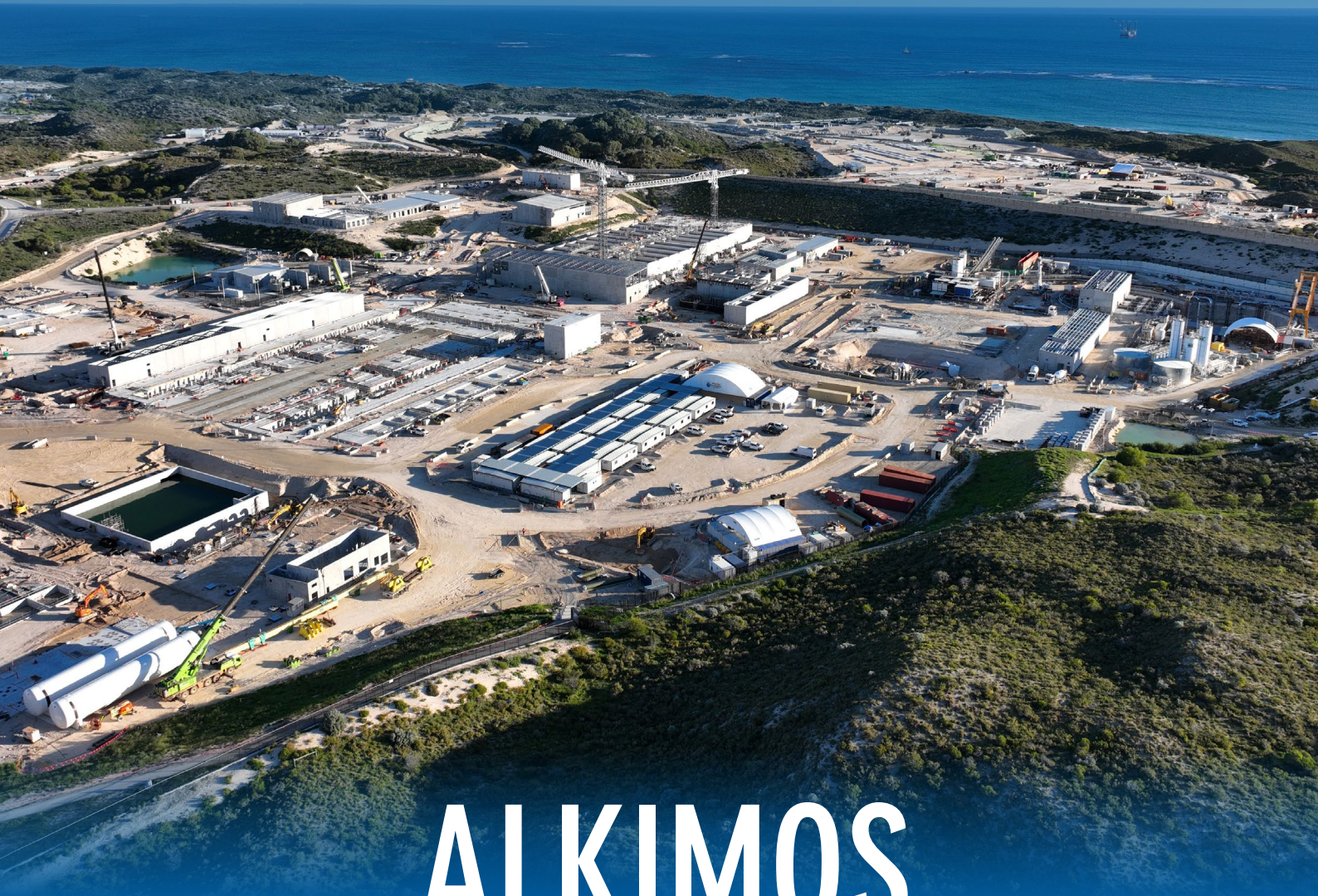




ALKIMOS DESALINATION PLANT

AWMA water control infrastructure is now en-route to the Alkimos Seawater Desalination Plant, a landmark project that will become Western Australia's third major desalination facility and the fifth Australian desalination plant supported by AWMA's water control solutions.

Drawing on experience gained from Australia's largest desalination projects, AWMA is supplying more than 50 penstocks and stoplog systems for critical flow control, isolation and maintenance applications throughout the facility.

Manufactured from Grade 2507 Super Duplex Stainless Steel, AWMA's water control equipment is engineered to deliver exceptional corrosion resistance, durability and long-term reliability in demanding seawater environments.

[Read more about AWMA's role in the Alkimos Seawater Desalination Plant on our website.](#)

GENERALLY SPEAKING

At AWMA, our in-house teams design and manufacture high-quality water control solutions that meet and often exceed, project specifications.

A key part of that commitment is our investment in industry-leading testing facilities, giving both AWMA and our clients confidence in product performance, before installation.

Whether it is a water control gate, flood barrier or inlet screen, we have in-house resources to verify performance, functionality and compliance, prior to dispatch.

Continuous improvement and product development remain central to AWMA's success. Many of our innovative solutions are developed in response to complex project requirements. Rigorous testing helps ensure custom-designed solutions deliver the performance, reliability and quality our clients expect.

Projects require various levels of testing. AWMA's in-house capabilities range from functional dry testing, through to factory acceptance testing (FAT) and hydrostatic testing, all undertaken within our dedicated 60m² Testing Bay.

During hydrostatic testing, water pressure is applied to validate compliance with design requirements and performance specifications. AWMA's hydrostatic testing capacity extends up to 50 metres of off-seating head pressure, whilst factory acceptance testing can be conducted on gates as large as 4m x 4m.

To further strengthen our testing capabilities, we developed FlowLab, a purpose-built dynamic open-flume testing facility. Operating continuously at flows of up to 100 megalitres per day, FlowLab enables highly accurate performance testing and volumetric flow measurement to within 2% accuracy. The facility plays an important role in validating product performance, supporting innovation and providing valuable data for product development. The FlowLab facility is also utilised by a range of organisations, water authorities and government bodies, for independent testing and performance validation.

We regularly host clients during in-house testing programs and welcome the opportunity to demonstrate products operating under simulated installed conditions.

AWMA's continued investment in testing infrastructure reflects our commitment to quality, innovation and performance. Combined with the expertise of our team and rigorous quality processes, these capabilities help ensure our products are delivered to specification and meet the high standards our clients expect.



FLOODFREE LEVEE SOLUTION

The Buloke Shire Council is better prepared to protect the Donald community against future flood events following the completion of a second FloodFree Demountable Flood Barrier system along Camp Street.

The new installation completes Donald's dual-barrier flood protection strategy, working alongside the existing FloodFree infrastructure on the opposite side of the Richardson River to create a comprehensive flood mitigation system for the township. Designed to safeguard the township from riverine floods, the custom-engineered barrier provides protection against a 1% Annual Exceedance Probability (AEP) flood event.

Spanning 22 metres in length and 2.4 metres in height, the barrier is manually deployed on demand, when flood threats arise, helping to reduce response times and minimise pressure on Council and emergency service resources. The system features bolt-down centre posts with props, enabling the barrier to withstand up to 60 tonnes of water pressure while maintaining its structural

integrity during significant flood events. Built as a durable, reusable solution, the barrier combines permanent foundations with demountable components that can be installed quickly when needed.

Only weeks after installation, FloodFree barrier systems on both sides of the Richardson River were deployed during a riverine flood event. Council staff installed the barriers quickly and efficiently, closing critical gaps in Donald's levee network and helping protect the community from flood impacts. The successful deployment demonstrated both the effectiveness of the FloodFree system and the preparedness of Council teams, reinforcing Donald's ability to respond rapidly and confidently to future flood threats.



MODERN SCREENS SHOWCASED AT AUSTRALIAN COTTON CONFERENCE

AWMA's Screen Team recently participated in the Australian Cotton Conference, sharing insights on how modern fish screen technology supports both efficient irrigation and the protection of native fish populations.

Invited by the Department of Primary Industries and Regional Development (DPIRD), the team connected with growers, water authorities, researchers and industry stakeholders to discuss practical approaches to sustainable water management.

The conference provided a valuable forum for knowledge sharing and industry collaboration, reinforcing the importance of balancing agricultural productivity with the protection of Australia's aquatic ecosystems.



Brett Kelly
Managing Director

awma
Water Control Solutions



DAM PENSTOCKS FOR NZ RESERVOIR

AWMA supplied two critical penstocks for the Otawere Reservoir project in Waimate North, New Zealand, a major water infrastructure development designed to strengthen regional water security and improve drought resilience.

As part of the reservoir's outlet works, AWMA custom-designed a TLF Penstock for flow regulation and a WLF Penstock for outlet isolation. Both water control gates were manufactured from Grade 304 stainless steel, selected for its durability, corrosion resistance and long service life.

Installed within the outlet structure, the penstocks provide controlled water releases and the ability to fully isolate the outlet for maintenance and operational safety, ensuring reliable and efficient water management.

Now operational and actively filling, the Otawere Reservoir represents a significant investment in water infrastructure. AWMA is proud to contribute to the project's success through the supply of high-quality penstock solutions that will support safe and dependable performance for decades to come.

Gate installation for the Koondrook-Perricoota Forest Project's levee at Shear Paddock
(Photo courtesy of the NSW Department of Climate Change, Energy, the Environment and Water)



WATER CONTROL INFRASTRUCTURE FOR SDLAM

AWMA has been selected to supply water control infrastructure to support the delivery of the NSW Government's Sustainable Diversion Limit Adjustment Mechanism (SDLAM) Acceleration Program. Funded by the Australian Government, upgrades are underway at more than 30 sites across the Murray and Murrumbidgee regions.

The works involve replacing ageing regulator and fishway infrastructure with modern automated systems to improve fish passage, wetland inundation and river connectivity. Under the program, AWMA is delivering approximately 50 custom-engineered designs and manufacturing 115 water control gates tailored to site-specific operating conditions.

Drawing on a range of AWMA's proven water control solutions, the new infrastructure will improve the delivery and management of environmental water across key floodplain and wetland systems, while enhancing operational efficiency and long-term asset reliability.

Once commissioned, the new infrastructure will deliver lasting benefits for waterways, local communities and the environment.

[Read more about AWMA's role in the SDLAM Acceleration Program on the AWMA project page.](#)



RECENT PROJECT GALLERY

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HEAD OFFICE

Phone +61 3 5456 3331 Email info@awmawatercontrol.com.au
118 Roviras Road, PO Box 433, Cohuna, Victoria 3568, Australia.

www.awmawatercontrol.com

