



AMBR MEMBRANE BIOREACTOR NEWS ***Aquabio 'Turnkey' MBR Upgrade for RHM Jam Processing Plant***

Aquabio has designed and built a turnkey membrane bioreactor plant (AMBR) at the RHM Ledbury Preserves factory. This plant further underlines Aquabio's position as UK market leader in the provision of MBR systems to the food sector.

The AMBR process replaces an overloaded aerobic activated sludge system and includes new inlet screening, stainless steel bioreactor and 23m³/hr AMBR ultrafiltration system for biomass separation. The existing activated sludge tank has been converted into an aerated balancing tank with three new JETOX aerator/mixers. The complete plant is designed to treat up to 555m³/day of wastewater at an incoming daily average COD concentration of 5,000mg/l. The system includes proprietary JETOX aeration and mixing technology in the 6.5 metre deep bioreactor, which operates at mixed liquor levels up to 15,000mg/l. The AMBR crossflow ultrafiltration biomass separation system includes two banks of membrane modules which are fully automated for flushing and cleaning.

Performance:

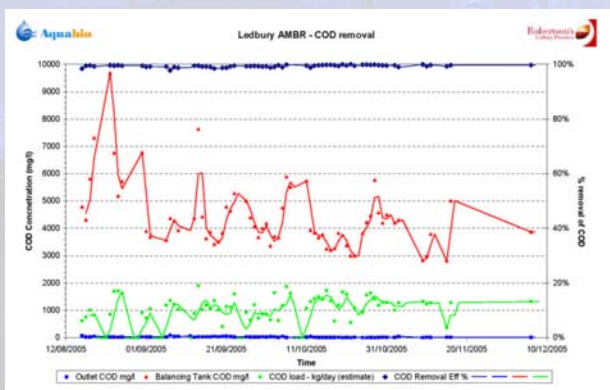
COD Reduction : >99.0%

BOD Reduction : >99.9%

TSS Reduction : >99.9%

AMBR Membrane flux range : 120 to 230 litres/m².h

Aquabio have also installed a fully integrated ASI wiring and control system through an integrated Siemens PLC and local operator interface. The control system and MCC was designed and installed by Aquabio's associated electrical specialist, Automation and Control Limited also based in Worcester.



For further information about this, and other, AMBR systems and other products and processes, please contact us at Aquabio Limited, Worcester, UK, either by e-mail or fax.

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