



Interflow[®]

**Creating the
Future of Water**

Stormwater

SUSTAINABLE WATERWAYS



Who we are

**Our customers
and communities
are at the forefront
of everything
we do**



Stormwater

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Bringing over 85 years of expertise in the water infrastructure field, we have become leaders in stormwater program management – from planning and design to construction and maintenance, we focus on our customers and the communities we serve.

Equipped with the knowledge, capability and solutions, our specialist teams deliver customised stormwater solutions across Australia and New Zealand that focus on reliable, quality and long-term operation for generations to come.

We work collaboratively with you and your community to ensure that your stormwater assets provide their required levels of service in the most cost-effective manner, and that they cater for both present and future operational needs.

When you call on us, you can be confident that your challenges, concerns and pain points are factored into our planning, and that our end-to-end solutions will be tailored specifically to you.

We believe in challenging the status quo and are backed by a dedicated team of experts, premium products, a culture of innovation and honest, ethical practices.

**We create a
stormwater
future you can
depend on.**



Understanding and solving your stormwater needs

At Interflow, we understand that no two customers are the same, and that each customer's requirements need a unique and customised approach.

We take the time to understand the partners we work with, identifying your challenges from the outset, so that we can develop stormwater solutions tailored to your individual needs.

We do this by listening to you and identifying the specific project conditions that are causing your concerns. This may include considerations like making sure residents understand the nature and timing of our works so that they are well-informed when we arrive on site. It also could be ensuring that no pollutants enter a natural stream.

We take a holistic approach to how we deliver and that encompasses our communities. Every service we provide throughout your project's life-cycle is designed to improve the lives of your communities and your climate – now and into the future.



Delivering what you need, when you need it

Throughout our 85+ year journey, we have established ourselves as experts in construction, pipe lining, relining, sealing, coating, repairs and maintenance of stormwater assets. Our partnership will ensure your stormwater assets are managed throughout all stages of the project – from initial consultation, planning and design through to construction and maintenance.

Stormwater assets deteriorate due to corrosion, abrasion and ground movement. When we plan works, we select the best solution based on your needs, specific site conditions and the local environment.

Our extensive range of services includes our patented spiral-wound liners, that enable us to repair stormwater pipes whilst maintaining flow capacity. This avoids the need to decommission existing lines or excavate roads, making your projects more time and cost efficient.

Critical to our stormwater management process is maintaining an optimum flow to keep streams, lakes and aquatic life healthy for the environment and our communities.

This process also supports water used by people, enabling a natural flow cycle which prevents infiltration, flooding and erosion.

Our teams are qualified to inspect, assess, construct and renew even the most degraded stormwater pipes and will work around-the-clock in the most critical situations to ensure your project is delivered to the highest quality.



Your program management Delivery Partner

As a self-performing delivery partner, we pride ourselves on providing an end-to-end service for our customers.

By having our own in-house expertise, it means our people know how to do the work.

This gives us a comprehensive understanding of project tasks and methodologies, enabling us to drill to the heart of a problem and develop a stormwater asset solution that's tailored to you.

When we carry out your stormwater works, we carefully consider:

- **Our carbon footprint:** Ensuring our methods have the lowest environmental impact through new, 'eco-friendly' technologies.
- **Social and environmental impact:** Reducing impact to your stakeholders and the surrounding environment.

- **Long-term reliability:** Working in a broad range of site conditions and environments to continually improve our solutions and approaches.
- **Total Delivered Cost:** Taking a life-cycle approach to deliver the best value for money and management strategies for the long-term.

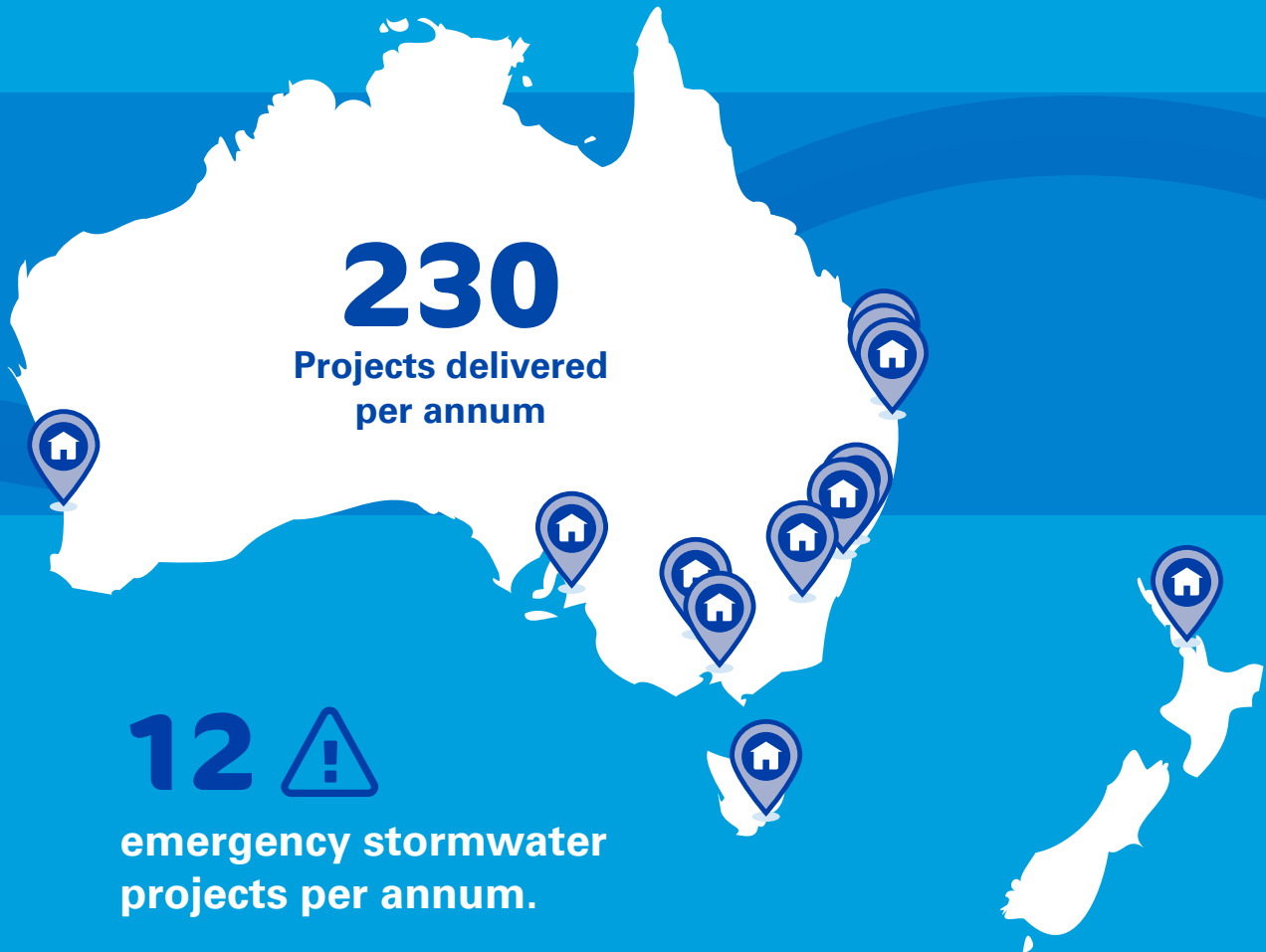
Our customer and community-centric approach has seen us thrive in the face of a rapidly evolving industry to become one of the leading providers of water infrastructure solutions.

We look forward to sharing this vision and working with you to develop sustainable stormwater infrastructure solutions that improve the lives of the people we work with, the communities we serve and the environment we work in for generations to come.



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Our services, capabilities and solutions

Sustainable Waterways for Generations to Come

For a successful stormwater asset management plan, it is important to consider the physical, environmental, technical, operational and social components that all work synergistically to create the most sustainable and cost-effective solution.

Our stormwater management and operations teams comprise civil, structural, environmental, hydraulic, chemical, and mechanical expertise.

Based on decades of working closely with our customers and finding unique ways to solve their problems, our services, capabilities and products are designed to improve performance of stormwater assets, optimise operation, and improve the lives of the communities we serve.

Our teams will help you manage the transportation of raw water including rainwater, ground water and water collected from springs in the safest and most sustainable way.

Our key services in the stormwater space include:



Condition assessment, program development and design



DN100mm-DN3000mm



Environmentally safe solutions



Construction and repairs of structures such as pits and headwalls



Robotic repairs and silt removal

Our services



Planning and Design

- Community relations
- Environmental management
- Flow management and bypass
- Traffic management
- Safety management and risk assessment
- Emergency incident response
- Asset management planning and budgeting



Construction

- New connection to drains
- Drainage pipelines
- Access chambers
- Civil dig-ups and repairs





Maintenance

- CCTV inspection
- Wincan condition reporting and assessment
- Dye testing
- Smoke testing
- Laser profiling
- MD / HD profiling
- Service proving
- Location by sonde
- Concrete core sampling
- Pit condition assessment
- Service prediction
- Cleaning
- Silt removal dredging
- Mechanical and hydraulic root removal
- Root foaming
- Junction seals (Interfit)
- Spiral lining (Expanda, Rotaloc, Ribline)
- Cured in place lining (Interline)
- Ribsteel liner
- Slip lining
- Pipe bursting
- Horizontal directional drilling
- Protective coatings (epoxy and CAC)
- Patch lining (Interpatch)
- Pit ladder and step iron replacement
- Pit replacement
- Drainage replacement by excavation
- Mechanical repair bands
- Robotic grinding
- Localised repair by excavation
- Raising pits
- Maintenance hole cover and frame replacement





Our case studies

We are committed to offering you optimum solutions of the highest standard for stormwater management. With a long history of expertise that dates back to 1936, we provide solutions that are smart, effective and sustainable, which set communities up now and into the future.

Read more about how we solve our customers' stormwater problems.

When we plan your stormwater project, we plan to protect your water quality.

Relining deteriorated pipes

Location: Ipswich, QLD

Customer: Ipswich City Council

During a stormwater condition assessment program, Ipswich City Council was surprised by the discovery of a deteriorating brick chamber buried beneath a popular local sports field. Once a functioning road culvert, the 20-metre chamber was later sealed at each end and joined by pipes to form part of the local stormwater system.

The poor condition of the chamber raised concerns that its possible collapse could cause a sink hole in the park above, threatening the safety of the community. Interflow was engaged to secure the structure and prolong the life of the ageing stormwater asset.

Ten metres of potentially hazardous landfill and earth stood between the chamber and the surface, ruling out any renewal solutions that relied on excavation. After considering all possible alternatives, Rotaloc, a spiral-wound structural liner, was the stand-out option.

With a trenchless solution identified, the next challenge was getting the Rotaloc machine in place to perform the lining works. The nearest practical access point was a manhole located 100m away, so crews devised a way to disassemble the machine and transport it through the connecting pipeline to the chamber site. The machine was then reassembled in the confined space and ready to use. With a structural liner in place, the void was backfilled with grout and sand to secure the structure.





Rehabilitation without decommissioning

Location: Mooloolaba, QLD
Customer: Sunshine Coast Council

Sunshine Coast Council engaged us to rehabilitate the Mooloolaba stormwater outfall. The 1,800mm diameter reinforced concrete pipeline was letting in groundwater and soil through leaking joints, resulting in reduced flow capacity and causing flooding in the town centre. The project presented a number of challenges. The upstream end of the pipeline was located under a busy intersection, while the downstream end at the marina was at least partially submerged most of the time and was heavily encrusted with oysters.

We overcame these challenges by installing a grouted Rotaloc spiral wound liner, which enabled us to carry out the work without the need to decommission the existing line or excavate the road, park or pedestrian pavement surfaces above.

We first cleaned the oyster encrustation with ultra-high-pressure jetting and chain flails, and as the downstream end was mostly submerged, we constructed a piled cofferdam to gain access to the pipeline to install the structural Rotaloc liner. However, due to the deteriorated wall around the outlet, seawater was penetrating and entering through the leaking pipeline joints. To overcome this challenge, we installed a removable plate that blocked the pipeline end during working periods and excavated a small pit just upstream of the submerged end, which allowed us to dewater the pipeline.

We completed all lining work over a three week period – a short duration compared to the alternative of excavation and pipeline replacement. Throughout the works, we put in place measures to protect the delicate marine environment, and carried out most of the work at night with complex traffic management in place to minimise community disruption.

Since completion of the renewed outfall, flooding during high rainfall periods has been effectively eliminated.

Design and construction of siphon lining

Location: Parramatta region, NSW

Customer: Sydney Water

Sydney Water has a program of works designed to reduce the impact of wet weather overflows on the environment. Interflow was engaged through this program to deliver the Upper Parramatta Source Control project aimed at reducing the inflow of stormwater into the sewer network through existing Emergency Relief Structures (ERS). Sydney Water had a mandate to deliver these works within an extremely tight timeframe, and Interflow was ready to rise to the challenge.

The project was split into two packages and covered an impressive 47 site locations. The varied works involved the construction of new chambers, retrofitting one-way valves into existing assets, and building new headwalls to facilitate the installation of further new valves.

The challenge for the project team was planning and delivering works at each of these distinct sites, many of which came with their own unique design complications, community needs, and environmental concerns. By engaging stakeholders early, Interflow was able to plan around many of these challenges and incorporate re-designs into the initial project schedule.

Hardworking crews faced further challenges on this essential upgrade project. Despite early engagement and careful planning, unforeseen design changes, wet weather and the rising threat of COVID-19 all posed a threat to the schedule on this time-critical project.

Interflow took an agile approach and introduced streamlined processes and flexible scheduling to deliver the works well before Sydney Water's committed deadline.





Stormwater pipe rehabilitation

Location: Port Macquarie, NSW

Customer: Port Macquarie-Hastings Council

Port Macquarie-Hastings Council engaged us to rectify a deteriorated stormwater pipe draining to a waterway in Port Macquarie, with heavy infiltration through open joints and shellfish encrustation of the pipe walls. The reduction of its flow capacity contributed to regular upstream flooding.

Rectification was complicated by the pipe outlet frequently being totally submerged and the pipe diameter varying from DN800 to DN950.

We installed an Expanda liner. This was considered the optimum solution to restore the pipe's structural capacity and eliminate infiltration, considering the working hours were limited by tides and the varying pipe diameter.

To avoid disruption in the CBD, we installed the Expanda liner from the downstream end, even though this was submerged much of the time.

Work took place from a cofferdam installed at the end of the pipe. Dewatering inside the dam was carried out with our Interflow Super 2000, usually used as a combination recycling jetter. Heavy cleaning was then necessary to remove the oyster colonies encrusted inside the pipe.

The liner was installed from the dewatered cofferdam. As Expanda is mechanically expanded during the installation process, it was able to efficiently handle the variations in diameter along the pipe length. Installation does not block the pipe and heating is not part of the process, so work could be undertaken in working hours limited by low tide with the liner partially submerged.

These works resulted in long term pipe restoration, restoring its flow capacity and minimising the chance of flooding in the CBD.



How can we help you?

Our stormwater projects show how we deliver the 'how' for our customers – keeping our streams, lakes and aquatic life healthy and creating sustainable waterways for generations to come.

You have learnt about who we are and why we exist – to solve our customers' problems. To continually challenge the status quo. No job is too large and complex, or too small and simple. We work around you.

**Contact us today
and find out how
we can help**

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