

Mentone Beach Outlet Removal & Re-Construction

Date

April 2010 to April 2011

Location

Beach Road, Mentone Project

Project Value

\$2.9 million

Project Details

This project replaced a dilapidated and unsightly 1350mm concrete outlet on Mentone foreshore with a new 2100 x 750 box-culvert, including rockwork to improve the new structures aesthetics on the beach. A second council beach outlet (Mundy Street) was diverted and connected to this new box-culvert. Two additional council beach outlets at Charman Road & Sea Parade, which required the use of tunneling under areas of sensitive vegetation on the foreshore, were also connected to the new box-culvert.

A Gross Pollutant Trap (GPT) to treat storm water, and an existing 16-meter drop structure was modified and re-lined to handle the new capacity, were both part of this scope of work.

In summary: the project turned four unsightly & unsafe beach outlets into one that blends into its surrounding environment and treats storm water flows prior to entering Port Philip Bay.

Quality & Design

The Team utilised its expertise from previous marine projects, and supply partners that were familiar with requirements to reduce design and construction times required for this project.

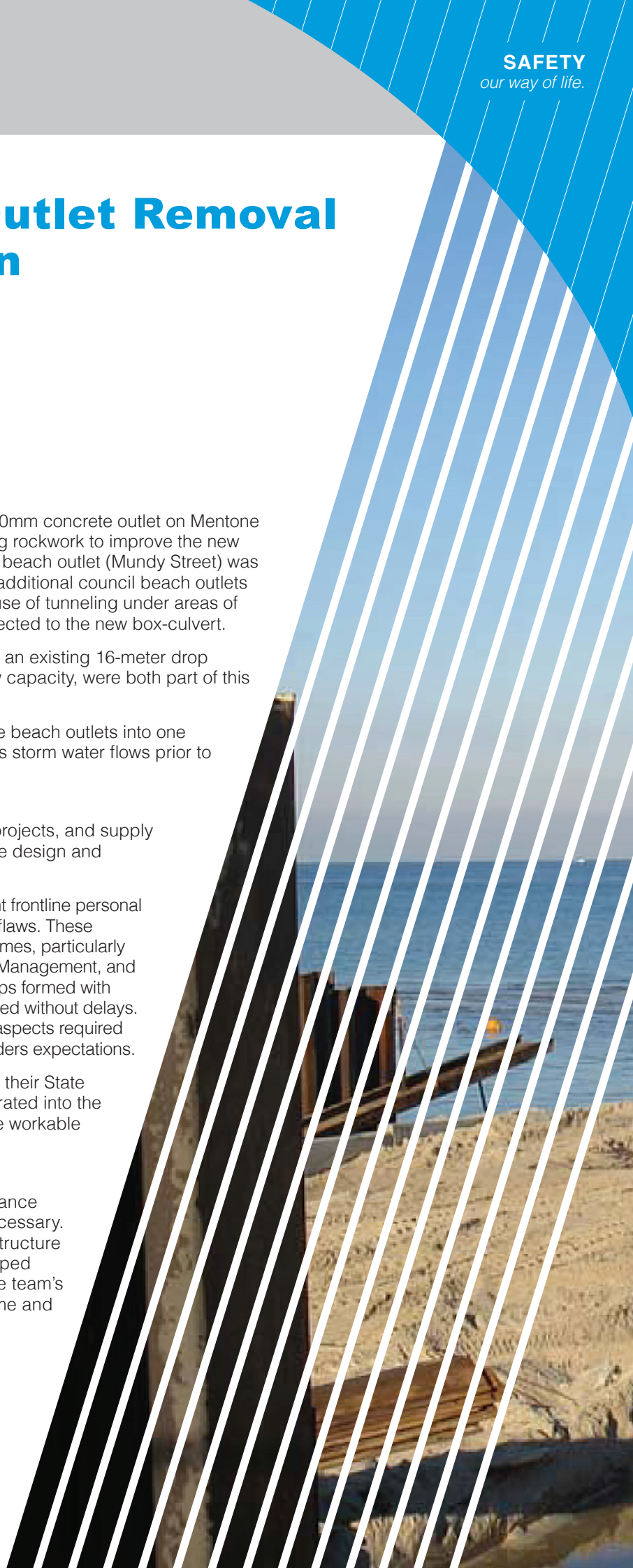
Our expertise also assisted Council. Design flaws meant frontline personal worked with the client to redesign and overcome these flaws. These approaches directly lead to efficiencies in turn around times, particularly for additional approval requirements from DSE Coastal Management, and in-turn project costs for the client. The strong relationships formed with Council ensured interfacing was seamless and completed without delays. The project met all functional requirements and quality aspects required by the Client, with reinstatement exceeding all stakeholders expectations.

Initiated by a local councilor and residents contacting their State Members regarding water quality, a GPT was incorporated into the design. This demonstrates our teams ability to provide workable solutions at all stages of the project cycle.

Project Planning & Design

Our involvement gave practical assistance and guidance where a re-draft of detailed design drawings was necessary. JAYDO's solutions to providing support to the drop structure via the use of a MSCL pipe and grouting was developed based on procurement and costs and highlighted the team's ability to produce workable solutions to meet tight time and cost constraints.

The Project was completed on time and to budget.



Stakeholder Management

Transparency of the project and its progress due to a public pedestrian path beside the worksite gave the public opportunity to witness the time and skill required for rockwork as well as effects during inclement weather. This led to an appreciation of the effort required to complete these types of works, and fostered patience and understanding from the public during construction. It was rewarding to construction personnel who were complemented for their efforts by people simply passing by.

Environmental Management

Due to the difficult and narrow site entrance and works on the beach, procedures were developed to strictly control access and manage deliveries. This approach resulted in a safer worker environment, with no damaged property or the need for environmental rectification works.

Lessons Learned & Earned Value

The Team temporarily relocating the outlet to enable efficient construction, and then replacing in its original location reduced overall project cost significantly. We again exceeded the client's expectations and delivered all functional requirements including the late inclusion of a GPT to enhance water quality going into Port Philip Bay.



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