



JETOX NEWS

Aquabio uses high efficiency JETOX aeration technology to upgrade tannery wastewater treatment plant.

An existing tannery wastewater treatment plant needed an upgrade in oxygen transfer capability to increase water quality and enable nitrification within the process.

The current surface aerators were becoming unreliable with age and routine maintenance costs were high, and escalating, due to the frequency of repair, inaccessibility and weight of the units.

Two 15kW JETOX blower assisted multi-nozzle jet aeration and mixing systems (rated at SOTR of 1,000kgO₂/day each) were installed in the first reactor to upgrade 'bulk' COD reduction with a single 15kW unit in the nitrification reactor. The surface aerators were removed permanently before re-commissioning. Each of the JETOX units is provided with an air supply from local air blowers housed in acoustic enclosures. A short 'gooseneck' air main delivers the air to the JETOX™ manifolds in the bioreactor.



JETOX™ Operation

The mixed liquor from the tank is recirculated, using a dry mounted centrifugal pump, through specially designed stainless steel JETOX nozzles. The pump is installed at ground level, outside of the tank, so that it can be easily isolated for routine maintenance.

At the nozzles, air arrives from the blowers and fine bubbles are created as intimate mixing occurs with the recirculating liquid. The operating pressure of the air blower is much lower than in 'conventional' diffused air and coarse bubble aeration systems due to the entrainment 'draw down' effect at the JETOX nozzles.



For further information about this, and other, JETOX aeration and mixing systems contact us at Aquabio Limited, Worcester, UK, either by e-mail or fax.

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

*Fax : +44 (0) 1905641977
Web : www.aquabio.co.uk*