CASE STUDY

TRADE WASTE TREATMENT FOR BREWERY
Sequential Batch Reactor
Food & Beverage
New South Wales



BACKGROUND

An independent brewing and beverage packaging company was building a new facility that required both potable water and trade waste systems. The potable water systems were supplied as a skid mounted Brackish Water Reverse Osmosis (BWRO) package complete with a granulated activated carbon (GAC) filter to be installed in the brewery. The wastewater needed to be treated prior to discharge. MAK Water worked closely with the client to design a wastewater treatment system that is able to treat the wastewater produced that has a high solids loading and BOD from the brewing process.

SOLUTION

A 350 kL/day trade wastewater treatment plant comprising of primary drum screen and Sequential Batch Reactor (SBR) was selected as the most efficient and flexible plant design to meet the council's stringent discharge criteria.

SEQUENTIAL BATCH REACTOR - TRADE WASTE

- SBR system designed with a high degree of flexibility in terms of treating varying flows and concentrations that are usually experienced in I ndustrial applications
- Reduction of BOD, TSS and TN for discharge licence compliance
- Sludge dewatering system with screw press and conveyor for sludge handling reduces the volume of waste that would otherwise go to landfill
- Complete turnkey package including design, supply, delivery, onsite mechanical and electrical installation, commissioning and operator training

RESULTS AND BENEFITS

- Compliance. Trade waste system compliance for discharge to sewer (Sydney Water)
- Lowest total operating cost. Plants were designed to minimise operator intervention, chemical consumption and waste disposal costs
- Technical Support. Expert advice and consultation throughout the design and delivery phases. Service Agreement to provide ongoing technical support, service & maintenance
- Plant Reliability. Custom design and quality equipment will provide reliable operation with minimal maintenance.



Internal view of Sequential Batch Reactor (SBR)

