

OBJECTIVES

Increased drought security and the ability to meet water supply security service levels

Less reliance on the Manning River and greater ability to maintain environmental flows

Diversification of risk between two independent sources of water for the Manning Water Scheme

Future opportunities for managing sustainable growth within the Manning Water supply

Lower operating costs by reduced need for pumping from Bootawa to Forster

BACKGROUND

The Manning District Water Supply Scheme is MidCoast Council's largest water supply scheme, supplying water from the Manning River and Bootawa Water Treatment Plant.

The Manning water scheme services a permanent population of approximately 70,000 and up to 100,000 during peak holiday periods.

The purpose of the Nabiac Dune Aquifer Water Scheme is to provide a supplement supply to the Manning Scheme.

The Nabiac Scheme started in 2004 with environmental studies and water modelling.

The design and procurement of the process equipment commenced in 2008 - 2009.

Construction commenced in 2010.

CAPACITY OF NABIAC SCHEME

The treatment plant operates at 138 litres per second (between 6 to 10 million litres per day).

Treatment process meets Australian Drinking Water Guidelines on:

- iron removal,
- hydrogen sulphide and carbon dioxide removal,
- disinfection and fluoridation, and
- production of a similar water quality to the Bootawa Water Treatment Plant supply.

The overall design, including raw water quality and treatment process, is very similar to Tea Gardens Water Treatment Plant.



Top: treatment building.
Below: aeration tower and pre-treatment tank.



Below: treated water reservoir.



The Nabiac Scheme is designed for 12 millions litres per day, with option to upgrade to 24 million litres per day to meet future needs