



CARNWATH ROAD

As part of the Thames Tideway Tunnel (TTT) civil engineering works, Land & Water was contracted to carry out a capital dredge and obstruction removal to provide a level grounding base for barges working on the TTT Carnwath Road site.

The aim of the project was to ensure there were no river bed obstructions which could damage vessels mooring alongside the wharf.

Project Delivery

- There were initially many challenges with the project. Dredging had to be monitored closely so that any clearing of the water bed was completed to the correct levels. This meant that Land & Water needed to obtain good access to the chosen site.
- Another challenge that the team faced was positioning the necessary pontoon and any other associated floating grounding. The project had to operate within clients' barge loading time with all noise and light pollution kept to a minimum.
- In response to the challenges, Land & Water created a 3D software map and used 3D excavating equipment that was fitted to the dredging excavator in order to clear the entire radius of waterbed correctly. As a result, careful consideration of any vessel placement was essential as close and easy access to the site of work was fundamental.
- Land & Water focused on completing the project as quickly and efficiently as possible. The project operated around a tidal shift pattern in order to procure longer working shifts. The team also worked on the night tide to avoid the client barges and operations thus, avoiding interruptions and limiting disruption as a result of the project. Pollution levels were also decreased by working with minimal deck lighting and noise was muffled where possible. Staff were fully briefed in to ensure minimal environmental impact.

Find us on the internet at
www.land-water.co.uk

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Project Particulars

- The project was carried out over two phases due to environmental constraints
- Total tonnage removed was 11,540 tonnes to Land & Water's Rainham site
- Successful dredge level achieved
- Completed on time and within budget
- Successful removal of obstruction/vessel hazard



PROJECT
VALUE:

£783,000