



Membrane Bioreactor:

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Membrane bioreactor' (MBR) is generally a term used to define wastewater treatment processes where a perm-selective membrane, eg microfiltration or ultrafiltration, is integrated with a biological process –specifically a suspended growth bioreactor.

MBRs differ from 'polishing' processes where the membrane is employed as a discrete tertiary treatment step with no return of the active biomass to the biological process.

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A membrane bioreactor is essentially a version of the conventional activated sludge (CAS) system. While the CAS process uses a secondary clarifier or settlement tank for solid/liquid separation, an MBR uses a membrane for this function. This provides a number of advantages relating to process control and product water quality