

SCHEME

Attenuation Tank

CLIENT

Killingholme Humber Sea Terminal

CONSULTANT

Posford Haskoning

CONTRACTOR

Edmund Nuttall Ltd

PIPE APPLICATION

2.28km of perforated and 360m of solid WEHOLITE HDPE pipe



### Innovative drainage solution for Humber Sea Terminal



Site preparation and groundworks at the rapidly expanding Humber Sea Terminal, Killingholme remains on target following the design of an environmentally-friendly solution to prevent flooding of the 65 acre site.

The design allows for the rapid collection and storage of groundwater and surface stormwater before its treatment and gradual release into the nearby Humber Sea Estuary. As part of the tank design, mechanical filters are included at regular intervals to separate any petrochemicals from the water.

The largest consignment of perforated WEHOLITE supplied by ASSET International Ltd to date, the attenuation tank comprises 2.28 kilometers of perforated and 360m of solid HDPE pipe providing 1,529m<sup>3</sup> storage capacity for the current development.

Sub-agent Andy Taylor said, "Given the scale and location of the project, we had to ensure that our

choice was not only cost-effective but environmentally-friendly."

"The relative light weight nature of WEHOLITE enabled us to install the pipe in 14 metre lengths using lighter equipment and thereby reducing our installation time. In addition, installation could be done at up to five areas simultaneously, leading to further labour cost reductions," Mr Taylor concluded.

The site's proximity to the Humber Sea Estuary meant that the design also had to allow for the possible flotation of the tanks. This was overcome by placing ballast on top to secure the WEHOLITE pipes.

The storage facilities include a compound for cars, storage containers and parking for trailers. Additional facilities include 3 break bulk berths, extensive storage facilities and a private on-site rail head capable of handling 30 rail cars.

### THE ESSENTIAL SOLUTION FOR PIPE USERS NATIONWIDE

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