



## Woolston Riverside Advance Works

### The Issue

EDSR worked in partnership with Bam Nuttall on the remediation of the 13 hectare former Vosper Thornycroft Shipyard in Southampton. The site was impacted with hydrocarbon and asbestos contamination in the made ground soils.

### The Objective

To develop and implement a remediation strategy to enable discharge of the Planning Conditions associated with the Remediation of the site in order to prepare the site for a mixed end use of both residential and commercial areas.

### Summary of Works

- Demolition, dismantling and asbestos removal
- Contaminated land remediation including treatment by bioremediation techniques
- Construction to sub-base level for new road access network
- Groundwater treatment
- Treatment of soils containing Asbestos
- Major earthworks
- Soil stabilisation
- Treatment of invasive plant species.

### Client

South East of  
England  
Development  
Agency (SEEDA)

### Location

Woolston  
Riverside,  
Southampton, UK

## The EDSR Solution

EDSR works included the following:

- Design and implementation of a remediation strategy and execution of all works required to discharge the relevant planning conditions and facilitate the sale of the land to future developers. This involved undertaking Detailed Quantitative Risk Assessment (DQRA) and detailed negotiations with Regulators to agree remedial targets for the site.
- Develop and implement the environmental monitoring strategy for the site to provide reassurance to the residents and regulators that the works had no adverse impact on both the local population and the wider environment.
- Demolition of large heavily reinforced concrete and brick buildings, including asbestos removal, and dismantling of former dockside crane.
- Break-out, crushing and screening for re-use of approximately 35,000 m<sup>3</sup> of existing concrete and bituminous hard standings
- 176,000 m<sup>3</sup> of excavation and fill to re-profile the site to suit the future development.
- Excavation and treatment of hydrocarbon contaminated soils from identified hotspots. Use of bioremediation techniques to treat soils for re-use on site.
- Excavation and treatment of 60,000 tonnes of soils containing asbestos using specially designed screening equipment and trained personnel in order to achieve remediation targets agreed with the Regulators. 99% of soils were recovered for re-use on site.
- Treatment of all groundwater encountered during earthworks using on-site water treatment plant.
- Validation of all excavated and treated soils, involving the use of an electronic data management system. Preparation of Validation Reports and sign-off from Regulators for discharge of Planning Conditions.
- Construction of a capping layer across the site for the protection of human health.
- Soil stabilisation/solidification using granulated lime and cement additives.
- Construction of new foreshore area along river bank
- Excavation and disposal of soils affected by Japanese Knotweed growth
- Construction to sub-base level for new road access network



### For more information please contact:

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