

CASE STUDY



PROJECT POTABLE AND CONSTRUCTION WATER FOR GAS PROJECT

PRODUCT Brackish Water Reverse Osmosis
INDUSTRY Oil and Gas
LOCATION North West Shelf, Western Australia

BACKGROUND

BHP Petroleum needed to secure their supply of potable and construction water. With no access to surface water and isolated from government supplied potable water, desalination was the best solution.

MAK Water worked closely with BHP Petroleum, their engineer, and the installation contractor, from concept to commissioning, providing the technical expertise to develop a turnkey solution to meet the project's water treatment requirements.

SOLUTION

MAK Water supplied a turnkey, Brackish Water Reverse Osmosis (BWRO) desalination plant, including:

REMOTE MONITORING

- Fully automated water treatment plant with remote monitoring and control

TURNKEY SOLUTION

- Design, manufacturing, power supply site installation, commissioning, and service and maintenance.
- Balance of plant including water tanks and diesel generator

OPERATIONAL SUPPORT

- Service and maintenance to ensure system reliability and peak performance, and maximisation of water quality to increase the life of the system.
- All technical support for maximum operational performance.

RESULTS AND BENEFITS

- **Consultative design process.** The client engaged MAK Water from the outset to ensure the project requirements were met and the client, engineering team, and installation contractor were across the process.
- **Client Specific Standards.** MAK Water built the plant in accordance with stringent site-specific oil and gas design requirements.



Brackish Water Reverse Osmosis plant on site



MAK Water provided all site installation works and commissioning as part of the turnkey solution provided to BHP Petroleum