

Christies Beach Upgrade Project C08



Location:

Christies Beach, South Australia

Client:

SA Water

Commencement Date:

January 2010

Completion Date:

May 2011

Contract Value:

\$23 million

BMD Constructions delivered complex earthworks, services installations, and major water retaining concrete structures which were overlaid with highly specified industrial buildings.

Overview

The Christies Beach Waste Water Treatment Plant (WWTP) C08 contract marks the third project BMD Constructions has undertaken for SA Water as part of their major plant upgrade. Previous contracts included the C01 (early works) and C04 (outfall pipe). C08 can be described as highly technical, involving nuanced engineering controls and rigid specification at every step.

Project Scope

The C08 contract chiefly involved construction of newly activated sludge, membrane, and UV disinfection concrete tanks. Combined, these structures constitute the C Plant, which effectively doubles the capacity of the existing WWTP. Also essential to the project was the construction of roadworks along the perimeter of the site. BMD Constructions supplied a myriad of services supporting water reticulation and process pipework, including installation of up to 900mm diameter fibre reinforced pipes.

The project landscaping package incorporated re-vegetation to aid in balancing the local ecosystem, as well as the creation of a pleasant coastal walking path for the continued enjoyment of the local community. The works comprised extensive sand dune rehabilitation following the obligatory deconstruction of dunes during the C04 (outfall pipe) phase of the project.

Outcomes

Stabilisation of sand dunes along the stunning Christies Beach coastline.

Expansion of the Christies Beach Waste Water Treatment Plant to double capacity.

260,000 hours worked with an excellent safety record.