



**Tideway: a
cleaner, healthier
River Thames.**

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The Thames Tideway Tunnel (TTT) is the second of two major new tunnels designed to collectively capture sewage from the 35 most polluting combined sewer overflows built by the Victorians.

Why it's needed.

London's Victorian sewerage network has done a superb job for the last 150 years, but simply cannot keep up with the demands of the capital in the 21st Century and urgently needs future-proofing.

The sewers built by Sir Joseph Bazalgette in the 1860s still form the backbone of London's sewerage system today. They are in excellent working condition, but have run out of capacity. Built when London's population was two million and designed for four million, they are now struggling to serve a capital city with more than eight million people; a figure that continues to rise.

The Thames Tideway Tunnel will stem the flows from the 34 'combined sewer overflows' (CSOs) identified by the Environment Agency as the most polluting, and connect up with the Lee Tunnel. This has already been constructed by Thames Water to take wastewater, otherwise destined for the river, to Beckton sewage works in East London.

A cleaner healthier river.

In August 2015, the water regulator Ofwat issued a licence to Bazalgette Tunnel Limited, which trades as 'Tideway', to design, build, commission and maintain the tunnel. Construction begins in summer 2016 and is scheduled for completion by early 2024.

Tideway's challenge is to build the 25km tunnel, up to 65m below London. Its vision is to reconnect London – and Londoners - with the river. This is because delivering a cleaner, healthier River Thames will have many benefits for the people who live and work in London and those who use the river, for public amenity or leisure. It will also rejuvenate the river economy and provide new areas of public realm on its banks.

The tunnel in numbers.

Length: 25km for the main tunnel. Two long connection tunnels will be 4.6km and 1.1km long.

Depth: In order to be self-cleaning the tunnel needs to fall one meter every 790m. Starting from 35m deep at Acton Storm Tanks it will finish at 65m deep at Abbey Mills Pumping Station.

Diameter: The main tunnel will be 6.5m internal diameter between Acton Storm Tanks and Carnwath Road Riverside and then 7.2m internal diameter to Abbey Mills Pumping Station.

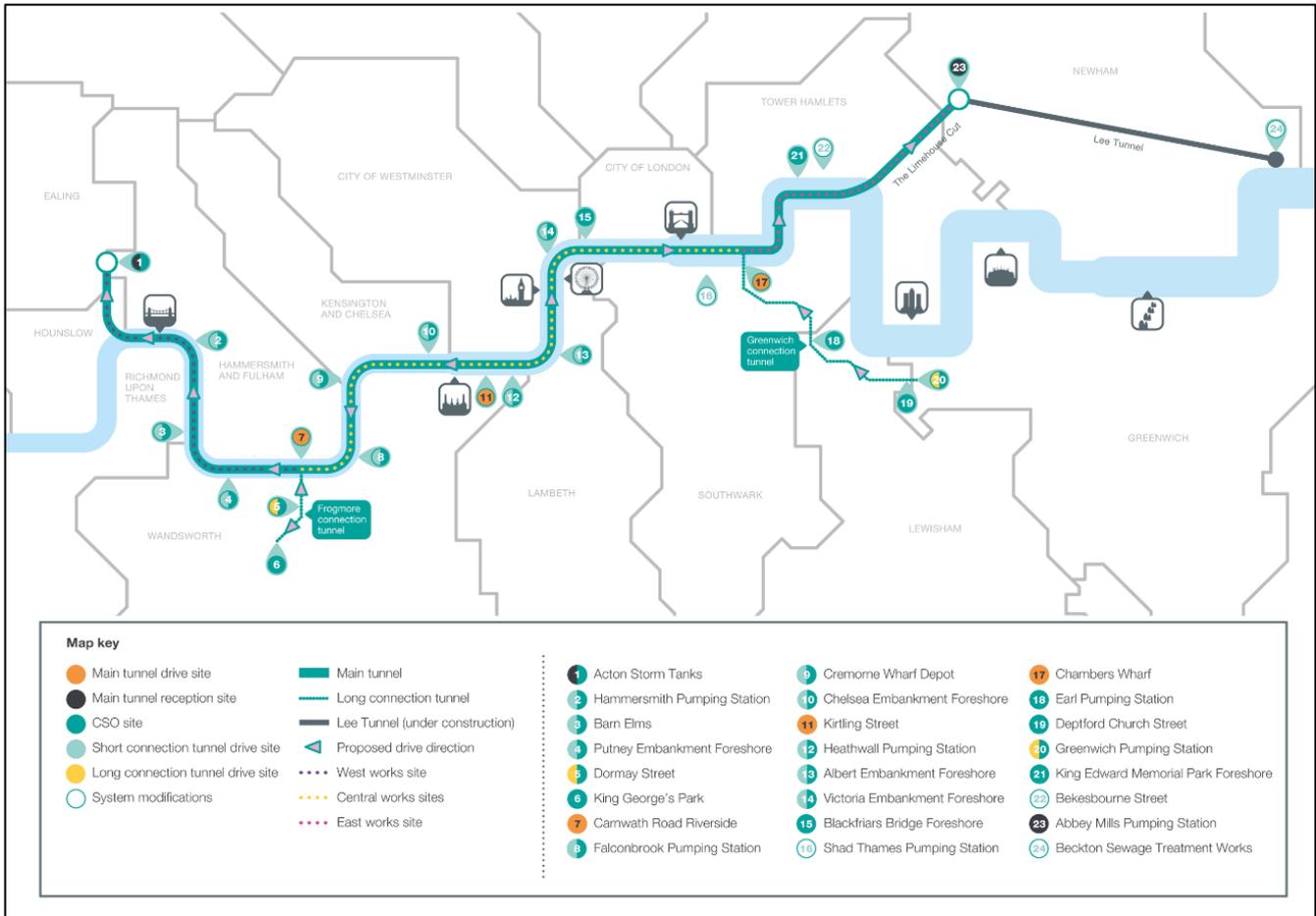
Capacity: 1.24million cubic metres.

Design life: 120 years.



The Lee Tunnel has already been completed and will be linked to the Thames Tideway Tunnel once complete.





The route.

At 25 kilometres long, up to 65 metres deep, and more than seven metres in diameter, the Thames Tideway Tunnel will be the biggest infrastructure project ever undertaken by the UK water industry. The tunnel will generally follow the route of the River Thames to enable it to connect to the combined sewer overflows (CSOs) that are located along the riverbanks, passing underneath all other infrastructure in London and through a variety of different ground conditions from Acton to Limehouse. It then continues north-east to Abbey Mills Pumping Station, where it will connect to the Lee Tunnel.

Delivering a lasting legacy.

Tideway is committed to delivering the best value for money for Thames Water’s customers, while maximising the long-term benefits it delivers to Londoners.

Tideway has signed up a team of world-class contractors to offer sustainable and cost-effective methods of construction.

Innovative engineering in the design phase has already reduced the tunnel from the initial 32 kilometres proposed, down to 25 kilometres, and reduced the number of construction sites needed from 45 to 24.

In 2015-16, Tideway and its delivery partners worked together to plan its legacy programme, including a Skills and Employment Plan outlining the delivery of jobs and skills and a more wide-reaching Legacy Plan which defines commitments across the themes of People, Environment, Health and Safety, Economy and Place.

To find out more about Tideway’s lasting legacy visit: <https://www.tideway.london/>

