

# Delivering sustainable water solutions

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# Our Capabilities

## Maximising innovation and value-added solutions

The management of our water and waste water assets is a challenging task for owners and managers alike. With many water and waste water assets fast approaching the end of their life cycle, significant capital investment is often required to meet burgeoning community needs and environmental expectations.

Fulton Hogan has extensive experience constructing, augmenting and managing water and waste water infrastructure – typically through partnerships that are formed at the onset of the project.

Our customers require a highly collaborative approach, particularly around maintaining operational access, minimising stakeholder impacts and managing network shutdowns.

In supporting asset owners and managers in their quest to improve infrastructure, Fulton Hogan employs a strong team of civil, mechanical, electrical, environmental, safety, quality and commissioning experts. This is underpinned by Fulton Hogan's technical excellence and can-do attitude.

## Water & Wastewater

Fulton Hogan provides self-performing water and wastewater services for infrastructure such as:

- water supply
- wastewater and sewerage treatment plants
- desalination plants
- pump stations
- pipelines, major drainage and culverts
- mechanical and electrical installations

## Water Storage

Our integrated business model allows us to construct and upgrade water storage infrastructure to ensure a long and efficient life.

This includes:


- lagoons and tanks
- water retaining structures
- waterway improvements
- irrigation and floodways

## Services

Our in-house team of water specialists provide the following services:

- planning and design management
- construction - civil, structural, mechanical, hydraulic and electrical
- commissioning and maintenance
- services installations and relocations in both greenfield and brownfield developments
- end-to-end project and program management
- flexible delivery models ECI, design and construct, construct only, alliance, joint venture, framework and various collaborative style long term partnering models





**As a company committed to creating long-lasting relationships we enjoy sharing our knowledge and experiences to maximise innovation and value added solutions.**

## Comprehensive Services

### Maintaining a customer focus

Fulton Hogan understands the unique operational requirements and high stakeholder profile of projects undertaken on public assets, such as water and waste water infrastructure.

We work closely with our customers during the early delivery phase to ensure a quality long-term solution that will maximise asset life in a cost-effective manner. This close collaboration continues during construction to guarantee minimal operational or stakeholder disruptions and an optimal outcome.

For example, on the Goulburn-Campaspe Link Pipeline project in Victoria we worked with the customer to convert the traditional D&C contract to an Alliance to fast track the design and meet a tight delivery time-frame due to the drought and the dwindling water supply to the City of Bendigo.

### Collaborative relationships and alliances

Fulton Hogan has the experience and resources to enter into successful collaborative arrangements, both as a partner and head contractor. This is evidenced by our inclusion on to the SA Water Panel Contract as a Tier 1 constructor and subsequently securing four of the six Framework Programs brought to the market in 2016.

We have also been a lead partner in other successful alliances. As part of Melbourne Water's Pipelines Alliance we delivered sewerage and stormwater projects and as part of their Waterways Alliance to restore the health of Greater Melbourne's waterways. We are currently working on a program of works for South East Waster in Victoria for their Capital Works Program as the Principal Contractor in a D&C joint venture with Beca and Delplant.

### Safety

Working safely is Fulton Hogan's number one priority. Our Project Managers work closely with their teams, subcontractors and suppliers, engaging and promoting a positive safety culture to ensure that our excellent safety record is maintained.

The company's 'Living Safely' philosophy has evolved from our previous zero harm policy which delivered a safety performance that is reflected by recent records and FSC re-accreditation.

We understand the demands of working in hazardous environments such as confined spaces, live sewers, deep excavations and around operational assets and have dedicated specialist crews who are trained and highly experienced in the field.

### In-house specialists

Fulton Hogan has in-house water and wastewater specialists comprised of civil, mechanical, electrical and commissioning staff in roles from project management to leading hand, as well as a pool of experienced tradespeople to manage the total in-house delivery of projects.

Together with our environmental, safety and quality professionals, we work in partnership with customers to deliver value-adding solutions. The expertise of our team often brings value to clients through identifying challenges and solutions before issues even arise.

By managing the internal supply chain, we maximise value and provide safe outcomes.

### The right culture

Fulton Hogan has the resources and experience to enter into successful collaborative arrangements and joint ventures with aligned contractors and customers.

Our customers appreciate working with Fulton Hogan – an employee and family owned business which values long-term relationships. We are proud to say that Fulton Hogan's non-litigious approach has been proven during our entire history of over 85 years.

### Leaders in innovation

Fulton Hogan is committed to achieving outstanding results by going beyond convention and constantly seeking new and innovative solutions for our customers' needs. As well as cost savings, these innovations mean increased longevity and functionality of water provision and wastewater treatment assets, ultimately contributing to water conservation, mitigation of negative environmental impacts, as well as surety of supply and service provision.

### Financially stable

With annual revenue of over \$1.9 billion, assets totalling a \$1 billion and a long history of financial stability, Fulton Hogan has the strength to ensure projects are successfully delivered.

# Wastewater Treatment

Fulton Hogan has a proven track record in delivering wastewater treatment facilities, including new plants, upgrades and augmentations.

## Glenelg WWTP Inlet Screen & Pump Station, South Australia



An ECI model was selected due to the high level of risk involved in undertaking a project of this size, in an aged WWTP facility, to allow review and selection of the most appropriate equipment and construction methodology for the delivery of the work. The overall Project involved the delivery of two separable portions.

### SP1 - Glenelg WWTP Inlet Works

- Design, Supply & Installation of new Inlet Screening train
- Design, Supply & Installation of a Grit Removal and Classification system
- Design, Supply & Installation of an Odour Control plant for the new plant, as well as take-off from the existing plant

- Inspection, remediation & re-alignment of existing concrete structures
- Demolition of structures that are no longer required

### SP2 - Anderson Ave WWPS Upgrade

- Design, Supply & Installation of new pumps
- Design, Supply & Installation of new switchboards and control panels
- Supply and installation of a new overhead gantry crane, including associated building structural modifications
- Design, supply and install a dual power supply to the WWPS to improve reliability, inspection and remediation of existing structure and decommissioning of redundant equipment
- Improved access to new equipment.

## Bolivar Scraper Chains and Concrete Spall Walls, South Australia

Urgent works were required to replace the existing scraper chains in the Primary Sedimentation Tanks (PSTs) 3 and 4 at the Bolivar Waste Water Treatment Plant. This contract also included the removal of loose concrete spalls from all the PSTs. While on site to undertake the scraper chain repairs, we provided assistance to the WWTP operators when a link broke on a drive chain, which runs all the way to the bottom of the 4 metre tank.



## Mount Martha Sewer Treatment Plant, Victoria

The Inlet Works Odour Upgrade was carried out as part of an ongoing South East Water (SEW) initiative to control odour from the existing facilities at the Mount Martha Sewage Treatment Plant (STP).

The objective was to contain fugitive odour emissions from the inlet works, primary sedimentation tanks and anoxic tanks. The treatment of the odour was completed by the removal and upgrade of the existing Bio Trickling Filter (BTF) and associated ductwork.

Scope of works included:

- New Extraction ductwork including dampers from screen area channels to the new BTF
- Installation of new covers to the screen areas to achieve negative pressure
- New pipework ventilation loop for Wooralla Drive rising main loop
- New BTF with ancillary items (recirculation pump, instrumentation, nutrient dosing)
- Additional installation of Activated Carbon Filters and heater

- Inspection, testing and refurbishment of existing Bio Tower structure and remediation of damaged concrete surface
- Installation of flow measuring point
- Replacement of existing Bio Tower education fan, with upgraded replacement fan for the new required duty
- Upgrade of the existing ventilation with the main building, with additional excavation fans and ductwork

# Pipelines & Pump Stations

Fulton Hogan has over 30 years experience in pipeline and pump station construction in Australia. In that time we have worked on many complex operations involving large-diameter reticulation, outfall and trunk sewers, live sewers, rising mains, trunk water mains, stormwater drains and remediation works.



## Arthurs Lake Supply Pipeline & Hydro Power, Tasmania

Fulton Hogan's scope of work for this \$45M project included:

- Pipe intake structure in Arthurs Lake
- 28.5km 1000mm DICL pipe
- 4.5km 813mm diameter MSCL pipe
- 7.1 megawatt hydro power station
- 15km of 22kV Transmission Line & fibre optic communications cable
- Anti islanding system
- HV Switchroom

Fulton Hogan also constructed the building and connections for the hydro-electric power station, which converts power and offsets the energy demands for the distribution pumping system.



## Peninsula Eco Transfer Main, Victoria

Due to ageing, failing and poorly maintained septic tanks there was evidence of waste polluting groundwater, waterways and the environment in the region. To address this, South East Water (SEW) rolled out one of the largest pressure sewer constructions in Australian history.

The Southern Mornington Peninsula Backlog Sewerage Scheme, known as the Peninsula Early Connection Offer (Peninsula ECO) Transfer System will transfer sewage from Rye, Blairgowrie, Sorrento and Portsea (and other places) to Boneo Sewerage Treatment Plant (STP) and connect more than 16,000 properties to a new pressure sewerage network.

The design and construction of the works were carried out as part of a Fulton Hogan Delplant Beca (FHDB) consortia.

## River Road Pump Station, South Australia

This Design & Construct project consisted of a mechanical and electrical upgrade project and wet well rehabilitation to achieve a reliable level of service to customers and the efficient and effective operation of the pump station.

The works generally consisted of design, construction and commissioning of replacement pumps, pipes, valves, electrical and control and the removal of existing infrastructure from site, whilst maintaining operation of the station and rehabilitating the wet well.



# Mechanical & Electrical Installations

Fulton Hogan as a skilled team of structural, mechanical and electrical installation teams that provide flexibility on our multidisciplinary

## Metro M&E Framework, South Australia



The Metro Mechanical & Electrical Framework is inclusive of any assets that are found within both water and wastewater networks, exclusive of the water and wastewater treatment plants.

This includes pumping stations, dosing stations, control and isolation valves, electrical and controls infrastructure, large bore actuated valve replacements, switchboard and electrical infrastructure replacement on existing assets and modification to network mains.

The works predominately consists of mechanical and electrical works but may include other disciplines such as associated civil work.

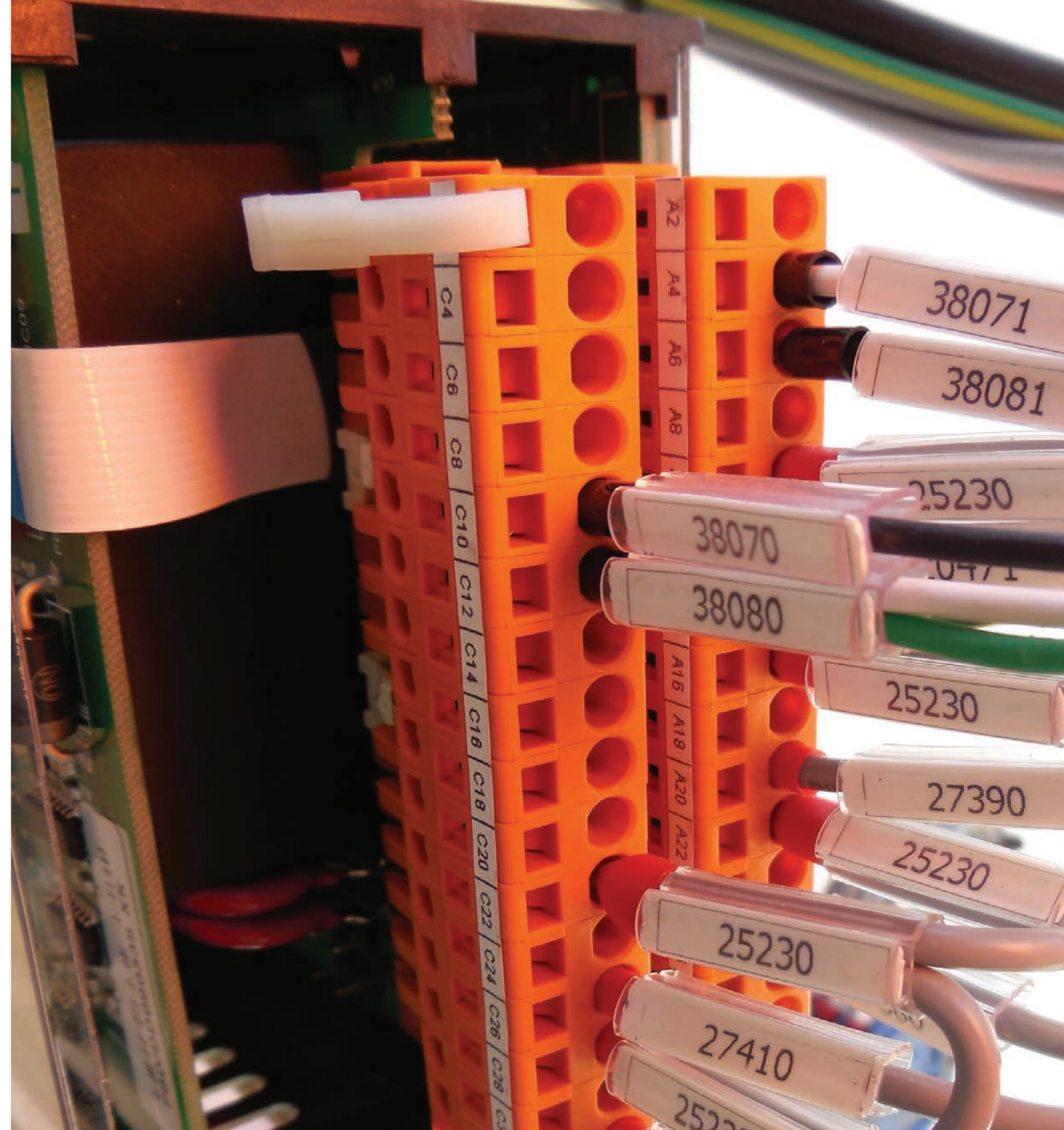
## Switchboards & General Electrical Framework, South Australia

The Switchboards and General Electrical Framework requires 260 switchboards to be designed, built and cut over on existing assets. Scope of Works includes:

Review and verification of condition assessments of the switchboard

Concept and detailed design: All civil works, SCADA, telemetry, cabling works to ensure compliance with Standards

Updating of electrical drawings to correctly reflect the current as-built asset configuration  
Installation of new enclosures for the new assets to comply with current Australian Standards, Technical Standards and Ingress Protection ratings.



## Metro Switchboards Renewal, South Australia

This D&C project covered new equipment and controls, new switchboards, instrumentation, SCADA, pumping assets and site-works at each WWPS. Works included:

- Developing the concept design and taking this to 'Issued for Construction' drawings
- Supply of switchboards
- Installation of switchboards and existing services location
- Traffic management and site security during works
- Operational liaison
- Adapting the design to site conditions

# Water Supply

From planning and design management, through procurement, construction, commissioning and maintenance, Fulton Hogan delivers water supply (including dams, storages and pipelines) facilities that meet, or more often surpass, our customers' requirements.

## Naracoorte Water Supply Upgrade, South Australia

The project was to design and construct infrastructure to provide a water supply network that supplies 100% disinfected water to customers in the Naracoorte area as part of SA Water's Country Water Quality Improvement Program (CWQIP).

disinfection upgrade works at the storage tank and Bore 9 decommissioning works.

SA Water undertook the concept design and Fulton Hogan completed detailed design before carrying out the Water Supply Upgrade system, construction of transfer main,



## Hackney & North East Roads Trunk Water Main Upgrade, South Australia

The Hackney Road Trunk Water Main, which has provided water to the Adelaide CBD for the past 90 years, runs under one of Adelaide's busiest eastern arterial roads. In July 2015, Fulton Hogan was awarded the Hackney and North East Road Trunk Water Main Renewal project by SA Water.

The Hackney Road section involved 2.2km of pipe relining, underboring and complete replacement of various sections of the pipeline. The pipe alignment ran through the East Parklands and crossed a number of cultural and state heritage sites, requiring extensive stakeholder management and employment of hydro-excavation methodologies to ensure significant trees were protected during construction. Due to the traffic flows on Hackney Road, most of the on-road works were carried out at night.

The North East Road section of the project involved over 20 cross connections from a redundant water main to a new main extending 11km from Hope Valley Reservoir to the Gilberton Pump Station along North East Road - another major arterial road with very high traffic volumes. As a result of the existing network design, some of these connections were done as a live tap, where a new connection was made onto a live and operating water main.

### Additional Packages

The Hackney Road section of works was undertaken within an area of Adelaide that was undergoing redevelopment, notably the OBahn extension, which will be a new underground busway extending under the neighbouring Parklands.

As we were already undertaking trenching along Hackney Road, both SA Water and DPTI asked us to complete two additional small packages of work to facilitate the OBahn works and upgrade the adjacent sewer main. These packages were:

A sewer main which included sewer pipe laying installation works, excavation and disposal of contaminated soil, manhole installation, tie in points and subsequent grout filling works of the redundant sections of sewer main and manholes

Telstra works which included trenching and excavation, management of contaminated spoil, coring for Telstra conduits, hydroexcavation of tree roots, vibration monitoring, and coordination with Telstra (who undertook the installation of their new conduit & cabling)

# Water Storage

Fulton Hogan provides multiple-disciplined services to various water storage facilities.

## Upper Paskeville Earth Bunded Storage, South Australia



This D&C project included:

- Design, supply, construction & commissioning of a new liner and floating cover for the No.1 Filtered Water Storage (FWS) at Upper Paskeville, and associated equipment, fixtures and fittings, including internal baffles
- Modification to the existing stormwater pump switchboard to accommodate the newly installed equipment
- Design, construction & commissioning of under drain flow measurement equipment for the No.1 and No.2 FWSs
- Supply of as-constructed information.

## Happy Valley Liner & Cover Replacement, South Australia



The project comprised fabrication and installation of approximately 22,000m<sup>2</sup> of Enviroliner and 25,000m<sup>2</sup> of CSPE cover. These were long-lead procurement items that were sourced through our subcontractor Fabtech, who also undertook the detailed design and off-site fabrication at their SA factory.



## Werribee Aquifer Storage & Recovery, Victoria

This project is part of the West Werribee Dual Water Supply Scheme. The Scheme will supply recycled water for new residential developments and irrigation of public open spaces. It involves the development of underground bulk storage in the Werribee Formation Aquifer at the Werribee Treatment Plant and/or at North Wyndham Vale to store the recycled water.

The project involved the construction of a network of pipes, pumps, valves and instrumentation required to deliver water into the below ground aquifer through five existing bores approximately 150m deep.

# Tanks

Tank upgrades and refurbishment to ensure supply in urban and rural areas.



## Minlaton & Darke Range Tank Upgrades, South Australia

Both Minlaton and Darke Range tank upgrades are projects within SA Water's Tank Framework. Due to both tanks being the primary source of fresh water for surrounding townships, roof sheeting replacement works could not be undertaken at Minlaton and Darke Range in the same way as others in the Program, which are typically completed offline by draining down the water tanks to place a EWPS (scissor lift) on the dry tank floor to elevate workers and provide roof access.

The Project Team devised an alternative method which involved keeping water in the tanks and using pontoons that floated on the water, allowing workers to reach the roof structures and perform the re-roofing works while the tanks were "online", avoiding interruption of water supply to customers, whilst ensuring there was no compromise to water quality or to worker safety.



## Morgan - Whyalla Pipeline Tanks Re-Roofing, South Australia

This project initially involved the re-roofing of two potable water supply tanks along the Morgan-Whyalla Pipeline near the town of Morgan, SA. Following these two tanks, a number of variations and additional works were awarded. These works and associated technical specification covered the design, supply, construction, testing, commissioning, defects liability and documenting of works at each site.

# Waterway improvements

Fulton Hogan's design, construction and maintenance skills also apply to improving the health of our waterways and mitigation of flooding.



## Dights Falls Weir Replacement, Victoria

The Dights Falls project involved rebuilding a 100 year old weir in the middle of the Yarra River, in addition to the construction of a complex fish ladder. Fulton Hogan's role included project planning, development, design and construction initiation of the very sensitive and prominent Dights Weir and Vertical Slot Fishway Project on Melbourne's Yarra River in Abbotsford.



## Sandgate Avenue Drain Flood Mitigation Project Stage 1, Victoria

The Sandgate Avenue Drain, Flood Mitigation project has reduced the likelihood of floods during severe storms to residential, industrial and commercial properties located within the City of Frankston main catchment area. This project has mitigated the severe economic and social impacts associated with flooding. Stage 1 of the Sandgate Avenue Drain Flood Mitigation Project involved the construction of a 1,550m long, 2.5m internal diameter tunnel, commencing upstream at the Monash University Peninsula Campus and traversing approximately west to the outlet located at Kananook Creek.



## Katfish Reach Hydrological Structures and Fish Passage, South Australia

The Katfish Reach Hydrological and Fish Passage Structures project commenced in the Riverland Region of South Australia in January 2015. The work was completed on behalf of the Department of Environment, Water and Natural Resources (DEWNR) and was managed on site by SA Water, further strengthening Fulton Hogan's relationship with this important client. It was a significant project, part of a joint Federal and

State government initiative worth in excess of \$100M, with Fulton Hogan's package being worth \$3M. This project was designed to improve the use of existing water resources in the area for the benefit of surrounding fauna and flora, improve hydrological connectivity, fish passage and general ecosystem health.

Fulton Hogan's scope was spread across five main sites on the waterway, including a series of concrete bridges, pile-supported fishway structures, causeways, culvert crossings, cattle grids and a range of general concrete structures and rock protection to control scouring of the river banks.

# Water Retaining Structures

Fulton Hogan has experience in the design, construction and maintenance of dams and retaining structures throughout Australia.



## Little Nerang Dam, Queensland

Little Nerang Dam is situated on Little Nerang Creek, a tributary of the Nerang River. Works required to upgrade the Dam Drum Gate included:

- Installation of Temporary Scaffolding Access
- Installation of scaffolding system with difficult and high access
- Installation and removal of scaffolding via vertical rope access
- Integration of environmental controls with scaffolding system
- Provided safe working area for all site personnel
- Drum Gate Fixing Works
- Drilling and installation of anchoring bolts for new chemical anchoring system
- Testing of anchoring system
- Drum Gate Protective Coating Works
- High pressure abrasive wet blasting on drum gates and existing hinges and hinge mounting plates
- Two part epoxy protective painting works
- Removal and replacement of steel work for the existing hinge cover plates system
- The minor improvement works to the spillway drum gates on the Little Nerang Dam, included temporary access construction, structural steel works to the existing drum gates, protective coating works and access road upgrade works.



## Jindabyne Dam & Spillway Upgrade, New South Wales

The project involved major upgrades to the dam and spillway to increase environmental flows into the Snowy River, as well as extensive modifications to the existing spillway, a new auxiliary spillway and new release tunnel.

## Box Hill Control Facility, Victoria

This project involved the construction of an epoxy coated 25 metre diameter x eight metres deep in-ground reinforced concrete tank and associated works, including the construction of a gravity diversion sewer, a pumping station and a rising main. It was planned that the installation of the new flow control facility would address the hydraulic deficiency of the Box Hill West Branch Sewer.



# Wetlands, Irrigation and Floodways

In alignment with Fulton Hogan's own environmental management strategy, we provide design, construction and maintenance of wetlands, irrigation and floodways to improve and protect our natural and built environments.



## Dandenong Valley Wetlands, Victoria

The Dandenong Valley Wetland (DVW) was constructed to treat stormwater from the Dandenong Creek catchment, in Melbourne's south east. The wetland's catchment is in excess of 14,500 ha and will reduce nitrogen loads into Port Phillip Bay by 28 tonnes per annum.

The project was delivered by the Waterways and Stormwater Quality Alliance, a new contracting model formed to deliver Melbourne Water's program of capital projects.

Delivery of the DVW project required the construction of a diversion weir, sedimentation pond, distribution channel, four wetland cells and return outlet connections to Dandenong Creek. The wetland was planted with 1,666,000 aquatic and terrestrial plants.

The Alliance elected to develop a design for a cut to fill balance that would not increase the risk of flooding within the Dandenong Creek Floodplain. The Alliance Design Team, in conjunction with the Project Manager consulted various groups throughout Melbourne Water to ensure all parties were appropriately engaged and all specialist advice incorporated.

The cut / fill design still resulted in 90,000 m<sup>3</sup> excess fill. The team seized the opportunity, through its involvement with the Master Plan development to negotiate the incorporation of this material into landscaping mounds around the proposed Service Centre, removing the need for off-site export, of what was essentially the poorest quality material.

A further technical complexity was how to construct a weir structure, complete with fish passage, that would allow the wetland to fill at the correct rate, without changing the existing flood characteristics of the creek. The design was adapted to include a 61m long weir straight across Dandenong Creek. This design was deemed unacceptable, due to the need to remove or flood significant areas of native vegetation. The project team overcame this challenge by instead installing a labyrinth weir. As result of the zig-zag configuration, the weir's linear footprint was reduced to 37m and minimal native vegetation was disturbed.



## Waterways Alliance, Victoria

The Waterways Alliance was formed to design, construct and maintain waterways and wetland works for Melbourne Water.

The overall objective was for waterways and stormwater quality services to improve and protect the health of the rivers, creeks and bays and enhance their environmental, economic and social values. Fulton Hogan was the Head Contractor responsible for the full scope of Alliance works but the Alliance conducted its business collaboratively, with all parties working together to achieve optimum results.

The works consisted of wetland construction, re-vegetation, weed control and waterway rehabilitation. The adoption of the Alliance model to these works resulted in significant change to how the works occurred.

Projects and allocations that made up the Waterways Alliance Program were derived from Melbourne Water's strategic objectives for waterways and stormwater quality with the long-term goal of ensuring that Melbourne's rivers

and creeks are healthy, with increased numbers of native fish, platypus and plant life. The measurable goals were:

Ten-year goal of having 50% of rivers and creeks in good or excellent condition by 2015

Long-term goal to achieve objectives for water quality in accordance with State Environment Protection Policies (SEPPs) and targets set out in the Port Phillip and Westernport Regional River Health Strategy and the Waterways Water Quality Strategy

Ten-year goal (2008 to 2018) to protect and improve water quality to significantly counteract the effects of growth in greater Melbourne by achieving a net reduction in pollutant loads for waterways in the Port Phillip and Westernport region.

For the first time an integrated program of works was developed and implemented. This resulted in a number of improvements; firstly, the time to develop and deliver projects reduced

significantly. The second major improvement was the smoothing of resources to provide consistent work for the workforce.

Throughout the Project there was a consistently high standard of environmental planning and management across the Program of Works produced an OPS result of 92.5%. The development of innovative, environmentally sustainable practices and ideas were encouraged at all levels of project delivery. The successful delivery of over 180 projects produced significant environmental and social outcomes for Melbourne Water, contributing to the improvement and protection of the health of Melbourne's rivers, creeks and bays.

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