

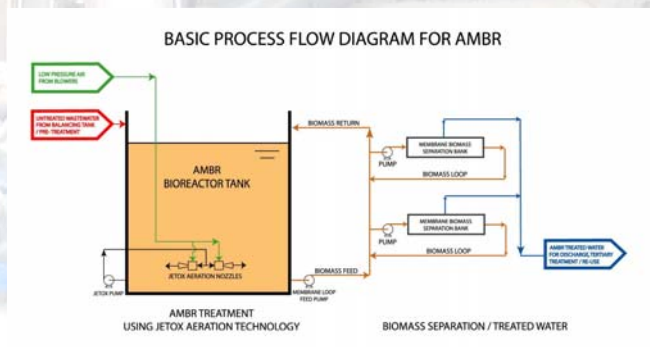


## ***AMBR MEMBRANE BIOREACTOR*** ***Aquabio Designs and Installs DAF/MBR upgrade for UK Dairy***

Aquabio has upgraded an existing wastewater treatment plant at a UK dairy by installing a new 104m<sup>3</sup>/hr high rate Dissolved Air Flotation system for pre-treatment to the existing biological secondary tank. In addition Aquabio has installed a new Aquabio AMBR crossflow ultrafiltration biomass separation system to replace the current conventional settlement. The new system also includes new inlet screening, raw effluent pumping, two 800m<sup>3</sup> aerated balancing tanks (each with JETOX aeration systems), bulk chemical storage and dosing systems and water reuse using final treated water for site washwater.



The incoming raw wastewater passes through the new pre-treatment system. After being chemically treated in the RPF pipe flocculator and the DAF system, it is divided into the existing and new biological treatment stages. The new stage includes the current activated sludge lagoon followed by the new AMBR biomass separation units. There are three banks of ultrafiltration membranes which are each designed to provide one third of the design flow to the river. The banks are fully automated and operate through the local PLC based control system and are also linked into the site SCADA. An on-line turbidity meter, and magnetic flow meter allows final permeate monitoring. Membrane flushing and cleaning is achieved using an automated flushing and CIP system.



*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.*

Tel : +44 (0) 1905 641966  
e-mail : [info@aquabio.co.uk](mailto:info@aquabio.co.uk)

Fax : +44 (0) 1905 641977  
Web : [www.aquabio.co.uk](http://www.aquabio.co.uk)