ACE
Aquatic Control Engineering



Gores Brook & Beam River Pumping Stations

Client: Environment Agency, Interserve & Halcrow
Location: Thames Gateway

The Thames Gateway is a Central Government priority area for regeneration and growth, and stretches along the River Thames from the City of London eastwards through Thurrock and Bexley and on to Southend in Essex and Sheerness in Kent. Over the next 20 years, 120,000 new homes will be built and 180,000 new jobs will be created. The Environment Agency have constructed two large pumping stations and refurbished a tidal sluice as part of ongoing works to improve flood alleviation in the local area. These pumping stations provide a significant level of flood protection to large areas of Barking and Dagenham.

ACE has consulted closely with Halcrow and the Environment Agency to provide an alternative solution to the original specification for these pumping stations. the original concept outlined a stainless-steel flap valve solution, requiring maintenance and lifting equipment for inspections and repairs. The supply and design of six WaStop in-line non return valves were provided following our consultation, which were not only cheaper than an external style valve, but offered lower maintenance, in-pipe protection for the membrane and importantly, a greater ease of installation. The simplicity of installation incorporated into the design allowed Interserve to construct the project without the need for our installation and project management team to be present.

Three of the WaStops placed in the Beam River pumping station measuring 1400mm in diameter, were the largest WaStops to have been made at the time of the project, the three WaStops at Gores Brook are 1000mm in diameter.

ACE would like to thank, Halcrow, Interserve and the Environment Agency for this opportunity and for their professional scheme management throughout.



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