

An innovative gamechanger

Located in Tasmania's mid-north, the Greater Meander Irrigation Scheme is an extensive agricultural endeavour aimed at efficiently managing water resources to support agricultural activities in the region.

During the winter months, water is captured in the Meander Dam, then delivered over a 150-day period throughout the district during summer by releases into the Meander River and via pipelines along the river.

Deteriorating inlet structures

At the heart of the scheme, pump station inlet structures play a crucial role in the distribution and regulation of water flow to various agricultural fields and areas. But the efficiency and reducing capacity of many of the original structures was compromised from consistent issues with blockages and siltation. To avoid costly ongoing and complex maintenance, and to maintain service to its customers, Tasmanian Irrigation embarked on the replacement of the most badly affected units.

Innovative and durable

Working collaboratively with designers, sub-contractors and installation contractors, National Precast Master Precaster Hudson Civil provided a bespoke precast solution that would meet the client's requirements and stand the test of time.

According to the company's general manager Jason Lanham, Hudson Civil's technical specialists spent a lot of time in the lead-up working directly with Tasmanian Irrigation designers – Sub-41 – to develop a more robust solution that offered greater intake capacity, ease of maintenance and which would be able to withstand the regular floods experienced on the river system.

Factory-made

The solution incorporated the precaster's unique unculvert system, which is manufactured using specialised moulds that allow high tolerances and deliver exceptional quality. Structural steel and aluminium works were divided between the factory and onsite, with steel elements including the sub-frame fabricated and test fitted in the factory.

These simpler foundation and placement arrangements resulted in safe, accurate and efficient installation that could have never been achieved using in situ elements or poorer quality products.



Hudson Civil's unique unculvert system is a gamechanger in Tasmania's civil construction industry.

Unculverts pave the way forward

This project is an example of the Tasmanian civil construction industry using innovation and new advances in precast technology to achieve successful project outcomes. The unculvert system has many uses and is a gamechanger. So much so that Tasmanian Irrigation has now adopted this system for all its intake structure replacements and new installations, as it continues to work closely with Hudson Civil to deliver its program of capital works successfully and safely.

Precast serenity

Nestled in the charming suburb of New Farm, Brisbane, Botanic Residential stands as a boutique apartment complex, offering a chic haven of tranquillity amidst the bustling city.

With its exquisite design, lush surroundings and prime location, Botanic Residential has become a sought-after residence for those seeking a blend of sophistication, comfort and natural beauty.

Aesthetic appeal and functionality

Designed by Joe Adsett Architects, Botanic Residential boasts a stunning architectural design that seamlessly integrates with the surrounding environment. The precast concrete exterior features sleek lines, expansive windows and modern finishes, creating an elegant and contemporary aesthetic.

Meticulously designed with a focus on both luxury and functionality, use of high-quality materials was high on the architect's agenda.

Being factory-manufactured, precast was specified to achieve the desired shapes and finishes. National Precast Master

Precaster Advanced Precast was engaged to manufacture and supply over 180 precast elements for the project. Stunning 'M' and 'V' shaped wall panels and custom bright white stained, triangular-shaped façade spandrels have ensured an outstanding realisation of sleek modern external lines, while lift core panels and columns provide the functional structural core of the project.

Standout landmark

Botanic Residential in New Farm, Brisbane, is an exceptional boutique apartment complex that offers a peaceful sanctuary amidst the vibrant city life. Its exquisite design, emphasis on green spaces and luxurious apartments set it apart as a desirable residential address. With its prime location and an array of amenities, Botanic Residential provides an idyllic lifestyle for those seeking a perfect blend of urban convenience and serene surroundings.



Master Precaster Advanced Precast was engaged to manufacture and supply over 180 precast elements for Botanic Residential.



Striking V-shaped wall panels realise the project's sleek external façade.

Project

Botanic Residential

Location

New Farm, Brisbane QLD

Master Precaster

Advanced Precast

Precast staining

ECOTONE

Builder

Tomkins Commercial

Architect

Joe Adsett Architects

Engineer

EDGE Consulting Engineers