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**Riverbend Park** 

# FLOOD PROTECTION FOR LAUNCESTON

#### Approximately 2,400 properties in low-lying areas of Launceston are now flood protected by structural upgrades including a 2m high FloodFree Demountable Barrier.

A 12km long flood mitigation solution in Launceston will protect the area in a 1% Annual Exceedance Probability (AEP) flood event.

Earthen and concrete levees on either side of the Riverbend Park entrance left an 18m wide access area. This section is now flood protected with a custom-designed Demountable Flood Barrier solution.

Launceston is impacted by flooding of both the North and South Esk Rivers. In the event of a flood warning, storage racks designed to include all required posts, Acrow Props and barrier segments are transported to the site for manual deployment.

Covered, permanent in-ground footings ensure fast and efficient installation. Once the cover plates are removed, the centre posts and Acrow Props are fastened to the in-ground footings. Barrier segments weigh only 6.5kg each and can be easily handled by a single person. The segments are lifted from the storage rack and slid one at a time into the frame created by the centre posts to form a flood barrier. No special skills or specialist training are required to erect the demountable flood barrier.

Pictured is the Riverbend Demountable Flood Barrier during a training session.



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# **GENERALLY SPEAKING**

AWMA develop water control and screening solutions in partnership with our clients. There are no "off-theshelf" orders, every product is custom designed to meet specifications.

This process often begins with early contractor involvement in order to develop viable design proposals for consideration.

Whilst this degree of involvement is a time-consuming process it has been proven to result in solutions that have:

- Reduced civil costs
- Efficient installations
- Lowered project capital expenditure (CapEx)
- Reduced operational expenditures (OPEX)
- Improved safety of operation and maintenance
- Reduced time and costs of maintenance
- Provided longer asset life for a reduced whole of life cost

These benefits are not driven by any specific product that AWMA designs and manufactures. The true benefit comes from the value of the partnership.

Our experience extends beyond the gate, screen or flood barrier we supply. Gaining an in-depth understanding of a project's objectives allows a more holistic view of how all the components can be engineered to ensure maximum value with minimum expense. The AWMA team is a strong advocate for open, honest communication, early engagement, face-to-face contact, concept development and site visits. All of which strengthen our ability to be a valuable partner.

AWMA infrastructure is integrated into larger operational systems where a single piece of equipment can have a significant impact on the return on investment. Early involvement has often resulted in design considerations that were pivotal in successful project delivery.

Working with clients to develop sustainable and viable solutions for challenging water management and screening projects is what we do best. Our team takes on challenges, supports your process and adds value wherever possible.

What water infrastructure challenges do you have among your upcoming projects?

Feel free to reach out - we look forward to supporting you through the process as best we can.



Brett Kelly Managing Director



### MODERN PRIMARY INTAKE SCREENS

### AWMA manufacture self-cleaning screens, designed to improve raw water intake systems.

Common issues with traditional screens have been noted to include:

- Traditional screens are 'always blocked'
- Cleaning traditional screens is an expensive and a time consuming process
- There are numerous OH&S concerns with operating and maintaining traditional screens
- Current systems can not provide reliable flows
- The costs of maintaining and replacing components are greatly increasing
- When maintaining the screen is delayed or fails, the filtration systems are often removed causing increased damage to the pump and pipeline infrastructure

AWMA design and supply modern primary intake screens, installed at the water extraction point, to reduce the loading or eliminate downstream fine filtration systems.

Engaging with project partners, the screen team endeavour to understand the issues with current systems and then develop solutions for sustainable water extraction, whilst also providing considerable return on investment.



# **SCREENS PROTECT NEWRY PIPELINE**

AWMA Debris Screens for the Newry Pipeline intake system, use fish-friendly screening technology to ensure debris-free water delivery.

The Southern Rural Water (SRW) Macalister Irrigation District Modernisation Project is focused on replacing the district's ageing channel irrigation network with a modern system. This project included construction of the \$39.8 million Newry Pipeline. AWMA worked in partnership with Jaydo Constructions and SRW to deliver self-cleaning inlet screens for the project.

Cone screens were specified for the inlet structure to ensure the pipeline remains debrisfree, protecting downstream infrastructure and delivering reliable flows of high-quality water. The pipeline inlet structure design included two AWMA Cone Screens as they are suited for shallow water applications, thus ensuring flow intake capacity during low channel levels. The cone screens, designed to deliver flows of 100ML/day, utilise a 2mm aperture wedge wire screen medium, are manufactured from grade 304 stainless steel and benefit from a tri-brush cleaning system. The integrated brush cleaning system is driven by a solar, hydraulic power unit (HPU).

The screen cleaning system has a low-duty cycle, operating for 2 minutes every 8 hours which is controlled through the automated system and monitored via SCADA.

Every AWMA screen solution is engineered to meet specific flow and velocity criteria with

a minimal construction footprint. The selfcleaning functionality ensures that reliable, costeffective and high quality water is delivered. This modern screening technology is durable, compliant with industry best practice, has low whole-of-life costs and is internationally proven.

A set of 5 metre wide AWMA Stopboards with storage racks were also supplied to facilitate isolation, inspection and maintenance of the intake structure and screens. An integrated service platform was installed to ensure operators could safely inspect the screens, brushes and observe operation at any time.

To discuss modern water intake systems that are environmentally and safety compliant, designed to project specifications and with proven performance, please contact our screen team.

# PENSTOCKS FOR TASWATER WTP

#### The Bryn Estyn Water Treatment Plant (WTP) is greater Hobart's primary source of drinking water.

For the past two years TasWater has been upgrading and expanding the plant to provide a reliable supply of 160 million litres of high quality drinking water per day to around 200,000 customers.

Objectives of the Bryn Estyn WTP Upgrade Project included improving the operational efficiency of the plant by increasing capacity and modernising infrastructure.

The modern water control infrastructure integrated into this project included 21 custom AWMA TLF Penstocks, manufactured from grade 316 stainless steel with rising spindles under manual operation. Also supplied were two actuated, downwards opening DLF Penstocks, manufactured from grade 316 stainless steel.

This project is the single largest infrastructure project undertaken by TasWater and will provide consistent water quality to meet forecasted demand for the next 30-50 years.



## RECENT PROJECT GALLERY

### INNOVATIVE - CUSTOMISED - SUSTAINABLE



#### FLOOD I ENVIRONMENTAL I IRRIGATION I WATER TREATMENT I DAMS I ENERGY & RESOURCES

![](_page_3_Picture_4.jpeg)

FloodFree Door

with Optional Push Bar

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