

Case study 646

Sykes provide overpumping system for sluice gate replacement

Sykes Pumps' reputation for providing a professional and reliable service has led to us supporting the Environment Agency on numerous development projects across the UK. A recent scheme in the Kent area saw us work on a critical maintenance scheme along the Upper Medway Navigation, with various upgrades required along a specific stretch of river.

The contractor who sought our assistance was responsible for modernising a series of sluice gates, replacing aged water lubrication systems with a contemporary grease-based alternative. Improvements were also made to other components in order to prolong the life of the sliding devices responsible for controlling water flow.

Most of the engineering was carried out off site and an overpumping hire solution was required between stop locks to enable the wheels to be removed and reinstalled with water at a high level. Sykes Pumps delivered a Super Wispaset 150 to the location, and this was specifically chosen because of its aptitude for pumping significant quantities of liquid – up to 90 litres per second – without excessive noise pollution. Our unit transferred water that had been retained between two stop locks, downstream into the tidal section of the River Medway.

Scaffolding was erected nearby to create a safe working environment which allowed a designated engineering team to make the necessary adjustments. Once this was in place, the pump was removed from the site to allow water to rise to its original level. At the project's completion, our equipment was then recommissioned to facilitate safe overpumping once more – until the scaffolding had been disassembled and the sluice gates reconnected.



Weight 1990 kg with fuel
1800 kg without fuel
Dimensions (mm) 2310 x 1250 x 1535
Performance Max head: 38m, Max flow:
90 l/s. Max solid: 52mm
Fuel Consumption (max) 9.8l/h
Fuel tank capacity: 175l, Max 24hrs
Pipe connections suction 6" Table D,
Discharge 6" Table D
Bauer couplings option
Noise level: @7m= 65dBA



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