



Eneotech Environmental Ltd were employed by MJCA to conduct soil and groundwater remediation programme at a former Colas depot in Tonbridge, Kent, for Shell U.K. Limited.

The contaminants were odorous LNAPL oil and volatile hydrocarbons, and the challenge was to control the odour during the earthworks to ensure that there would be no impact to third parties. This was very important due close proximity of the site to the residential area and busy roads. The measures of odour control included VOC neutralizing spray along the boundary of the site, and sealing of open excavations with a chemical foam agent. The foam was applied on the opened surface and seals the surface so that no odours can escape out of the excavation. This foam is neutral and not harmful to the environment and can be disposed of as regular waste, with no increase in tonnage. It was the first time that this foam has been used to seal odorous excavations in the U.K.

Rigorous monitoring programme was set up to check VOC levels. The data recorded was processed continually to view the results and decide whether further action is needed in a real time environment. Monitoring of dust and noise was also carried out.

During excavation underground storage tanks and about 500 m<sup>3</sup> of concrete obstructions had to be removed. Any concrete found was crushed and backfilled into the cleaned excavation areas. The contaminated soil, a total of 13,000t, was disposed of to a licensed landfill. Contaminated water from the open excavations was pumped into the mobile groundwater treatment plant consisted of three separators and two carbon absorption vessels. The treated water was disposed of to a foul sewer under the discharge consent

Eneotech Environmental Ltd. provides a wide range of environmental services to enable the redevelopment of

contaminated land. We offer a full range of technologies and services including hazardous waste management, thermal desorption, bioremediation (windrow turning and ex situ static methods), soil vapour extraction, air spraying, soil washing and stabilisation and solidification.

Eneotech Environmental Ltd is backed by decades of experience and interdisciplinary skills amassed by the Eneotech group of companies.

Our company Eneotech Environmental Ltd ranks as one of the most highly skilled and dependable services providers specialising in site rehabilitation, waste disposal and service platform preparation.

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