

Kwinana Desalination Connection

An Australian First



As Western Australia braced their worst two-year drought on record, the local community were becoming extremely concerned over the states dwindling water supplies. In response the West Australian Water Corporation produced Australia's first operational desalination plant. Located in Kwinana, some 25km's south of Perth, this \$387 million dollar desalination plant supplies 17% of all Perth's water.

The Solution

The West Australian Water Corporation called on a joint venture between contractors Multiplex and Degrémont, to build and operate a desalination plant for the next 25 years. Naturally Tyco Water was called upon to assist with the \$30 Million pipeline connection. Tyco Water provided the pipelines required to connect the Desalination plant to the Thomson reservoir and to connect the reservoir to the Integrated Water Supply Scheme.

The Product

Tyco Water was honoured to be supplying the first operational desalination plant in Australia and as a result far exceeded expectations when supplying the required Mild Steel Cement Lined, SINTAKOTE® DN1400 & DN1200 pipelines. Tyco Water also supplied the DN 200 Ductile Iron pipe and fittings for the fire service ring main at the Desalination Plant Site. All of Tyco Water's products were supplied with the sort of quality and reliability that helps to enable breakthrough project such as the Kwinana Desalination plant to become such a resounding success.



The Result

Western Australia becomes the first state in Australia to employ desalination as a major public water source. The new plant currently has a capacity of 140,000m³/day with designed expansion to 250,000m³/day. This makes Kwinana the biggest plant in the world to be powered by renewable energy. With committed contractors and reliable suppliers such as Tyco Water, Western Australia's water supply now looks to be secure.