HIGH SPEED 2
GREATWORTH

In-situ borehole permeability tests in accordance with BS EN ISO 22282-2:2012 as part of ground investigation works for HS2

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Stuart Wells Limited

Geohydraulic testing in soil and rock to BS EN ISO 2282-2:2012

As part of our scope of works we undertook constant, rising and falling head tests:
Constant head testing was undertaken whereby water was pumped into the borehole. Three 90-minute step tests ensured the water level remained steady in the borehole. Increasing the pumping flow rate after each step maintained a higher water level. Once pumping was stopped the falling head 'recovery' response was observed.
Falling head testing was undertaken whereby water was pumped into the borehole until it reached the top of casing level. When pumping stopped, the head 'recovery' response was observed.
Rising head testing was undertaken whereby groundwater was pumped from the borehole. Upon secession of pumping, the groundwater 'recovery' response was observed.

Objective

Stuart Wells was employed as a subcontractor to undertake a series of in-situ borehole permeability tests in accordance with BS EN ISO 22282-2:2012 as part of ground investigation works for HS2.

Solution

Constant, rising and falling head tests were conducted with total injected and abstracted water volume and inflow rates measured using 2no x propeller flowmeters. In undertaking these tests in accordance with BS EN ISO 22282-2: 2012 we were able to provide the client with accurate permeability values for each well to aid design.

Services	Permeability Testing
Location	Greatworth, Northamptonshire
Industry	Infrastructure

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