
# Thames Tideway Sewer – East (UK) Waterproofing

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| **Country** | United Kingdom |
| **Type** | Sewer |
| **Client** | Tideway (Bazalgette Tunnel Limited) |
| **Main Contractor** | CVB JV (Costain, Vinci, Bachy Soletanche), Loclon |
| **Execution of the work** | Renesco UK Ltd. |
| **Designer** | Aecom, Arup, Atkins, Mott MacDonald, OTB[e] Jacobs |
| **Construction Period** | 2019 – 2022 |

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## Project Description

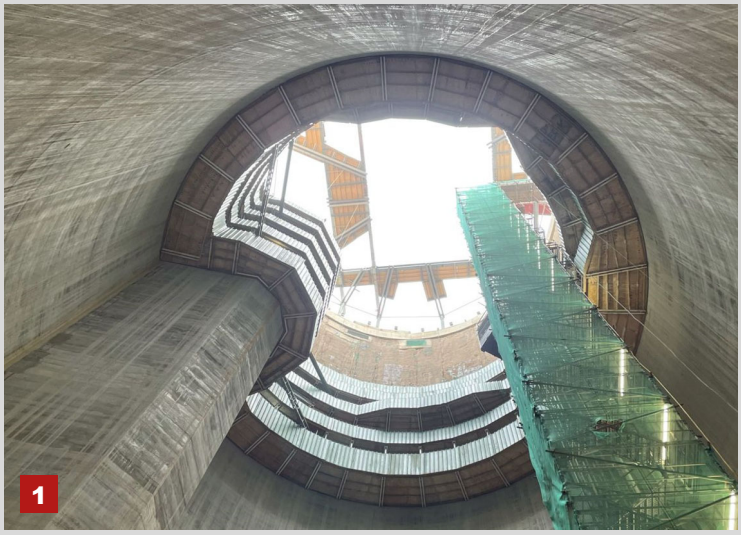
The 25km tunnel beneath London, the ‘super sewer’, will run from the Acton Storm Tanks in West London to the Lee Tunnel at Abbey Mills in East London, with most of the tunnel being under the River Thames. The flow from over 30 combined sewer overflows (CSOs) will be diverted from the sewerage network into the main tunnel, where it will flow by gravity to the existing Lee Tunnel. From there it will run to the Tideway Pumping Station, to be pumped to Beckton sewage treatment works. The main tunnel construction uses Tunnel Boring Machines (TBMs). Additional works will intercept the CSOs and connect them to the main tunnel.

The East section is the deepest part of the project, reaching depths of 65m and consists of a 5.5km tunnel from Chambers Wharf in Bermondsey to Abbey Mills Pumping Station in Stratford, with a smaller connection tunnel from Greenwich Pumping Station to Chambers Wharf and four drop shafts.

## Scope of Service

Vulcanization/ Jointing of elastomer (rubber) waterstops at each main shafts, Chambers Wharf (CHAWF), Deptford Church Street (DEPCS), Earl Pumping Station (EARPS), Greenwich Pumping Station (GREPS) and King Edward Memorial Park (KEMPF). Also Supply & Installation of waterproofing sheet membrane system under pressurized water conditions at CHAWF and KEMPF.

- Sheet waterproofing, PVC-P, 2mm & BA-Anchor Installation for the Connection Tunnels
- 1'200g/sqm PP protection geotextile
- PVC-P water barriers, 500/30/6
- Contact grouting injection tubes
- Termination at TBM segments and pre-cast-concrete-elements
- Vulcanization/ Jointing of elastomer (rubber) based waterstops
- Thermal Welding/ Jointing of PVC- based waterstops






1. Shaft Lining
2. Waterproofing Termination at KEMPF
3. Jobsite at KEMPF