

Royal Melbourne Golf Club

One million litre StormTrap® system

Case study



A departure from tradition for the Royal Melbourne Golf Club

The recent installation of the one million litre StormTrap® detention and reuse system marked a new era for the Royal Melbourne Golf Course stormwater management program. With the prospect of ongoing water shortages, increasing maintenance costs, and growing environmental responsibilities, the club engaged consultants to develop a long term strategy for the effective management of the stormwater run-off that passed through the course.

The grounds provided for the collection of vast amounts of stormwater run-off; however, the subsequent redistribution of water flows and storage presented some challenges. This is where the consultants suggested an innovative approach with a detention and reuse system that had proven successful in North America, and was a new release on the Australian market.

The consultant developed an innovative design to gravity-feed stormwater from an existing main into a one million litre StormTrap® detention system for temporary storage. Controlled flows are then pumped via a 1.5 km pipeline into an existing lagoon where it is mixed with bore water before being transferred (and treated) to a 2 million litre holding dam ready for irrigating the course.

The StormTrap® system presented the consultant with a number of design and installation benefits, to provide greater flexibility and outcomes for their client. The unobstructed, open void spaces of the modules delivered maximum detention volumes in a given footprint, which ultimately minimised the footprint size on the course. The system also included access openings to provide a fully accessible and maintainable system. And with its fast and simple installation process, the one million litre modular system was installed in only five days.

130 precast concrete StormTrap® pieces (2,100 mm high) now sit below the surface of the 7th hole on the East course, providing an efficient and discrete storage facility for the club's stormwater resources.

Project

Royal Melbourne Golf Club

Client

Maunsell AECOM

Product supplied

One million litre StormTrap® system



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