



LOCATION

Mile End South, South
Australia

CLIENT

Hansen Yuncken

DETAILS

New Build

FEATURES

Hot & Cold Recovery Pools
156 Spa Jets
Waterco Sand Filters
ProMinent Dosing Equipment
Fully Tiled
Accessible Entry Pool Hoist

South Australian Sports Institute | SASI

A state-of-the-art aquatic recovery environment supporting elite level athlete rehabilitation, recovery, and rest, right here in South Australia.

The aquatic facilities at SASI's new home were specifically designed to support elite athlete recovery and rehabilitation within a high-performance sports science environment. Hydrilla delivered two purpose-built recovery pools — a hot recovery pool and a cold plunge pool — each measuring 8m x 2.4m, with the hot pool a constant depth of 1.2m and the cold pool ranging from 1.4m to 1.8m depth. This configuration allows athletes and sports scientists to utilise contrast therapy and immersion recovery protocols that are widely used in elite sport.

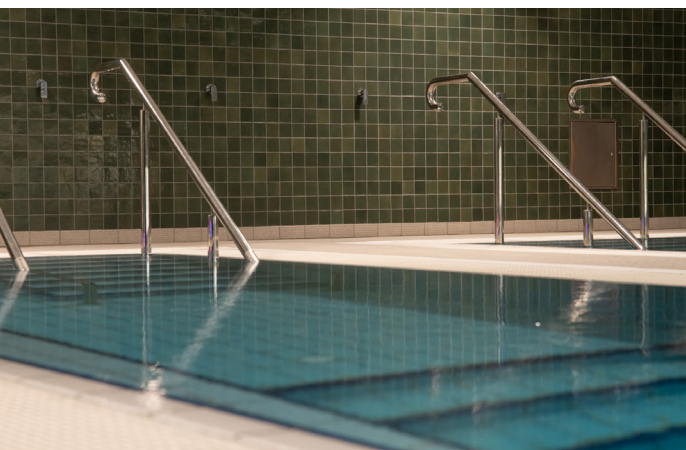
The pools were engineered with advanced hydraulic systems, automated water quality management and integrated heating and cooling systems to maintain precise temperature and water quality conditions required for recovery therapy. The installation included reinforced concrete pool structures, filtration systems, chemical dosing, automated level control, and a bespoke Pool Management System with remote monitoring capability.

The result is a highly specialised aquatic recovery facility valued at \$1.5 million, designed to support the health, performance, and rehabilitation of South Australia's elite athletes.

HANSEN YUNCKEN



HYDRILLA



SOUTH AUSTRALIAN SPORTS INSTITUTE | SASI

The SASI pools incorporate several complex design elements to support their specialised use for athlete recovery.

The hydraulic systems were engineered to maintain precise water circulation and turnover rates while supporting two pools with significantly different operating temperatures. The integration of heating and cooling infrastructure required careful hydraulic and mechanical design. Additionally, the hot recovery pool includes 156 jets, which when functioning at their full potential had the ability to empty part of the pool in minutes and blow tiles off the wall surfaces if not correctly engineered. To guarantee the integrity of the pool, Hydrilla redesigned the walls to be thicker and due to the congestion of pipework and reinforcing behind the jets, employed a free-flowing concrete (shotcrete) compared to typical slump concrete mix. This was to ensure it would adequately fill all cavities, providing maximum stability in the pool shell. This type of concrete mix has not been implemented by Hydrilla previously but was an excellent solution coordinated in part with the aquatic engineers.

The plantroom layout required detailed coordination of pumps, filters, control systems and electrical infrastructure within a very compact space, ensuring all systems could be maintained and operated efficiently.

A combination of careful engineering, precise coordination of trades, and structured project management resulted in the successful delivery of a unique aquatic recovery environment.

We are supporting the next generation through major investment in quality infrastructure

Minister for Recreation,
Sport & Racing
Emily Bourke



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