



# LOWER THAMES CROSSING (LTC)

Permeability tests as part of the site investigation works for the Lower Thames Crossing project

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# Permeability tests in accordance with BS EN ISO 22282-2:2012

As part of a series of constant head permeability tests the drilling contractor drilled the wells open-hole to defined depth.

Constant head testing was undertaken with water pumped into the borehole. This comprised of 3no x 90 minute step tests where a steady water level was maintained in the borehole. Upon completion of each step the pumping flow rate was increased to maintain a higher steady water level. Upon completion of the final step test, pumping was stopped and the falling head 'recovery' response was observed.

Total injected water volume and inflow rate for each step was measured using 2no x propeller flowmeters. The water level within the borehole was measured manually using a dipmeter and Solinst datalogger.



## Objective

Stuart Wells undertook a series of constant head permeability tests in accordance with BS EN ISO 22282-2:2012 as part of the Lower Thames Crossing Project.



## Solution

In undertaking these tests in accordance with BS EN ISO 22282-2: 2012 Stuart Wells provided the client with accurate permeability values for each well to aid design. A full factual report was produced and submitted to the client.

<b>Services</b>	<u>Permeability Tests</u>
<b>Location</b>	Grays, Essex
<b>Industry</b>	Infrastructure