

MAGRYN

Capability Statement

Sand Management | Boat Ramp | Yorke Peninsula, SA

Our Company Profile

Magryn & Associates Pty Ltd is an engineering consultancy based in Adelaide, delivering expert solutions for structural, maritime, and coastal projects across Australia and internationally.

Established in 1994, we have grown steadily, building a strong reputation for technical excellence. With decades of experience, we serve a diverse client base, including local and state government agencies, industry leaders, private clients, and strata corporations.

Magryn is an agile company that delivers big results through effective collaboration and a tailored approach to each project.

We work closely with licensed surveyors to conduct land and near-coastal water surveys. By engaging a network of specialised consultants, we ensure that each project benefits from the right expertise at every stage.



Jetty Redevelopment | Whyalla, SA



FRP Beach Access Stairs | Encounter Bay, SA



Coastal Assessment | Snug Beach, TAS

Our Expertise

- Coastal Engineering /Science
- Ports and Maritime Engineering
- Structural Engineering
- Civil Engineering
- Expert report writing
- Forensic Engineering

Our team excels at solving complex problems and designing resilient, compliant, and innovative engineering solutions. Comprised of highly qualified engineers and coastal scientists, including chartered professionals and PhD-level experts, we are supported by skilled technical officers, drafters, and administrative staff. By leveraging the latest technology and advanced computer software, we streamline design and drafting processes to ensure efficiency and precision in every project.

We provide practical advice and cost-effective, long-term solutions by fostering clear communication and collaboration with consultants, contractors, and stakeholders. Our multi-disciplinary team enables us to streamline complex projects, delivering high-quality results, no matter the scale or challenge.



Coastal Engineering & Science

Resilient solutions for changing coastlines

Magryn brings together specialist coastal engineers and in-house coastal scientists to deliver integrated solutions across the full project lifecycle, working as a single unit from initial process assessment through to protection structure design and construction support.

We take a holistic, data-driven approach to every project, ensuring that all factors that environmental, economic, and social are considered in the decision-making process.

Our tailored solutions combine advanced data analysis with innovative design, providing long-term, sustainable outcomes for coastal communities.

Our coastal engineers are passionate about the coast, and enjoy a strong professional relationship with councils, government departments and the private sector across Australia.

Our approach is grounded in technical rigour, local coastal knowledge, and a practical understanding of what it takes to get projects through planning and into implementation.



Coastal Alignment Study | Tumby Bay, SA



Riverfront Upgrade | Thiele Reserve, SA



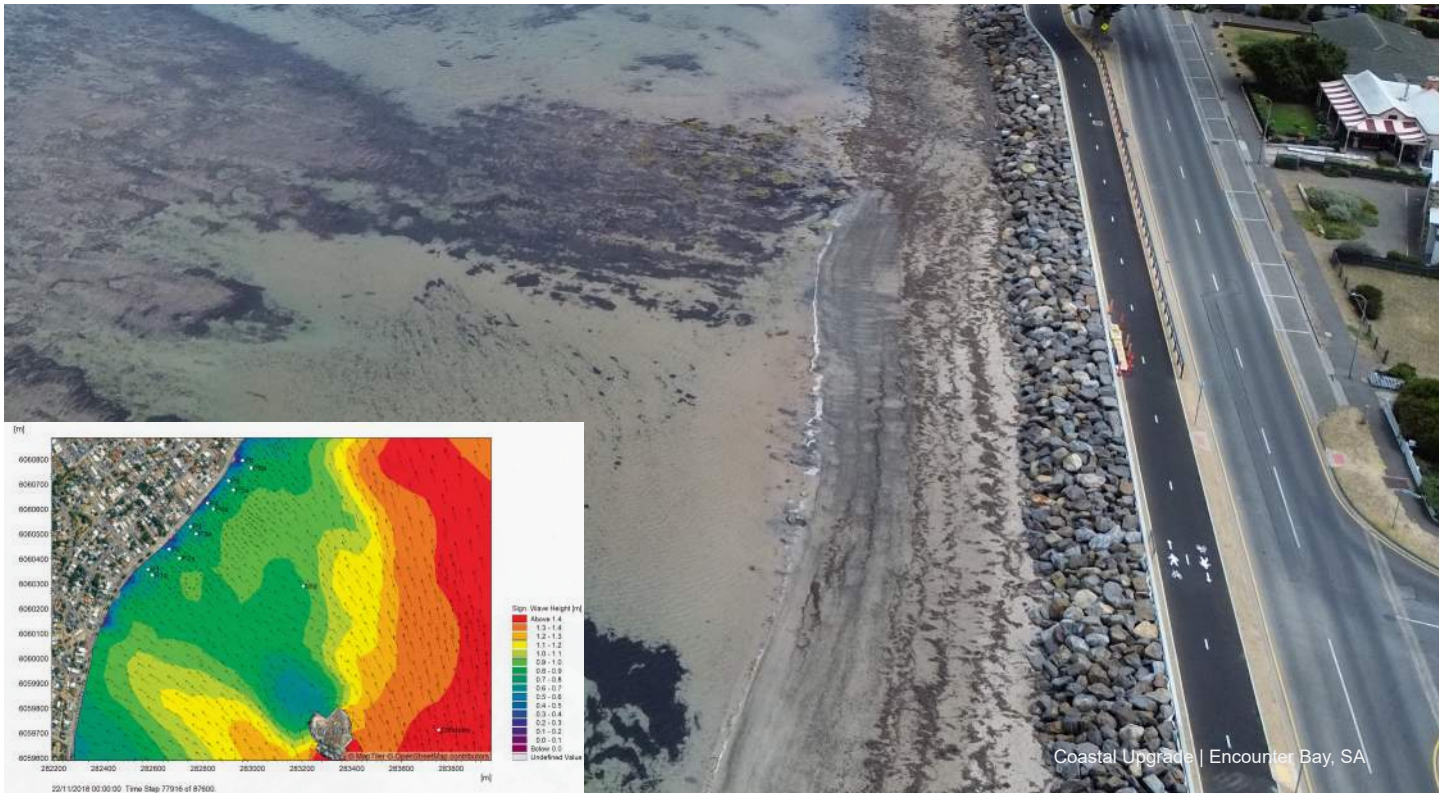
Coastal Adaptation | Southport, SA



Breakwater Assessment | Arno Bay, SA



Sandbag Revetment | Yandra Tce, SA



Coastal Upgrade | Encounter Bay, SA

Adaptation and Planning, our key to success.

Our **capabilities** include:

Coastal process and geomorphology assessment, covering wave climate, tidal range, sediment type and transport pathways, dune morphodynamics, and historical shoreline behaviour.

Coastal hazard and erosion assessment, using a hazard/risk framework consistent with relevant state guidelines and Coastal Protection Board Policy.

Erosion and shoreline change modelling, quantifying storm bite volumes, erosion setback distances, and long-term recession rates using industry-standard numerical tools.

Sediment transport and sand budget analysis, assessing longshore and cross-shore sediment fluxes and potential impacts on adjacent shorelines.

Coastal adaptation planning, working with councils, planners, and community stakeholders to develop strategies that account for sea-level rise and



Coastal Protection | Rogues Point, SA



Hybrid dune-sandbag revetment | Basham Beach, SA

changing storm frequency.
Coastal protection design, encompassing hard structures such as rock revetments and seawalls, and soft and hybrid approaches including geotextile sand containers, beach nourishment, and living shorelines.

Beach access structures, designed for wave loads and hydrodynamic forces with erosion envelopes driving foundation depth and geomorphological context shaping layout and orientation. Structures delivered in concrete, timber, and FRP including DDA-compliant ramps.

Stormwater outfall design, incorporating long-term coastal processes from the outset to minimise interference with sediment transport and manage scour under a range of discharge and wave conditions.

Coastal structure inspection and asset management, including condition assessments of seawalls, jetties, wharves, pontoons, and boat ramps above and below the waterline using free diving, professional dive teams, or our in-house underwater drone.



Ports | Maritime Engineering

Marina Redevelopment | Cowell Foreshore, SA



Mooring Facility | Linderman Island, QLD

Connecting Communities to the Coast

Ports and maritime engineering has been a key pillar at Magryn since inception. We design and deliver marine structures across a broad range of scales and project types for coast and river environments across South Australia and nationally, including:

- Boat ramps
- Breakwaters
- Jetties and wharves
- Marinas
- Pontoon facilities

Our designs are informed by rigorous data analysis and metocean studies, ensuring site-specific wave, tide, and current conditions are accurately represented from the outset.

We provide an end-to-end service across the full project lifecycle, from concept stage options development through to detailed design and construction documentation. We prepare drawings and specifications suitable for open tender and provide construction phase support and hold-point inspections where required.

Marine asset condition assessment is also a core part of our practice, covering jetties, wharves, pontoons, seawalls, and boat ramps above and below the waterline, reported in accordance with the Wharf Structures Condition Assessment manual.

Magryn is prequalified on the panel for provision of Marine Engineering Services for Marine Assets of the Department of Infrastructure and Transport (DIT).



Mooring Jetty | Meningie, SA



A fresh look for the Whyalla foreshore.

The Whyalla Jetty is an iconic structure designed to replace the old steel jetty while offering a modern, functional, and visually striking addition to the Whyalla coastline.



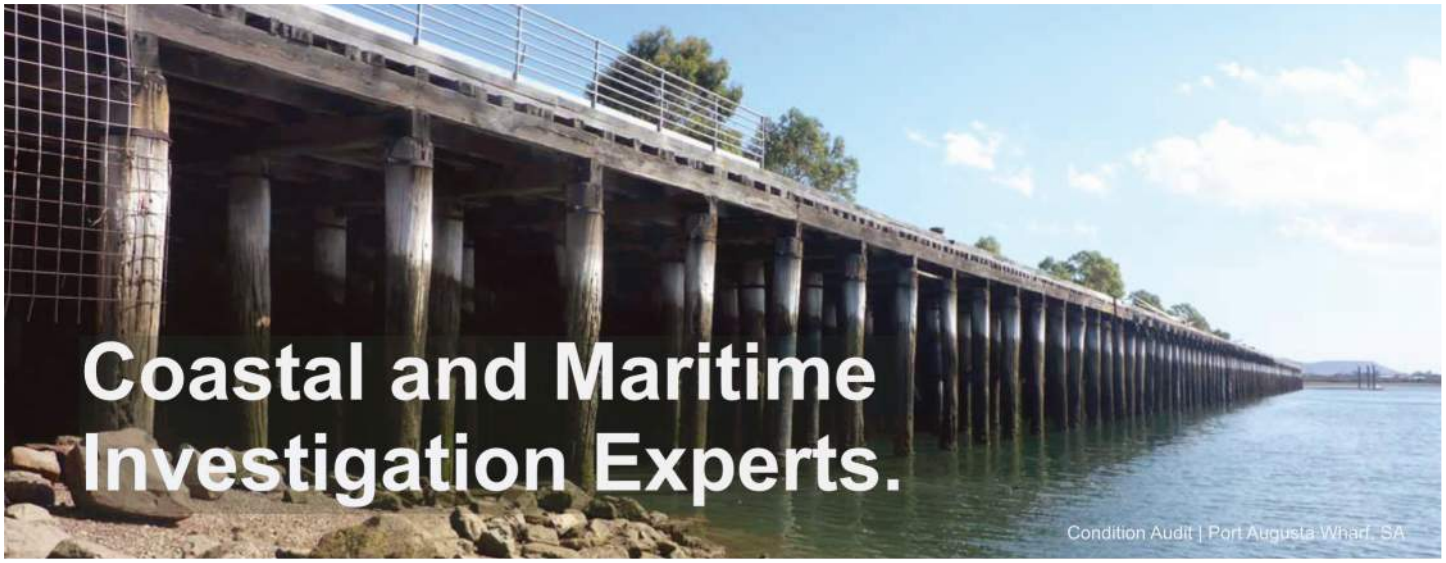
Jetty Redevelopment | Whyalla, SA

Coastal design | Rose Bay, NSW

Delivering for Coastal Communities.



Ports | Penneshaw and Cape Jervis, SA





Practical Solutions and Low-maintenance design.







Meet the Magryn Team.



Terry Magryn

Founder | Principal Engineer

B.E.(Hons) M.Eng.Sc., C.P.Eng., NPER, F.I.E.Aust., Eng. Exec.

Terry has over 40 years of experience in engineering investigation and design for various government departments and private consultancies.

He started Magryn in 1994, and brings a wealth of industry knowledge and experience to the business.



Rohan Parkhill

Managing Director

B.E.(Hons), M.I.E.Aust., C.P.Eng., NER.

As Managing Director of Magryn and Associates, Rohan is responsible for general office management and project scheduling.

Rohan holds CPEng qualification with Engineers Australia and equivalent status as RPEQ (Queensland) and Registered Building Practitioner (Victoria).



Will Souter

Technical Director

B.E.(Hons), M.I.E.Aust., C.P.Eng, NER.

Will's role as Technical Director involves assisting with the general running of the business, oversight of technical standards and quality assurance.

He is a PhD candidate at Flinders University, researching hybrid coastal defence systems, combining nature-based and engineered solutions.



Beach access road | Balgowan, SA

Why Choose us?

We have several engineers, scientists and technical officers ranging from well experienced seniors to graduates just starting out on their careers.

We provide our staff a relaxed and enjoyable working environment, where they are provided mentorship and opportunities for professional and personal growth.

We encourage and actively support all of our engineers to achieve Chartered (CPEng) status as part of their development. We partner with Engineers Australia to support them along this road, as well as paying their fees to achieve this.

We **pride** ourselves on offering:

- Experience You Can Trust: Decades of expertise in coastal and maritime sectors, delivering resilient engineering solutions.
- Collaborative Approach: Working closely with clients and communities to deliver safe, sustainable, and practical projects.
- Technical Excellence: Combining engineering acumen with innovative practices and staying at the forefront of industry developments.
- Environmental Focus: Emphasizing eco-friendly materials and strategies to mitigate climate change impacts.
- Client-Centric Solutions: Understanding unique project needs and tailoring solutions for maximum value.



In house equipment.

At Magryn & Associates, we ensure that our technical staff have access to a broad range of advanced in-house equipment to support their work and deliver the highest quality results.

Our equipment is regularly updated to incorporate the latest technology, ensuring we stay at the forefront of industry standards.

We utilise specialised tools and resources for a variety of tasks, including site surveys, measurements, inspections, and data collection. In addition, we use state-of-the-art surveying, inspection, and testing equipment, including drones, hydrostatic and ultrasonic tools, and other advanced measurement devices, to gather accurate data and provide reliable results.



Jetski | For Marine Assessments and Surveys

WHS | Insurance | Compliance.

Magryn have a purpose drafted WHS policy and manual, which has been reviewed and approved by Safework SA along with appropriate SWMS for use on various jobs. This is particularly important for work in and on the water, and on industrial sites such as mines.

Magryn always carry:

- Professional Indemnity Insurance
- Public Liability Insurance
- Return to Work SA Registration
- Comprehensive Motor Vehicle Insurance on all cars.


Boat Ramp | Baudin Beach, SA

Quality Assurance.

At Magryn we are dedicated to providing exceptional engineering services while maintaining the highest standards of quality. Our commitment to quality assurance is a cornerstone of our operations, ensuring that every project we undertake is executed with precision, efficiency, and excellence.

We have established comprehensive Quality Procedures that guides our operations and reflects our dedication to delivering outstanding results.

Our Quality Policy includes the following key **principles**:

- Qualified Team: We employ a team of highly skilled and experienced engineers who are experts in their respective fields. Our team members undergo regular training and professional development to stay up-to-date with the latest industry advancements.
- Project reviews: Each of our team members report to a team leader, who provides ongoing reviews throughout the project and upon completion of the documentation prior to submission.
- Project Planning: When required, we develop detailed project plans that outline objectives, timelines, resource allocation, and key milestones.
- Documented Processes: We maintain comprehensive documentation of our processes and workflows to ensure consistency in project execution.
- Client-Centric Approach: We prioritise our clients' needs and expectations, ensuring that we deliver solutions that meet or exceed their requirements.

A 30 year journey, making a name you can trust.

- Adherence to Standards: We strictly adhere to all relevant industry standards, codes, regulations, and best practices to ensure the safety, integrity, and sustainability of our projects.
- Risk Mitigation: We proactively identify and mitigate potential risks throughout the project lifecycle to ensure smooth execution and successful outcomes.
- Transparent Communication: We maintain open and transparent communication channels with our clients, stakeholders, and project teams to foster collaboration and keep all parties informed throughout the project.
- Software: We utilise the latest design software packages, which are regularly updated and ensure compliance with the most recent standards.
- Other consultants: If there is an area that is not within our expertise, we do not hesitate to collaborate with other specialists to ensure the right person is handling all aspects of the project.
- Internal Quality Audits: Regular quality audits are conducted at various project stages to verify compliance with standards and client specifications. Any deviations are promptly addressed and rectified.
- Client Feedback: We actively seek feedback from our clients and stakeholders, using this input to continually enhance our services and address any concerns promptly.

At Magryn we consider quality assurance an integral part of our mission to deliver innovative, safe, and sustainable engineering solutions. Our dedication to quality, continuous improvement, and client satisfaction sets us apart as a trusted partner for all your engineering needs.

MAGRYN

Contact Us

For further information or to discuss your next ports, maritime, or coastal project, please reach out to our team. We collaborate to achieve the best outcomes, providing sustainable engineering solutions that shape our coastlines and marine environments for future generations.

Whether you need a feasibility study, concept design, or detailed engineering services, Magryn & Associates is your trusted partner in ports, maritime, and coastal engineering.

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Partners | Affiliates

SOUTH AUSTRALIA

Proudly South Australian owned and operated.

ENGINEERS AUSTRALIA

ACS Australian Coastal Society Ltd

PIANC A.D. 1885 AIPCN NAVIGARE NECESSE

BOARD OF PROFESSIONAL ENGINEERS OF QUEENSLAND

VBA VICTORIAN BUILDING AUTHORITY

CONCRETE INSTITUTE of AUSTRALIA

SA-UAVs South Australian Drone Services

IPWEA INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA