

# Eungella Dam to Moranbah

## Pipeline through environmentally sensitive National Park



The development of Queensland's coalfields called for the transfer of water across one of Queensland's largest National Parks, containing hundreds of kilometres of isolated bushland. Queensland's State Government therefore needed to provide the large-scale infrastructure required, whilst minimising impact on the local sensitive environment.

### The Solution

Tyco Water - Steel Pipeline Systems worked closely with the State Government and The Eungella Water Pipeline Company, who jointly managed the entire project, from feasibility studies to design and installation.

The final outcome was Tyco Water supplying 124km of 711mm diameter SINTAJOINT® rubber ring joint pipe, along with a full range of associated steel fittings. The pipeline started from an inlet pontoon on Eungella Dam, 100km west of Mackay. The first 10km of the pipeline route followed a twisted path through tropical vegetation, rugged terrain and hillside gorges, posing many challenges for the pipeline designer and project contractor.



### The Product

Eungella National Park boasts one of only a few locations in Australia where the Platypus can be easily viewed in their natural environment. Tyco Water's SINTAJOINT pipe reduced the amount of excavation required and kept the time that noisy machinery was needed on site to a minimum.

### The Result

Despite interference from a very active Queensland cyclone season, the contract was completed within the agreed time and with minimum disruption to the protected environment around Eungella.

On such a large-scale project, working with Tyco Water guarantees the technical support and flexible logistics required - just as much in remote outback areas as in the major cities of Australia.

Utilising three different pipe wall thicknesses along the pipeline also reduced installation time and costs, by designing the most appropriate wall thickness for the ground conditions and operating pressures. The most economical design was found to require 5, 6 and 8mm wall thickness.