



Press Release

29 June 2020

Bluewater Bio Limited
("BwB")

CiM6 and Bluewater Bio successfully install FilterClear® at Severn Trent sites
Both projects operating below regulatory permit limits for phosphorus as set by the Environment Agency

Bluewater Bio Limited, a leading provider of treatment solutions to the water industry, is pleased to announce that its high rate multi-media filtration technology, FilterClear, has been successfully installed at Severn Trent's Newent and Ledbury WWTWs to satisfy new phosphorus discharge consents that came into force on 31st March. Both projects were delivered by Severn Trent's nominated Tier 1 capital delivery partner, CiM6 (a partnership between Costain and Stantec). In both cases BwB provided a fully automated Tertiary Solids Removal (TSR) plant.



Fully automated 4v2800 FilterClear plant installed at Ledbury WWTW

Ledbury WwTW is a medium sized activated sludge works serving the market town of Ledbury, Herefordshire. The works consists of two crude oxidation ditches operating in enhanced biological phosphorus removal (EBPR) mode. To further polish the EBPR effluent, ferric sulphate dosing

was added upstream of Bluewater Bio's FilterClear model 4v2800 tertiary solids removal plant. The system is capable of treating up to 132 L/s of flow and is comfortably achieving the performance guarantee of less than 0.24 mg/L phosphorus.

Newent WWTW is a medium sized trickling filter works with a population equivalent (P.E.) of 17,500. Ferric sulphate dosing was added at the primary settlement stage and into the feed to a new FilterClear 4v2340 tertiary solids removal plant to achieve a new phosphorus limit of less than 0.64 mg/L. Now completed, the FilterClear tertiary solids removal plant is treating up to 78 L/s, with the treated flow discharging into a nearby tributary of the River Severn.

Richard Price, Framework Operations Director at Costain, commented: "Both projects successfully achieved the new regulatory permit on 31st March 2020 and have been operating below permit levels since that date. We have been impressed with the hard work, flexibility and commitment of the team at Bluewater Bio and look forward to working with BwB in the future in delivering more FilterClear schemes for Severn Trent."

FilterClear is a high-rate multimedia filtration technology, capable of treating flows ranging from 2 L/s to in excess of 1,000 L/s. Since successfully demonstrating that the technology can achieve total phosphorus concentrations of less than 0.1 mg/l in the national CIP2 trials, FilterClear has been successfully implemented at multiple sites for Severn Trent and other water companies. In most cases the consent limit is not as stringent as 0.1 mg/L, but water companies recognise the benefits of planning ahead for future tightening of phosphorus consents.

Andrew Bibby, Business Development Manager at Bluewater Bio, concluded: "At Bluewater Bio we pride ourselves on delivering quality equipment that does what it says on the tin, and backing that up with great customer service. We are delighted to have supported CiM6 to deliver these schemes on time and appreciate Richard's positive feedback. We are looking forward to delivering many more schemes for Severn Trent with Costain in AMP7."

– ENDS –

For further information or to arrange a briefing, please contact:

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About Bluewater Bio

Bluewater Bio is an award winning global specialist in technologies for cost-effective water & wastewater treatment. Headquartered in London, Bluewater Bio's range of best in class technologies have been deployed at over 100 sites globally.

Next generation proprietary technologies

With several fully commercialised technologies proven at utility scale, complemented by an active New Product Development pipeline, Bluewater Bio's capabilities now include:

- HYBACS® (enhanced activated sludge process)
- FilterClear® (high throughput multi-media filtration)
- CFIC® (second-generation moving bed bioreactor)
- GHG-Tox® (nitrification and greenhouse gas monitoring)
- NeoTech™ (highly efficient UV system)
- Operational & Maintenance services (supporting a population equivalent of c. 1 million)
- World Class R&D team, based at Cranfield University, UK

BwB's growing technology portfolio is focused primarily on the rapid upgrading, optimisation and monitoring of water and wastewater treatment plants.

The company has a particular emphasis on reducing:

- Capital, operational and compliance costs
- Energy & chemical consumption
- Physical & environmental footprint
- Greenhouse gas emissions
- Construction and commissioning times

Combining its R&D expertise with a highly entrepreneurial business approach, Bluewater Bio not only develops its own innovations but also scours adjacent markets for complementary IP, licence opportunities and partnerships.

Through this aggregation strategy, Bluewater Bio aims to be the natural choice for cost effective treatment, re-use and monitoring provision across the water, wastewater and process industries.