

OVIVO CONVENTIONAL ACTIVATED SLUDGE SYSTEMS



FOOD AND BEVERAGE

AQUACULTURE

**INDUSTRIAL WASTEWATER
TREATMENT**



INDUSTRIAL WASTEWATER TREATMENT | OVIVO CONVENTIONAL ACTIVATED SLUDGE SYSTEMS

Conventional activated sludge (CAS) systems have been used extensively for 100 years for wastewater treatment. These systems employ aeration in appropriately sized tankage or basins to allow the biological treatment of wastewaters with large amounts of biodegradable organics. CAS systems, in concert with other unit processes, transform organics in the wastewater to end products that allow for direct discharge of effluent to waterways or to local publicly owned treatment works (POTWs). CAS Systems, Carousel® Systems and Aerobic Membrane Bioreactors (MBRs) are all Activated Sludge Systems that Ovivo provides for Industrial applications, depending on the wastewater characteristics and the effluent quality required.

HOW IT WORKS

Ovivo activated sludge systems use AEROSTRIP® fine pore diffusers coupled with blowers to deliver all required oxygen to the biological basins. In the biological basins, BOD and ammonia are oxidized to meet effluent criteria. Activated sludge systems can be used where direct stream discharge is required and/or where MBBRs (moving bed bioreactors) are not capable of meeting discharge criteria.

TECHNICAL INFORMATION

- Suitable for wastewater with influent BOD (biochemical oxygen demand 500 – 10,000+ mg/L)
- Suitable for 50,000 – 5,000,000 gallons per day of wastewater, depending on influent strength.
- Effluent BOD (biochemical oxygen demand) as low as 20 mg/L, depending on influent composition
- Effluent NH₃-N Ammonia as low as 1-5 mg/L, depending on influent composition

APPLICATIONS AND MARKETS

- Wastewater treatment for
 - Meat and poultry processing industries
 - Aquaculture industry

OVIVO CONVENTIONAL ACTIVATED SLUDGE SYSTEMS

FEATURES & BENEFITS

- High efficiency fine pore diffusers provide all aeration for aerobic biological treatment
- Only strip diffuser available with long lasting stainless steel construction and a durable polyurethane membrane
- System may be easily automated with the Oculus™ System for minimal energy usage

