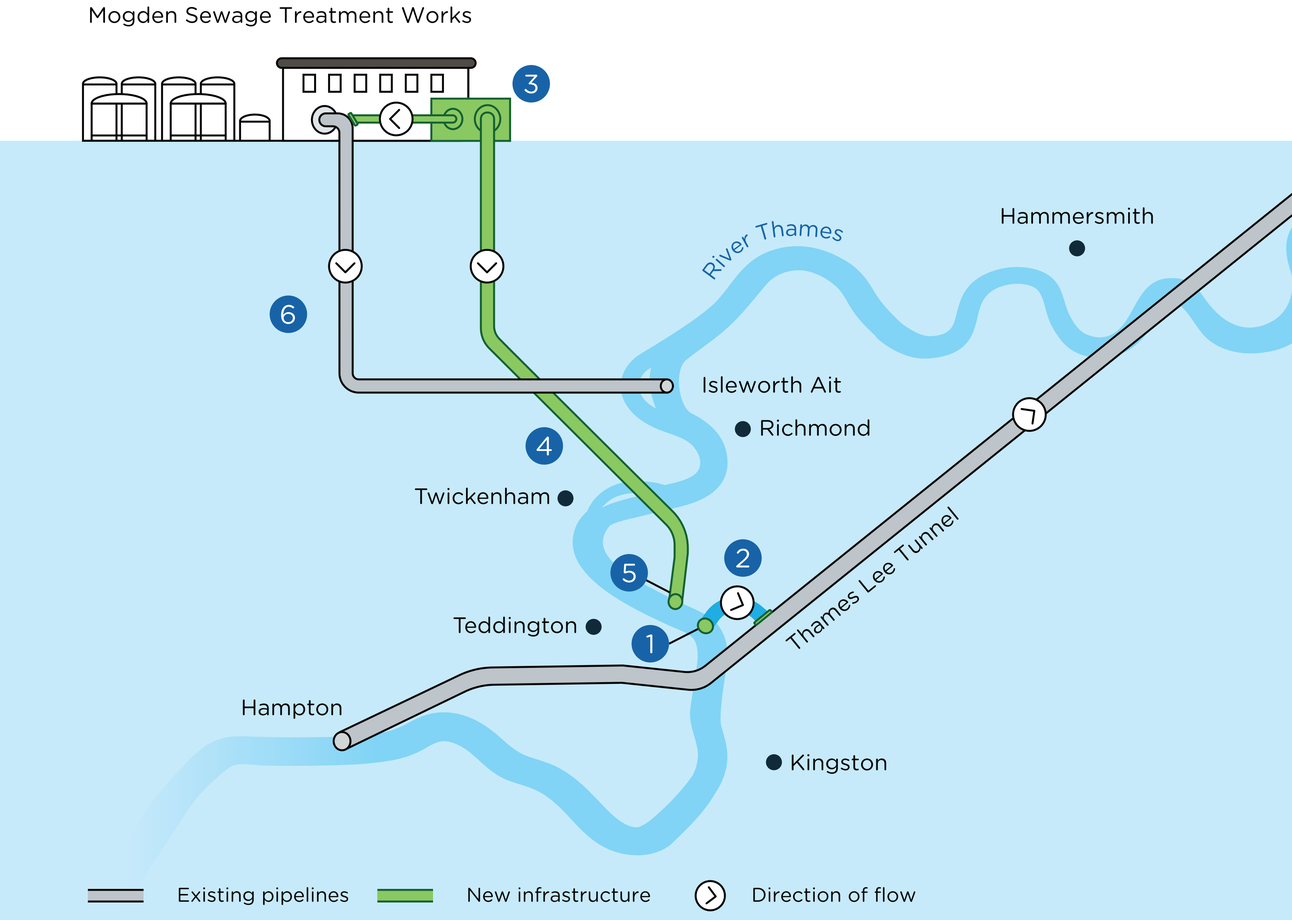
A vital drought resilience project for London

During a drought, the Teddington Direct River Abstraction project would provide up to an extra 75 million litres of water a day.

The project works in two parts: the first tops up reservoirs with water from the River Thames, while the second replaces the water taken from the river with recycled water from a new Tertiary Treatment Plant.

We'd only use the project during droughts, which we estimate will happen roughly every two years, usually between late summer and late autumn.



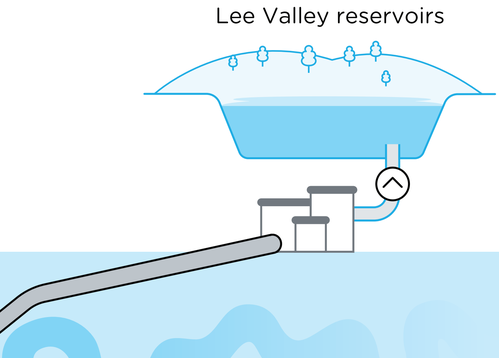
The project could provide up to...

75 million litres of water a day (75Ml/d)

Protecting our environment, economy and communities

That's enough water for around 500,000 people

It would be in use by 2033



During drought periods

Keeping our Lee Valley reservoirs topped up

A new intake 1 on the riverbank upstream of Teddington Weir would take up to 75 million litres of water per day from the River Thames and transfer it via a new pipeline 2 to the existing Thames Lee Tunnel (TLT). This would help keep our Lee Valley reservoirs topped up, providing more essential drinking water for Londoners.

Replacing river water with recycled water

A new Tertiary Treatment Plant (TTP) 3 at Mogden Sewage Treatment Works (STW) would provide an additional cleaning process for up to 75 million litres per day of water. This recycled water would be transferred to the Thames via a new tunnel 4 and released from a new outfall 5 upstream of Teddington Weir and downstream of the new intake, maintaining river levels and protecting habitats and wildlife.

Outside drought periods

The TTP would operate in standby mode and run at a much lower capacity 6 .
We'd release the "maintenance flow" of recycled water produced in standby mode into the tidal Thames via our existing outfall at Isleworth Ait.