

**HYNDS PIPE SYSTEMS**

# Capability Profile

# Hynds Introduction

**Five decades on from John and Léonie Hynds' first vision for this business, a genuine care for people, enduring relationships and industry leading innovation continues to be at the heart of Hynds. Today we are a proud employer of more than 800 people and remain committed to our core purpose – creating lasting infrastructure solutions for the future resilience of New Zealand.**

## Hynds at a glance



Infrastructure partner of choice for more than 50 years



Design & Manufacture of NZ's lowest carbon range of precast concrete and pipes



World-leading manufacturing technology



In house proprietary design and innovation



Select NZ partner for leading international brands



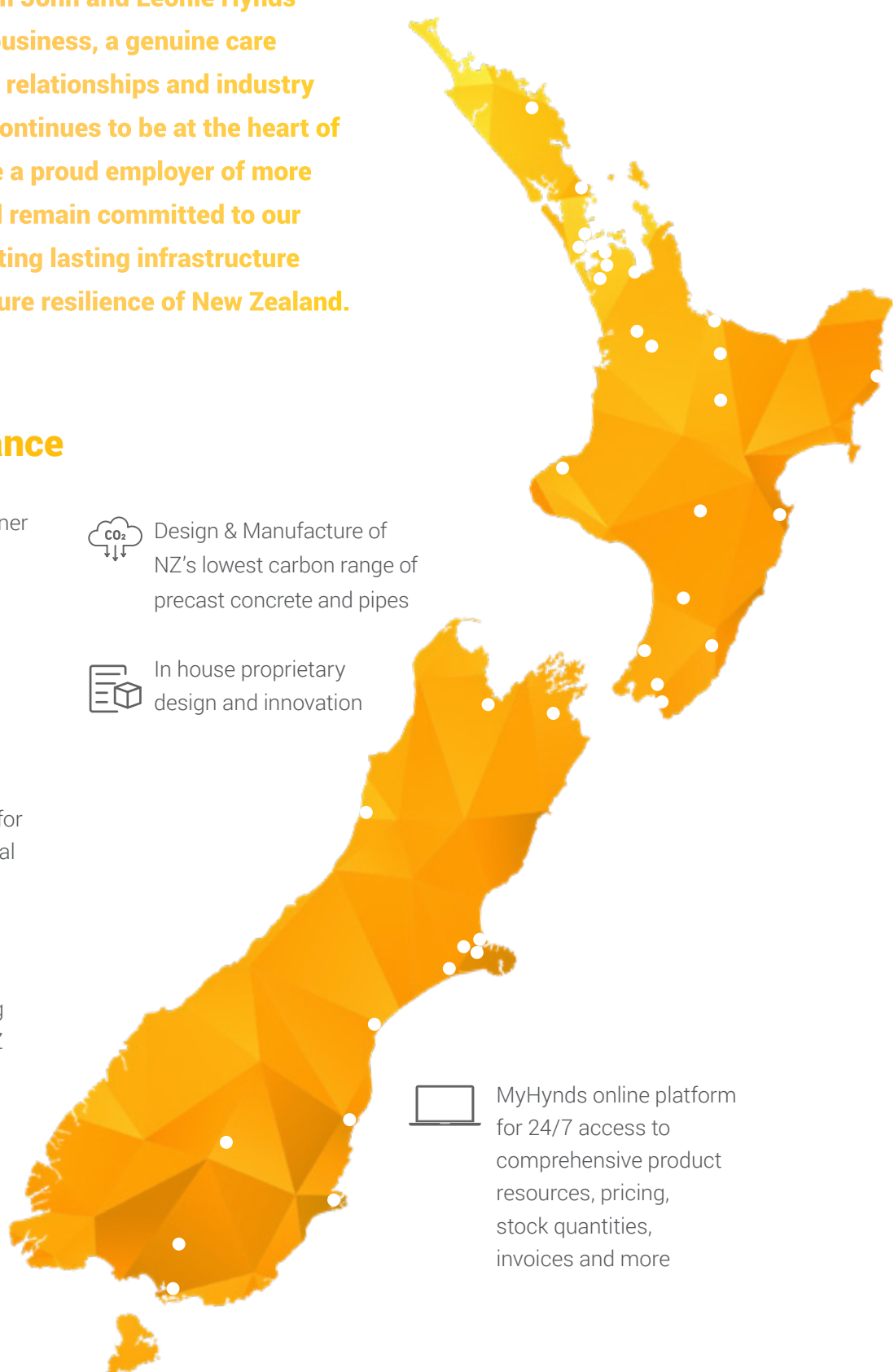
Extensive branch and manufacturing network across NZ



Specialist in water and infrastructure-based solutions



MyHynds online platform for 24/7 access to comprehensive product resources, pricing, stock quantities, invoices and more







*In a unique project, Hynds manufactured the precast piles and pilaster units for Auckland's Sky Tower. The 328-metre structure sits on eight legs manufactured by Hynds designed to withstand wind sweeps of up to 150 kilometres per hour and a one in 800 year earthquake.*

**We're proud to have been associated with some of the most innovative precast concrete structures, infrastructure projects and water solutions in New Zealand. Our reputation for reliable partnership, delivering to client specifications, being agile and responsive are synonymous with the Hynds brand.**



*Hynds Jacking pipe installation underway at Watercare's Central Interceptor project, ensuring durable and efficient underground infrastructure.*

## **Comprehensive Civil Infrastructure Partner**

We have seen a wealth of change in New Zealand's water and civil infrastructure industry over the last five decades. During that time, Hynds has grown and adapted to meet the changing landscape and needs of our broad base of infrastructure customers. From smaller scale network repairs and single run product design, to multi-stage nationwide programmes of work in partnership with the country's largest infrastructure providers and delivery specialists, our diverse capability equips us to handle complex requirements.

The multi-faceted nature of our business means we are unmatched in our ability to deliver across numerous stages of any project. With cutting edge manufacturing technology, an extensive nationwide branch network, robust and specialised transport fleet, and a team of leading technical experts well connected across the industry, we work alongside you to help problem solve and innovate for the best outcomes.



## A Sustainable New Zealand Business

We are passionately committed to delivering the best outcomes for New Zealand across all aspects of our operations. This includes ensuring we positively impact the environment and the local communities and economies where we operate.

- We are proud to give back through the Hynds Foundation. This charitable trust is driven through the desire to see greater social, cultural, environmental, and economic development in New Zealand and is focused on supporting valuable causes across the fields of education, health and heart research, arts and culture, community wellbeing and the environment.
- We support positive environmental outcomes and have committed to reducing our Scope 1 and 2 emissions and waste to landfill. While also prioritising use of EV vehicles across our operations.



*We sponsor and support Sustainable Coastlines, have set land aside for planting over 100,000 native trees and provide opportunities and funding for our people to support community-focused initiatives and causes.*





## Our Innovation Culture

We combine emerging market needs, technical advancements, and project viability to support and anticipate our customers' current and future challenges. Through our collaborative approach, we partner with customers to design value propositions that truly resonate with them. This includes hosting workshops and co-creation activities to foster collaboration and generate innovative ideas together.

To remain at the forefront of technological advancements in civil infrastructure, we actively collaborate with leading universities and Crown research organisations.

Our extensive network of local and international subject matter experts, in combination with our in-house R&D, enables us to fast-track pilots and proof-of-concepts through 3D printing technology. We blend these collaborations with the unrivalled expertise of our people, whose deep-rooted knowledge of the water infrastructure sector ensures practical and impactful solutions.



# Expertise in Climate-Resilient Infrastructure

**Our business has been built around innovating products and solutions that contribute to cleaner waterways, safe accessible drinking water for all and climate resilient infrastructure. This commitment to develop products and solutions that protect our environment continues to underpin our business and product innovation today.**

## **Our Climate-Resilient Infrastructure Solutions**

- Sustainable community solutions for flood, storm surge, and coastal erosion, customised to meet the needs of each project.
- A suite of product solutions to enhance green and blue infrastructure, tailored and customised as needed, working in partnership alongside asset owners.
- Smart solutions and diagnostic tools and technology to aid asset management and operations including sensor-equipped products that integrate with IoT systems to monitor infrastructure performance and detect issues early for timely intervention.
- In house and bespoke design of infrastructure elements to withstand extreme weather events and protect communities from the impacts of climate change. For example, integrating flood management and energy-dissipation systems into civil works and urban developments.





## Project Snapshot

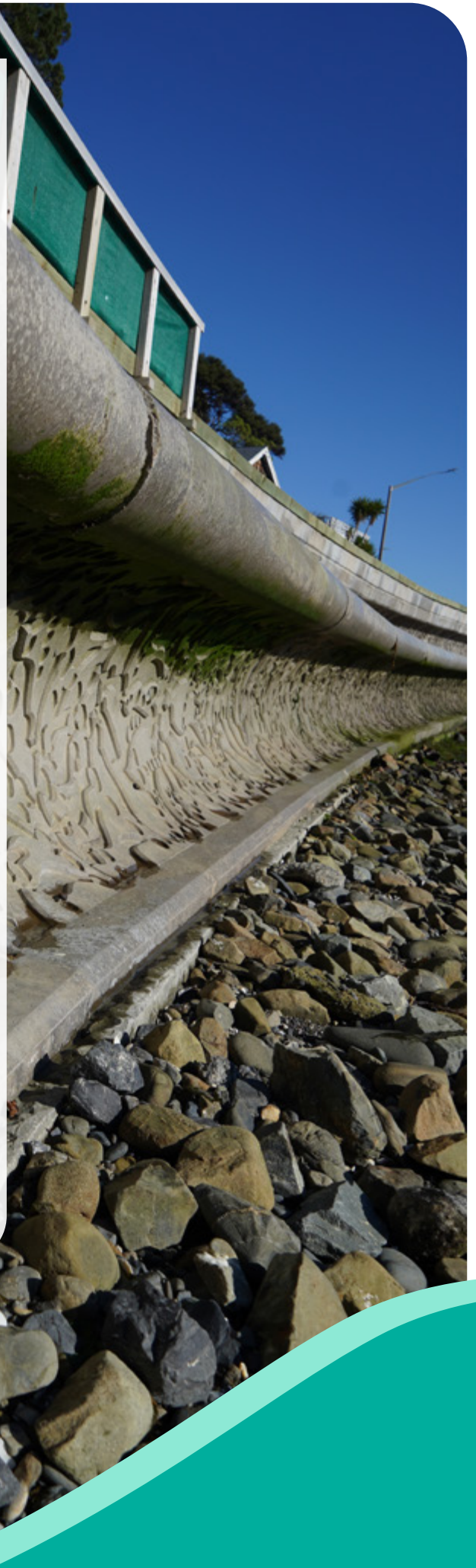
# Tupua Horo Nuku

Tupua Horo Nuku is a Hutt City Council funded resilience project delivered by Te Ara Tupua Alliance, made up of NZ Transport Agency Waka Kotahi in partnership with Taranaki Whānui ki te Ūpoko o te Ika and Ngāti Toa Rangatira (iwi mana whenua), construction partners Downer NZ Ltd and HEB Construction Ltd, and design partner Tonkin + Taylor.

Tupua Horo Nuku is a 4.4-kilometre seawall and shared path along Marine Drive between Ngau Matau/Point Howard and Eastbourne. The new seawall will improve the resilience of Marine Drive by providing protection against storms and waves, along with coastal erosion.

Hynds has manufactured the bespoke seawall units, with each unit measuring three metres long and including high strength 50MPa concrete and galvanised reinforcing. Manufactured at our Palmerston North site, the new seawalls not only provide protection from surge and waves, but also enable the Marine Drive corridor to respond to the challenge of climate changes and sea level rise, ultimately helping to protect the road and essential services for local communities.

The seawall units have also been designed to allow sea life to thrive with a Reckli liner. The curved surface on the front of the units has an architectural pattern cast into the unit. The design not only looks impressive, but creates a 29mm deep roughened pattern that will help provide a natural habitat for sea life.





## Contributing to a Low Carbon Future

We proudly created Hynds LC®—a revolutionary low-carbon concrete that redefines what's possible in water infrastructure projects. With Hynds LC®, asset owners can achieve up to a 25% reduction in embodied carbon, all while maintaining the highest standards of quality, performance and durability.

To better enable projects to accurately measure their carbon footprint, we have published externally verified Environmental Product Declarations and can provide customised carbon reports for non-standard products. HyndsLC® precast concrete products can be quantified using a third-party verified Carbon Calculator, ensuring accurate and reliable reporting of a project's carbon footprint.

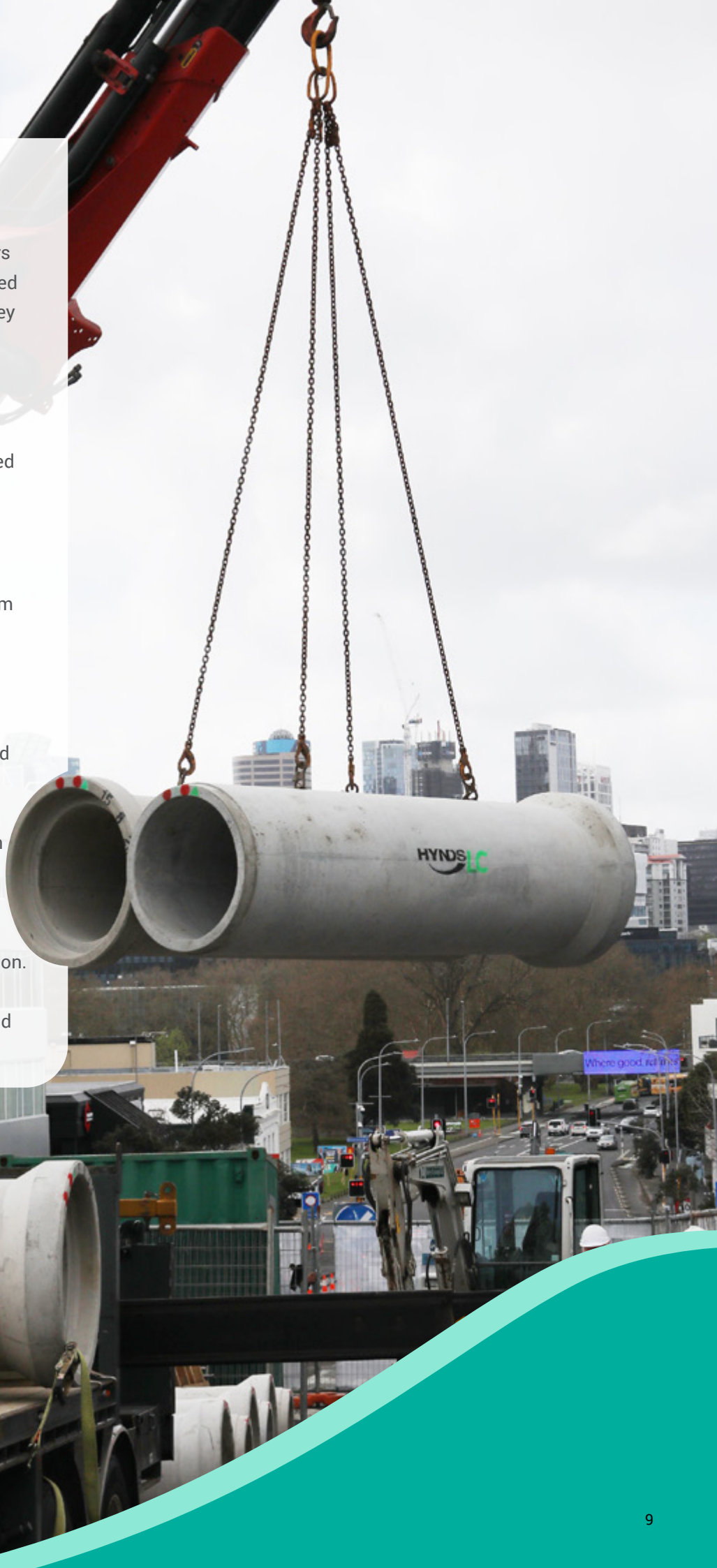




## Project Snapshot **HyndsLC®**

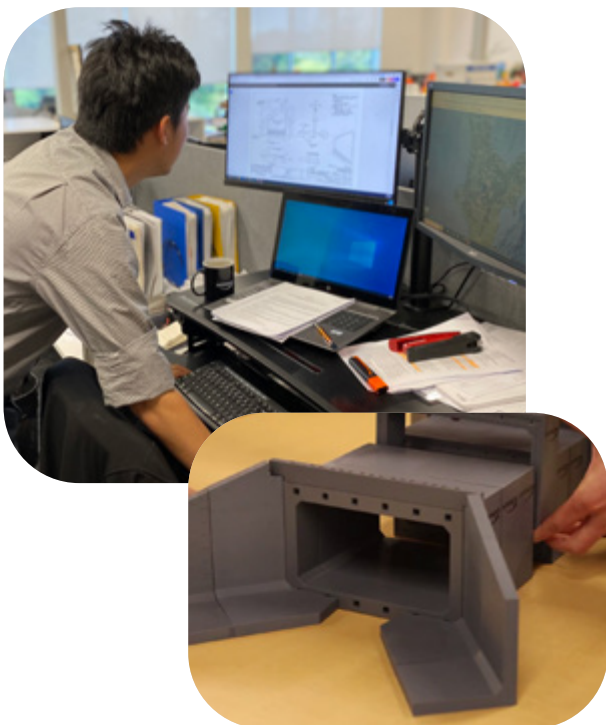
When Auckland Council contractors were excavating a partially collapsed stormwater pipe on College Hill, they uncovered a 19th century double brick lined drainage tunnel. The tunnel was constructed before the city's foreshore began at what is now Victoria Park and was damaged during the January 2023 flooding.

In choosing a replacement pipe material, the council wanted an option that would balance long-term reliability and the council's current focus of reducing their carbon footprint. Hynds proposed the use of a 600mm diameter HyndsLC® concrete pipe which has a designed service life of over 100 years and a 22% lower carbon footprint than Hynds' standard range. This option was supported by the contractor, Kerry Drainage, as there was no change in installation technique required with the lower carbon option. In choosing the HyndsLC® range, Auckland Council were able to avoid over 4.4 tons of CO<sub>2</sub>e emissions.



# Expertise in Engineered Solutions

**We produce custom and bespoke engineered solutions for complex projects and specifically engineered requirements, working alongside asset owners and consultant designers to customise solutions for multifaceted drainage and water supply requirements, as well as civil infrastructure requirements (such as retaining walls, seawalls, power poles and wharfing/marine structures).**



## **We Know New Zealand**

We've been innovating unique products and solutions to meet New Zealand's environmental requirements and quality standards for 50 years. This combines international best-practice and world class technology with local market expertise.

We partner with our global agency and technology partners to bring the best of international innovation and development to New Zealand. We design the best solutions and then source products and solutions to suit local requirements and standards through expertise, partnership and innovation.

## **Specialist Engineering and Support Team**

- Nationwide team of specialist engineers and dedicated Engineering Business Development Managers involved with every project from concept design through to installation oversight. This includes solution development and concept design, whole-of-life advice, constructability and in-operation technical support.
- Inhouse engineering design capability for full range of treatment, management and structural designs for stormwater, wastewater, rural and pump solutions.
- Fully customisable and bespoke designs to meet complex customer and project requirements.
- Operating nationally and focusing regionally, our specialist network provide support on the ground across the country.



## Perfect® Manhole

The Hynds PERFECT® Manhole System range is a revolution in manhole technology. The Hynds PERFECT® Manhole is a pre-benched manhole base with already cast-in pipeline inlet and outlets. An innovation focused on safer construction, target zero infiltration and minimised effort on site.

## Wastewater Treatment Solutions

Hynds Wastewater has a long-standing history of providing homeowners and businesses with high-quality wastewater treatment solutions engineered for reliable, long-term performance, from a single dwelling to large commercial projects. Our experienced team work alongside designers and installers to understand your specific site conditions and treatment requirements to provide suitable cost-effective treatment solutions. Leveraging our engineering expertise and exclusive access to international, advanced treatment technology from exclusive partners, we ensure you receive the optimal wastewater treatment system backed by Hynds' commitment to quality, delivery and local manufacturing excellence.

## Stormwater Retention Tank Online Calculator

Our online calculator enables access to vital product information, offers a user-friendly platform for instant selection, sizing, and performance estimation of stormwater retention tanks. Available 24/7, the tool allows users to input project-specific parameters and receive tailored recommendations for specific products, complete with dimensions, performance data and budgetary estimates.

The online calculator can identify the optimal solution for your system, adjusting parameters to see how different configurations impact performance and project specific requirements. This real-time feedback enables faster decision-making and greater confidence in the proposed solution.



# Expertise in Water

**Hynds provides water, quality and quantity solutions for residential and commercial markets. Our products offer second-to-none design, strength and proven reliability in some of the country's most demanding environments.**



## **Reliable End to End Capability**

Our high quality and robust range delivers reliable and long-life asset management – critical to pipeline integrity. We are committed to ensuring that the products and solutions we supply today are still achieving all that they need to in many decades to come.

As specialists in sourcing, importing and warehousing, we work closely with our global partners to bring

the best solutions from around the globe and make them locally available, pre-approved for use across local government jurisdictions

Our distribution network of 36 branches, including technical water teams and Hynds Water branches, provides immediate and on-call access to local stock, supporting specialist water contractors and regional maintenance contracts across New Zealand and throughout the full value chain of asset life.





## Turnkey Solutions for Any Scale

- Access to world leading and innovative high-performance products means we can provide a complete watermain package for projects of any scale, within tight timeframes.
- From full-scale infrastructure projects to small one-off jobs, our people will be involved as much (or as little) as required.
- We partner with key international suppliers through exclusive agencies to deliver innovative technologies and brands from around the world, offering practical solutions to New Zealand.
- We offer a large international lineup of products – available at short notice and including brands such as Gillies Metaltech, Hawle, Nova Siria, Ozkan, Viking Johnson, Georg Fischer, Kurimoto, Ebac Iron, Caldertech, Mueller, Singer, Pratt, Itron, Euromag and R2M.



## Unrivalled In-house Technical Expertise

- Water specialists able to provide technical assistance on pipeline design and optioneering, and cost-benefit analysis specific to project needs.
- Advice, support and training on suitability of product for application, installation guidance and adherence to specification and standards, together with estimate pricing and full solution take-off.
- Solutions for replacement or repairs, and full connection detail.
- With a sister business in Australia and a history supporting water project delivery in the Pacific Islands, our specialists bring years of regional knowledge and experience.







#### Project Snapshot


### Ōrākei Main Sewer Sinkhole

When a main sewer line collapsed in central Auckland leaving a massive sinkhole around 13 metres deep, eight million litres of raw sewerage was being released into the Waitematā Harbour each day. An immediate response was required to mitigate an environmental disaster and contractor March Cato temporarily diverted the sewer until the permanent solution could be installed.

March Cato partnered with Hynds Water, ensuring the coordination of product supply and delivery to site met the tight constraints of the project. Product was sourced from across the Hynds Group, including approximately 600 metres of 630 OD PE pipe along with 50+ bespoke fabricated PE fittings. A 630mm diameter mechanical saddle, 300mm sluice valves, 150mm air valves, plus 1000+ nuts bolts and washers were required, and a number of items were flown in from around the world. The timeframe was three weeks from start to finish and Hynds used their pool of internal and external resources to make it happen.





A large black pipe is being transported across a river using a green cable-operated bridge. The bridge has a complex system of cables and pulleys. The pipe is resting on a green metal frame. In the background, there is a dense forest of green trees. The scene is set in a natural environment with a river and a forest.

## Project Snapshot

### Kaitoke Flume Bridge

As part of a major project to future proof Wellington's raw water supply, New Zealand's first earthquake-proven seismic resilient pipeline was installed during the Kaitoke Flume Bridge construction project. The new bridge and a bulk water, bridge-mounted water transmission pipeline was commissioned to convey raw water from the main intake to the Te Mārua Water Treatment Plant, which makes up 50 per cent of the region's water supply.

The Kurimoto Seismic Resilient Ductile Iron Pipe supplied from Hynds has a proven track record, having survived some of the world's largest earthquakes. The pipe has been designed to deflect, expand and contract in a seismic event so if the bridge moves or the banks move on either side of the river, the pipe can move with it. The 133 metre long and 1.5 metre diameter pipe will carry 150 million litres of water daily.



# Expertise in Concrete Design & Manufacturing

**We are leaders in high quality precast concrete solutions tailored to meet diverse project requirements. Our commitment to innovation, sustainability and quality ensures that we remain a trusted partner for all precast concrete needs, from standard solutions to highly customised projects.**



## **Specialised Concrete Solutions and Project Delivery**

Our precast design and manufacturing engineers specialise in concrete structures and work with designers and consultants to develop fit for purpose, durable precast solutions that can be structurally designed in-house.

We offer expertise in cost efficient solutions and safety through innovative design and handling solutions, as well as expertise in

converting in-situ concrete solutions to precast for improved constructability and onsite efficiencies in time, material and labour.

Locally situated, our precast engineers can tailor a precast solution to match bespoke requirements, offering end to end project delivery from concept to installation.

## **High Volume Delivery and Customisation Specialists**

- Proven capacity for large-scale production to meet high-demand projects.
- Using semi and fully automated technology to deliver high-volume throughput to accurate tolerances alongside specialised curing technology and processes for fast turn-around.
- Specialists in handling, transportation and stacking methodology of hollow, lightweight and delicate concrete elements through to large 80 tonne precast units.
- Customisable manufacturing capabilities to suit bespoke designs including modification and customisation of standard product ranges tailored to specific project needs.
- All Hynds precast products are available in the HyndsLC® range of lower carbon concrete with carbon footprint calculation and traceability of raw materials available upon request.



## Extensive Manufacturing Capabilities

- Development and in-house batching of high durability concrete mix designs to suit varied applications and project specific requirements (fibre reinforced and low carbon).
- Comprehensive in-house capabilities for reinforcing steel design, detailing, cutting, bending and fixing, including fully automated cage fabrication for pipe and other selected product.
- Expertise in structural steel design and fabrication for cast-in and custom mould development for bespoke precast.
- Expertise in pre-stressed concrete solutions for enhanced performance and lightweight precast elements.
- Partnerships with global technology leaders to drive advancements in precast concrete technologies.
- Robust quality assurance processes and systems to ensure compliance with industry standards ISO 9001 including in-house material and product performance testing.





#### Project Snapshot

### Central Interceptor

Watercare's Central Interceptor is billed as the country's largest ever wastewater project, and a legacy investment that will ultimately help clean up Auckland's waterways. The Central Interceptor runs underground from Grey Lynn to the Māngere Wastewater Treatment Plant, transporting wastewater along close to 20 kilometres of tunnels to the plant for processing. Hynds manufactured pipes for the two link sewers, including production of 2100mm diameter pipes for the first link sewer and production of 2400mm diameter pipes for the second link sewer. Each pipe is three metres long and connects with the next one using a stainless steel collar which is embedded into the pipe with a number of anchoring points. The pipes are laid deep underground using state-of-the-art tunnel boring machines.





#### Project Snapshot

## KiwiRail Bridge 23

The upgrade of KiwiRail's Bridge 23 was part of the Wellington Metro Upgrade Programme work being undertaken during the annual network shutdown over the Christmas holiday period. To meet the challenging delivery timing, we developed unique casting methods.

What set this job apart was the tight timeframe and the sheer magnitude of the culvert units, each weighing a staggering 23 tonnes, and the wingwall sections tipped the scales at over 18 tonnes each. All reinforcing was 3D modelled to provide insight into the final products before manufacturing and to allow for input from all parties.

Collaboration between the designers, installation contractor, drafters, reinforcement, and transporter saw the project unfold seamlessly and was delivered on time and within budget.





# Expertise in PE & PP Pipe Manufacturing

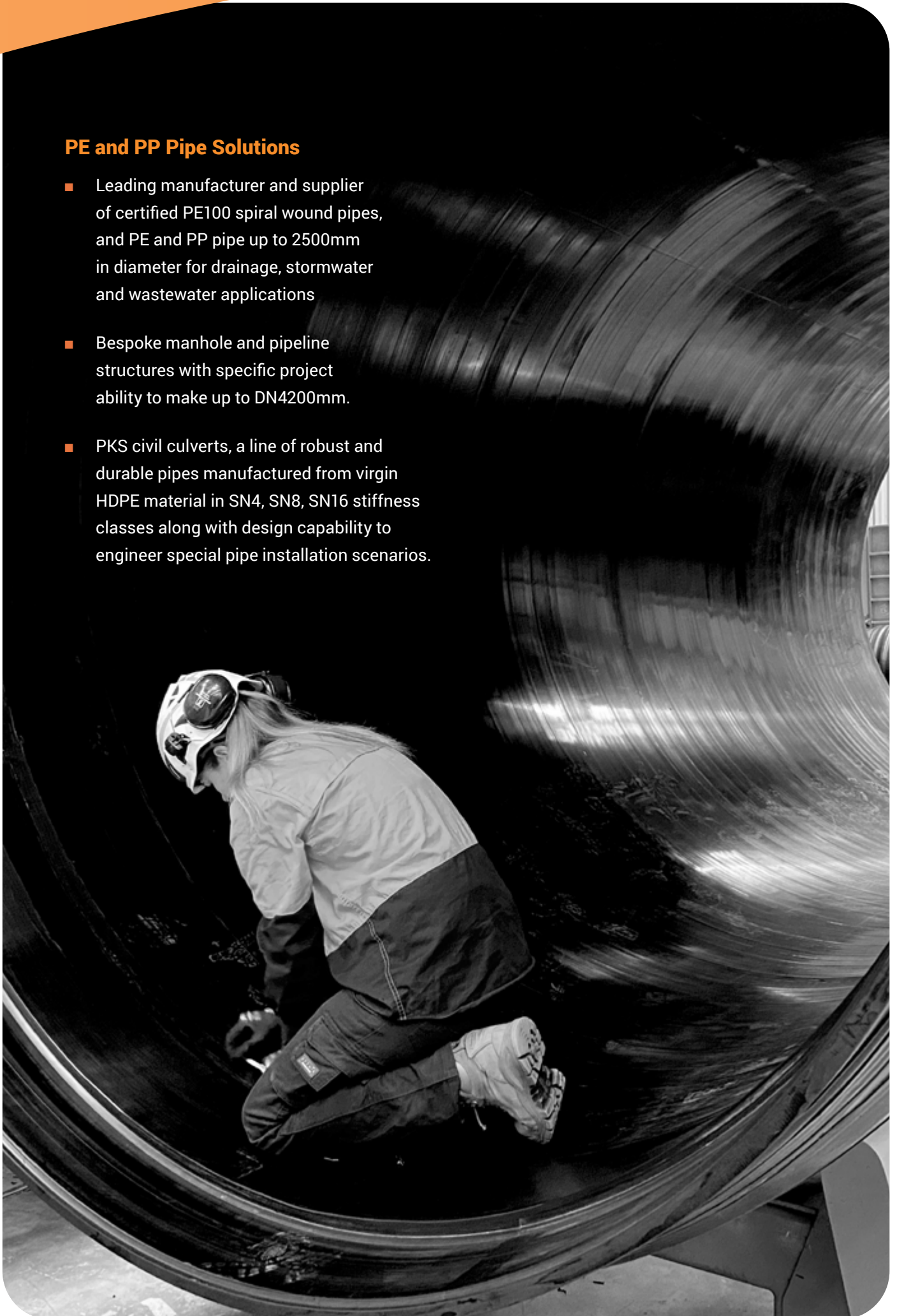
**We sustainably manufacture a specialised range of PE and PP pipe infrastructure solutions at our state-of-the-art PKS site in Christchurch. With a core focus on partnership, PKS' inhouse design and fabrication teams collaborate with design engineers, asset owners and civil contractors to deliver future-proofed PE and PP solutions for all civil needs.**





## PE and PP Pipe Solutions

- Leading manufacturer and supplier of certified PE100 spiral wound pipes, and PE and PP pipe up to 2500mm in diameter for drainage, stormwater and wastewater applications
- Bespoke manhole and pipeline structures with specific project ability to make up to DN4200mm.
- PKS civil culverts, a line of robust and durable pipes manufactured from virgin HDPE material in SN4, SN8, SN16 stiffness classes along with design capability to engineer special pipe installation scenarios.



## Industry Associations and Accreditations

More than an industry supplier, we are proud of our longstanding and industry-defining involvement across infrastructure and construction sectors. This extends to supporting key industry events, training and development initiatives, including providing our own industry training through the Hynds Water Academy, and advocacy and representation across industry organisations and standards development groups.





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Find out more about the  
**Te Pae Surf Lifesaving Tower**  
winner of the Excellence for Architectural Concrete (Monte Craven Award)



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