

**ELIQUO** | HYDROK

Casestudy

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*Pile Cloth Media Filtration  
Deepham STW*



## Deephams STW

Client: Thames Water  
Via Aecom Murphy Kier Jv

Date: December 2014

Deephams STW currently boasts the largest Pile Cloth Media Disc Filter installation in the world, with 12no. SF18/90-disc filter units, offering a total ,1080m<sup>2</sup> of filter area. The plant was already equipped with 6no. micro screen units installed in 2012, however these were only rated for a small % of FFT. As part of the Deephams STW upgrade project, tertiary treatment of all flows was required.

Eliquo Hydrok were pleased to secure this contract, in place of the default extension to the micro screen installation. As a further demonstration of the operational advantages (in both costs and quality) of the Pile Cloth Media Filtration (PCMF) system, our installation takes all flows up to 4,149l/s, with the previous installation only taking surplus flows when required.

### Key Figures;

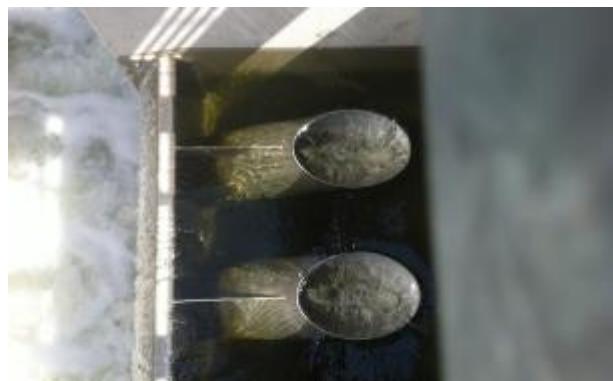
FFT:	5,422 l/s; 470,158m <sup>3</sup> /d
Flow to PCMF:	4,149 l/s; 354,586m <sup>3</sup> /d
TSS Consent:	8 mg/l
Filter Footprint:	159m <sup>2</sup>
Surface Loading Rate:	92.9m <sup>3</sup> /m <sup>2</sup> /h
Return flows:	1.8%



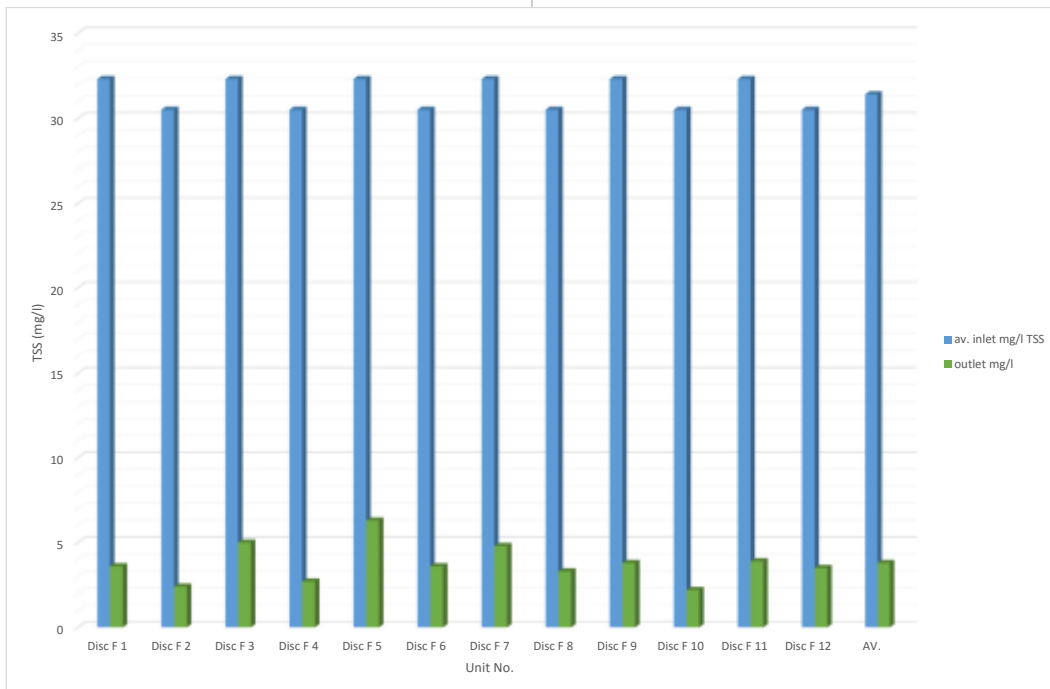
Aerial view of filter stage during construction



Influent flows



Effluent over Eliquo Hydrok organ-pipe weirs



Deephams Results: Performance trial results following forced TSS loading tests



Efficient tertiary treatment for the removal of TSS,  
phosphorus, and micro-pollutant 'priority substance'

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