

CASE STUDY



PROJECT POTABLE WATER FOR IRON ORE MINE
PRODUCT Brackish Water Reverse Osmosis (BWRO)
INDUSTRY Mining
LOCATION Pilbara, Western Australia

BACKGROUND

A global facilities management company in charge of running Rio Tinto's Pilbara iron ore camps, needed to quickly replace the existing potable water treatment plant at Mesa A village.

MAK Water is a Rio Tinto Approved Contractor and with its local service office nearby in Karratha was the obvious first choice to design and construct the new plant.

MAK Water was able to meet all of the client's strict requirements around RO recovery rate, plant footprint, delivery schedule, and provision of a complete installation package.

SOLUTION

The containerised Brackish Water Reverse Osmosis (BWRO) plant to produce 360 m³/day of potable water incorporated:

- Containerised (1 x 40') with insulation and air conditioning
- Dual potable water production trains (2 x 100%)
- Chlorine dosing, potable water tank recirculation and monitoring
- Compliance with Rio Tinto specifications
- Premium instrumentation package with ClearAccess™ Remote Monitoring and Control
- Complete installation package including delivery, onsite mechanical and electrical installation, commissioning and operator training
- Ongoing service agreement with technical support and scheduled site visits by a MAK Service Technician



Containerised Brackish Water Reverse Osmosis plant installed onsite

RESULTS AND BENEFITS

- **Safe, Potable Water.** Compliance with Australian Drinking Water Guidelines (ADWG).
- **Plant Reliability.** Custom design and quality equipment will provide reliable operation with minimal maintenance.
- **Delivery.** New plant supplied and installed to schedule.
- **Local Support.** Perth head office and local service office in Karratha.
- **Project Compliance.** MAK Water met all project requirements and specifications.



BWRO plant during FAT at MAK Water's Perth manufacturing facility