CASE STUDY

PROJECT MINE AND CAMP WATER AND WASTEWATER OPERATIONS
PRODUCT Water and wastewater operation
INDUSTRY Mining
LOCATION Queensland

BACKGROUND

A coal mine required reliable potable water and wastewater services to support its camp and wider mine operations. This included operation of the camp membrane bioreactor (MBR) wastewater treatment plant and the potable water treatment plant incorporating a lamella clarifier (LC).

SOLUTION

MAK Water operates and maintains the camp MBR wastewater treatment plant and LC potable water plant. Potable water is delivered across the site by dedicated truck drivers, supported by planned sampling, field testing and water-quality record keeping.

Sewage is collected throughout the mine and transported safely back to the MBR wastewater treatment plant for controlled processing through the treatment system. Three operators support the client, two provide back-to-back coverage, while the third operator overlaps to strengthen operational continuity and site support.

MAK WATER KEY SOLUTIONS

- Routine potable water sampling, testing, monitoring and record keeping across the treatment and delivery network.
- Back-to-back truck-driver coverage supporting dependable potable and wastewater logistics across the mine.
- Preventive and corrective maintenance focused on treatment performance, plant reliability and uninterrupted service.



Membrane Bioreactor (MBR) wastewater treatment plant

RESULTS AND BENEFITS

- **Operational efficiency.** Integrated water and wastewater service for the camp and wider mine, covering treatment, transport, collection, sampling and testing.
- **Compliance.** Water-quality and environmental obligations through consistent treatment, monitoring, sampling and operational records.
- **Reduced operational risk.** Continuous site coverage, monitoring and timely response.
- **Coordination.** Returning collected sewage to the MBR plant for treatment within the managed site system
- **Long-term service partnership.** Practical on-site partner focused on safe delivery, reliable plant performance and sustainable water management.
- **Reliable operations.** Continuous roster coverage, operator overlap and dedicated truck-driver support.



Membrane Bioreactor (MBR) wastewater treatment plant