Greater Meander Irrigation Scheme

# Taming Tasmania's Heart: The Greater Meander Irrigation Scheme

**Master Precaster**
Hudson Civil

**Project**
Greater Meander Irrigation Scheme

**Location**
Tasmania

www.nationalprecast.com.au

Nestled in the heart of Tasmania, where rolling hills meet pristine waters, lies a tale of transformation, resilience, and the unyielding spirit of human endeavour. The Greater Meander Irrigation Scheme, a marvel of engineering and innovation, has breathed life into this serene landscape, turning it into an agricultural paradise that is the envy of the island.

Throughout the winter season, water is collected within the confines of the Meander Dam. Subsequently, this stored water is distributed over a span of 150 days during the summer months. This distribution occurs through controlled releases into the Meander River and a network of pipelines that run alongside the river, effectively nourishing the district.

**Replacing deteriorating inlet structures**

Pump station inlet structures assume a pivotal role in the allocation and control of water distribution to agricultural fields. However, blockages and silt accumulation can compromise their effectiveness and capacity.

The vulnerability of the inlet structures to the Meander Dam is no exception. So as to ensure uninterrupted service local clients, and in order to circumvent the need for costly and intricate ongoing maintenance, Tasmanian Irrigation set about to replace the most adversely impacted units.

HUDSON CIVIL PRODUCTS

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**Cutting-edge and long-lasting precast innovation**

In a collaborative effort with designers, sub-contractors and installation contractors, National Precast Master Precaster Hudson Civil devised a custom precast solution tailored to not only meet the client's demands but also ensure long-lasting performance.

Jason Lanham, Hudson Civil's General Manager, says the company's technical experts dedicated extensive effort early on in the project, collaborating closely with Tasmanian irrigation designers and the contactor Sub-41. Together, they meticulously crafted a more resilient solution that not only would enhance intake capacity, but which would ease maintenance and ensure resilience in the face of recurrent river system floods.

**Factory-crafted for superior quality, enhanced safety, and streamlined installation**

The solution integrated the precaster's distinctive uniculvert system, produced using specialised moulds that enable precise tolerances and ensure exceptional quality. Meanwhile, installation of the structural steel and aluminium components were strategically divided between the factory and on-site. In the factory, steel elements, including the sub-frame, were meticulously fabricated and subjected to precise testing. This approach - simplifying the foundation and placement procedures - yielded a secure, precise, and efficient installation process… an achievement that would have been unattainable with cast in-situ products.

**Uniculverts pave the path to the future**

This project exemplifies the Tasmanian civil construction industry's commitment to leveraging innovation and the latest advancements in precast technology, to attain favourable project results. The versatility and transformative capabilities of the uniculvert system are evident, to such an extent that Tasmanian Irrigation has embraced this system for all their intake structure replacements and new installations. This ongoing partnership with Hudson Civil underscores their joint commitment to executing capital works programs effectively and safely.

**Visit www.hudsoncivil.com.au,**
**for more information and advice on your next project.**

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