-growing domestic heating industry



In 2007, the company was acquired by GB Fuels, and certain sites were earmarked for re-development, including the site in Lincoln.



During the preparation of the site for redevelopment, a plume of mineral oil, extending approx. 200m² was identified. A number of challenges presented themselves in developing an appropriate remediation plan. Firstly, the site had a very shallow groundwater regime. Secondly, there were known to be a complex network of adopted drains and easements crossing the site. Thirdly, old sewers, installed in the 1940's were partially submerged under the water table, allowing contaminated water to leak into the drains with the possibility of then being transported via the sewer system to the nearby River Witham.



Terra Vac designed an in-situ remediation system including a multi phase extraction system, consisting of 65 extraction wells, designed to remove the viscous, free product mineral oils. In excess of 5,000 litres of free product were removed from site. The central slab and relic foundations were excavated and crushed on site, providing clean material for use in the redevelopment. Some 200m³ of grossly contaminated material were removed from site for disposal and some 280m³ of bulk impacted soils were treated on-site, providing additional clean material for use in the re-development.



The remediation program was completed and received regulator's sign-off in time for the redevelopment programme to proceed as planned.

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Contaminated Land and Groundwater Remediation