



## Bedford Pumps multistage pumps scale the heights for Coppermills

Bedford Pumps, one of Europe's leading manufacturers of conventional and submersible pumps for the water and wastewater industries, has been awarded the contract to supply high lift pumps to Thames Water for its Coppermills Advanced Water Treatment Works (AWTW).

Coppermills AWTW is one of Thames Water's network of sites providing drinking water for London. The raw water is abstracted from the Lea flood relief channel and the New River and then stored in twelve reservoirs which feed the treatment works. Following treatment the potable water is pumped into supply by the high lift pumping station at Coppermills AWTW.

The existing pumps at Coppermills AWTW were installed when the station was constructed back in the 1960's. Bedford Pumps will initially supply two new high lift clean water pumps to supplement the existing old pumps. This will ensure a more reliable, high efficiency process.

Bedford Pumps will work with SMBJV, (Skanska, MWH & Balfour Beatty Joint Venture) to supply a pair of Two-Stage Suspended Mixed Flow Bowl Pumpsets which will be installed in a vertical dry well suspended arrangement in order to fit into the existing tight space with access to the motors outdoors at ground level.

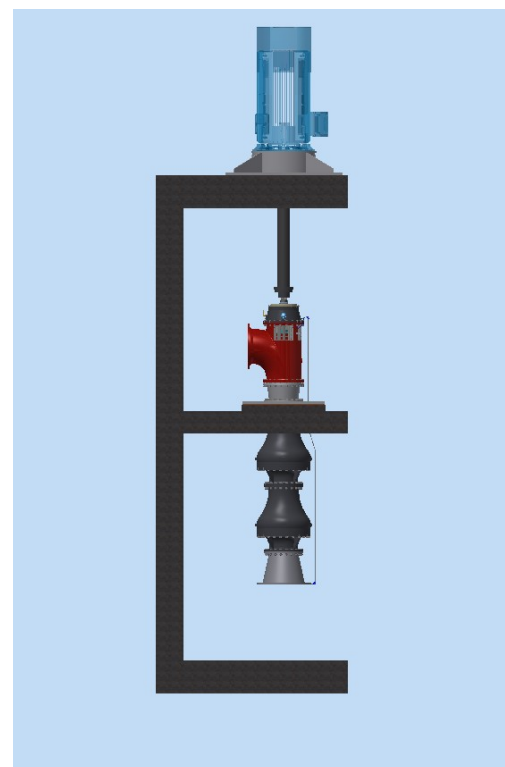
The pumps will each deliver a flow of 1,053 litres per second at 53m head via 3.3kV 800 kW variable speed motors.

This is not the first pumping solution that Bedford Pumps has delivered for the Coppermills site. In 2009 Bedford installed submersible bowl transfer pumps and a tunnel drainage pump at Coppermills WTW to facilitate a "dual pumping process" between Coppermills and the Thames Water Ring Main (TWRM). This was part of the £150M TWRM project, which involved tunnelling around London linking transfer pump shafts with water treatment works and pumping stations along the route.

Thames Water has a large existing installed base of Bedford Pumps products performing both clean water and waste water duties. Bedford Pumps is delighted to be able to assist the company in its latest venture.



*Fig 1. Existing pumps at Coppermills AWTW*



*Fig 2. Replacement pumps from Bedford Pumps Ltd*