

## Oaky Creek Coal Mine

### OUR CLIENT



- Opened in 1983, it's one of the country's highest producing coal mines



- Located in Central Queensland, Australia



**11 million** tons  
- the mine's annual production capacity

**288 million**  
tons of coking coal reserves. One of the biggest in the world

### THE CHALLENGE



Multiple feed streams with high salts and variable quality due to seasonal changes

Maintain process robustness in an ageing plant where operational flexibility is critical

### THE ASK

To provide full operations of the mine's water treatment plant, consisting of ultrafiltration (UF), reverse osmosis (RO) and remineralisation.

Due to the critical nature of the facility, PROXA has been assigned responsibility for the full preventative maintenance on the infrastructure which includes a suite of process pumps, instrumentation, tanks, and ancillary equipment, such as chemical dosing systems.



- Feed water: multiple ponds onsite
- 7.7 MLD ex mine dewatering

### THE OVERVIEW

The mine uses discharged treated water:

- As process water supply on-site for coal washing
- For underground drilling activities
- to safely discharge into the environment in a sustainable manner



### HOW PROXA ADDED VALUE

With a highly variable and dynamic raw water sources, PROXA worked alongside the client to provide ongoing process support to ensure optimal performance and identify areas of improvement.

We closely followed preventative maintenance strategies to ensure plant uptime and exceed Key Performance Indicators.

By utilising PROXA's Q-TRAK technology, the plant is able to be remotely controlled and monitored after hours. This mitigates the reliance of having on site operators - providing significant ongoing cost savings.



## THE OUTCOME

- ✓ PROXA utilise our proprietary Q-Trak® remote monitoring systems (24hr a day, 7 days a week) and operators to monitor the plant
- ✓ PROXA continually ensure that the quality of the water being discharged to the river is fully compliant with environmental regulations
- ✓ Over 5,500 maintenance work orders are fulfilled over the course of a calendar year, ensuring maximum plant reliability and availability
- ✓ PROXA remain flexible and always cost-sensitive. In periods of downtime due to seasonal effects, PROXA reduce the hours spent on site so resources are not wasted
- ✓ Critical KPIs are continually met, despite the challenges associated with the variable feed water



“In 2018, PROXA was awarded the contract to provide Operations & Maintenance services for 2 years with an option to extend for an additional year. The client extended the additional year and in 2021 extended our contract for a further 2 years, based on our technical prowess in approaching their water cycle in a holistic way and giving guidance on matters that will ensure low cost of production.”

- Richard Lynn, Managing Director, PROXA Australia.

Contact us to learn how we can promote water security for your company.

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