CASE STUDY

PROJECT WWTP TANK REPLACEMENT FOR DETENTION CENTRE
PRODUCT SBR – Sequential Batch Reactor
INDUSTRY Infrastructure
LOCATION Northam, Western Australia

BACKGROUND

A long-term service client reached out to MAK Water to conduct a review on the condition of their steel reaction tanks on site. During the review it was noticed that corrosion forming on the external panels of the tanks was causing a safety hazard and replacement was necessary.

MAK Water was selected to design, manufacture and install 3 x 240KL Steel rubber lined tanks on a live site where wastewater services had to remain operational.

Our service team worked closely with the client to implement a strategic waste removal plan while the plant was offline during demolition and construction of the new tanks.

SOLUTION

Demolition and construction of new tanks on site.

Tanks Under construction

MAK WATER KEY SOLUTIONS

- Fast turnaround, shut down to start up in three weeks
- Increased reliability of infrastructure
- Rebuild of external and internal components
- Custom decant lines manufactured and installed
- Better suited liners for wastewater application
- 12-hour hydrostatic test on each tank
- Onsite plant commissioning and operator training
- Ongoing service and maintenance contract

RESULTS AND BENEFITS

- **Compliance -** Achieves better effluent quality with renewed decanting and sludge removal.
- **Technical Support -** Expert advice and consultation with all parties throughout the process and ongoing plant service and maintenance by MAK Water
- **Safe working environment -** Removed hazardous corroding tanks and replaced with ones that meet Australian standards
- **Fast Delivery -** Despite delays, the manufacturing process was fast tracked to achieve the required project timeline
- **Increased optimisation and reliability -** New tanks help ensure that the plant stays online..

External view of completed tank ready for hydro testing