

Achieving and securing future water needs



TRILITY, as part of the Helena Water consortium, financed, designed, constructed, commissioned and through a Joint Venture (JV) now operate the 165 ML/d Mundaring Water Treatment Plant (WTP) and Mundaring Pump Station C in Western Australia.



The Mundaring Water Treatment Project (WTP) is a major source of water for more than 100,000* rural and town services that comprise the Goldfields and Agricultural Water Supply Scheme. This is a critical asset designed to manage the challenge of treating water from three different sources.

The project, including a major treatment plant, pump station and integration works reached practical completion and commenced operations in December 2013.

The plant and associated facilities have been built for the future – it will secure a safe and high quality water supply for regional Western Australia. Long-term, forward thinking has been key to this project, with a focus on developing a whole-of-life solution throughout the operating contract.

The project is the Water Corporation's first Public Private Partnership (PPP), and was awarded to Helena Water in July 2011, with an October 2011 commencement date on site, and practical completion achieved in late 2013.

The project comprises a 165 ML/d (expandable to 240 ML/d) WTP, pump station and complex integration works. The WTP uses Dissolved Air Flotation Filtration (DAFF) and Bacteriologically Activated Carbon (BAC).

TRILITY was a leading and integral part of the team during the D&C phase and as part of the 35-year Operations and Maintenance (O&M) term provides the Operations Manager and key support services such as IT, SAP (finance) and asset management.



*Figures provided by the Water Corporation

Who

The project sponsor is the Water Corporation of Western Australia. Helena Water will contract with the sponsor and finance, operate, maintain and expand the plant over a period of 35 years.

What

A 165 ML/d (expandable to 240 ML/d) WTP, pumping station and complex integration works.

Where

The project was constructed on two sites close to the township of Mundaring located approximately 45 minutes by car from Perth CBD.

Why

To provide the Goldfields and agricultural regions of Western Australia with an improved water quality supply and meet the needs of future domestic and industrial growth.

Awards

2014 Civil Contractors Federation (CCF) Earth Awards Excellence in Civil Construction category for a project with a capital value greater than \$75 million
2012 Infrastructure Partnerships Australia (IPA), Government Partnership National Infrastructure Excellence Award
2012 Global Water Intelligence (GWI), Water Deal of the Year
2011 Project Finance Magazine, Asia-Pacific Water Deal of the Year

Snapshot

Client	Water Corporation
Type of Contract	Public Private Partnership (PPP)
Facilities	Water treatment plant, pumping station and integration works
Technology	Solid/liquid separation through Dissolved Air Flotation Filtration and organics removal through Biologically Activated Carbon
Design Capacity	165 ML/d expandable to 240 ML/d
Term	37 years*
Capital Cost	Less than c. \$300m

*Represents the entire contract Design and Construct and Operations