

# What's new at Camco?...

May 2012

Welcome to the first installment for 2012 and the third edition of "What's new at Camco?..." We have had a busy start to the year with some projects continuing from 2011 and several new projects have kicked off. It is hard to believe that the first quarter of the season is behind us.

**Chris Goold, Managing Director**



Our expertise includes:

## **Civil Infrastructure Construction**

- Land divisions
- Pipelaying
- Stormwater quality
- Pumpstations
- Concrete structures
- Bulk earthworks
- Urban renewal
- Road construction
- National parks
- Tactile installation

## **Commercial Building Works**

- Internal fit outs
- Building extensions
- Large commercial buildings
- DDA compliance upgrades

## **Property Maintenance Services**

- Glazing
- Aluminium fabrication
- Roof plumbing
- Carpentry
- Paving
- Steel fabrication
- Bitumen repairs
- Fencing
- All general internal & external repairs

For further details in either division, please do not hesitate to contact our experienced & professional key personnel:

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Our client range derives from both public and private sectors & we are accredited with several Government departments including:

### **Department of Planning Transport & Infrastructure (DPTI)**

Category 4 General Building Contractor  
Category 2 Civil Work Trade Contractor  
Roads (R1) and Bridges (B1)

### **University of SA**

Category 5 Trades

### **Spotless Services Limited**

Since 2003, Camco have provided a wide range of services to Spotless in the Civil & Building industries including bitumen repairs, concreting, carpentry, plumbing, building refurbishments, brickwork, electrical, demolition, fencing and other miscellaneous maintenance works.

### **Accreditation Update**

We are pleased to report we achieved successful accreditation to ISO 14001:2004 - Environmental Management standard. Our management system also includes AS/NZS 4801:2001 Health & Safety Management and ISO 9001:2008 Quality Management. Our fully integrated system is based on the policies and procedures currently in operation within the company, as well as compliance with the appropriate legislation.

### **Prequalification Update**

We are currently awaiting successful prequalification with Programmed Maintenance Services as a preferred subcontractor. Programmed is one of Australia's leading providers of facilities management, construction and maintenance services and we are looking at expanding our client base by establishing a close long term relationship with Programmed.

We are planning to being prequalified with DPTI for Category 1 Civil and Category 3 Building along with Roads and Bridges categories R2 and B2 –stay tuned!

# What's news?...

INFRASTRUCTURE



Bulk civil works shown at 80% completion, with storage ponds in the foreground

## Thirst quencher

A botanic garden prepares to wow and educate visitors. John Satterley reports.

**B**uilding Solutions, assisted by 21 sub-contractors including civil contractor Camco, is constructing a wetland aquifer recharge and reuse facility that is expected to drought-proof the Adelaide Botanic Garden within eight years.

The garden, which opened in 1857, today covers 36 hectares in Adelaide's inner city parklands and uses about 100 megalitres of potable water each year.

Core to the project is the garden's aim to significantly scale back its reliance on the River Murray as its main source of water.

The \$8.7 million project will also educate visitors by connecting them to the wetland's ecosystem, such as the surrounding flora and fauna, and to the innovative approaches to addressing water scarcity.

Jointly funded by the South Australian and federal governments as part of the National Urban Water and Desalination Plan, the urban-constructed wetland will divert stormwater as it enters the garden, naturally filtering it through macrophyte plants before being stored in, and subsequently recovered from, an underlying aquifer.

In securing water self-sufficiency, the recharge and recovery cycle in the aquifer will be carefully controlled over the establishment phase to meet anticipated sustainable levels of recoverable water within a five-year period.

Modelling shows it will be eight years until the garden is self-sufficient in water requirements fully sourced from the aquifer recharge and recovery system.

In dry months, water recovered from the aquifer can, if necessary, be recirculated through the system to keep ponds alive and functioning.

The Adelaide and Mount Lofty Ranges Natural Resources Management Board is funding pollutant traps to improve the health of the watercourse by capturing hundreds of tonnes of organic and man-made litter and debris.

A supplementary benefit of the project is the identification, treatment and removal of 25,000 tonnes of contaminated soil from the site, which had once been used as a tram and bus depot.

This will ensure improved ground and aquifer water quality – and a richer habitat for the diversity of native animals and plants.

Camco, subcontracted to Building Solutions, removed the contaminated soil from the site and is excavating the ponds, realigning the creek, installing the pollutant traps, delivering and placing rocks (from Stonyfell Quarries) and the Kanmantoo stone used in feature components such as gabion walls.

Some 353 tonnes of rock will be used creating landscaping features.

There will also be a 6.5m-wide rock crossing and a cracked earth path – a maze of rocks a

Courtesy of Contractor Magazine, March 2012



More than 25,000 tonnes of contaminated soil was removed from the site

metre high and 900mm wide with a path of sawdust, designed as a fun and experiential area for school students.

Late last year the substructure was in place ready for construction of the built elements, landscaping and interpretation features such as the rock placements.

Project manager Mary Yeates says high groundwater levels posed a major challenge as they affected substructure piling and getting ponds to their designed levels. Work had to stop through the winter because of the potential for damage by heavy machinery to the 500mm clay lining and to wait for the groundwater to recede.

The wetland, shaped like a boomerang, occupies the south-eastern section of the garden.

### A supplementary benefit of the project is the identification, treatment and removal of 25,000 tonnes of contaminated soil from the site, which had once been used as a tram and bus depot.

There are three ponds – a funnel-shaped sedimentation pond where take-off water settles; then a macrophyte pond where contaminants are naturally filtered before being pumped to an aquifer 50m below ground. Water will then be pumped back out of the aquifer into a storage pond for use in garden irrigation.

Yeates points out that the garden has 1.5 million visitors a year and runs education programs for 50,000 school children.

"This is a unique opportunity to utilise the resources of the Botanic Garden to create a world-class education and interpretive facility associated with wetland aquifer storage and recovery," Yeates said.

It was this aspect, she adds, that won project funding even though "we are confined by space in an inner-city location".

Being a botanic garden, plants will represent a broader living collection than might normally occur in an urban constructed wetland, with seeds from rare plants throughout SA collected by seed conservation centre staff. An education zone will have amphitheatres where visitors can view plants from 3m above ground at ground level or through glass below ground to see the plants under water.

A bridge over the deep recharge pond is part of the design and will complete the vision of the garden masterplan to provide a continuous east-west access through the garden.

Siteworks began in February 2011 and will be completed in July this year. Another year will be needed to complete the education/interpretation projects and planting before the wetland opens to the public in late 2013.

### Botanic Gardens Wetlands and Interpretive Centre

Camco is currently engaged as the major subcontractor on the \$8M future Adelaide Botanic Gardens Wetlands and Interpretive Centre project.

The project has been designed to capture stormwater run-off from the First Creek, treat it via a network of gross pollutant traps and wetland pond networks, and pump it into the aquifer for future re-use as irrigation water for the gardens. The scope includes bulk earthworks, excavation and disposal of contaminated soil, gabion stone walls, concrete structures, planting and landscaping.

Camco has been engaged for its experience in handling contaminated material, detailed excavation work and careful management of sensitive environmental areas. Works are due for completion later in 2012 so watch this space!

We would like to welcome two new members to the Camco team – **David Dalle-Nogare** as Project Manager and **Marco Puz** as our System Manager.

Qualified as a Civil Engineer, David brings over 15 years project management experience to Camco's project team ranging from contracts of minor value up to contracts valued to \$20million. He also has expertise in business management including quality assurance, finance and human resource management.

Marco has experience with managing business systems including managing quality, safety and environmental management systems. Marco also brings operational and risk management experience to Camco.

We would also like to welcome our newest and youngest member to the Camco extended team – Oliver Jack Davey. Our Civil Manager, Greg Davey, together with his wife Danielle Davey brought Oliver into the world on the 2<sup>nd</sup> April 2012 – a big congratulations to the Davey family!



Piling works to support future structures

# What's on the go?...

## Adelaide Airport Bridge and Road Construction

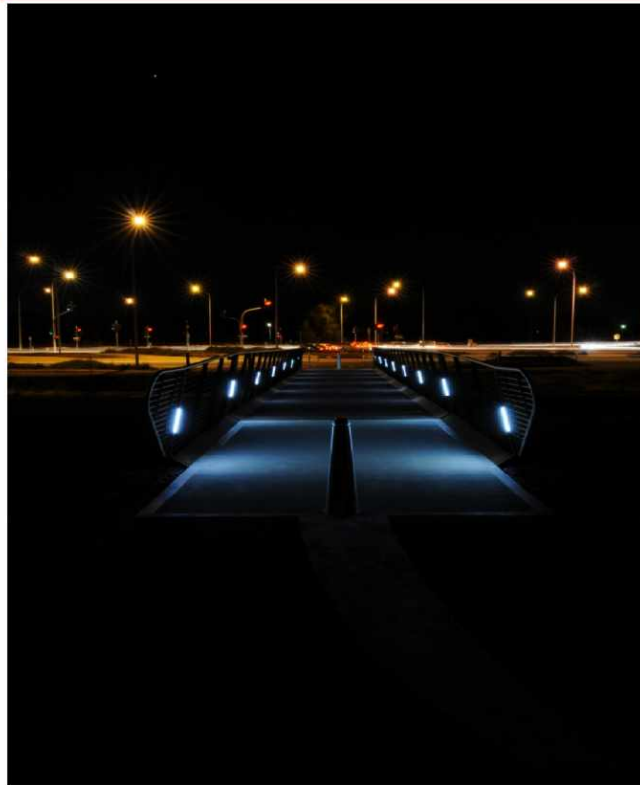
The construction of this bridge has provided the link between the vibrant commercial district in the Adelaide Airport and the pathway to West Beach.

The bridge construction was a hot dipped galvanised steel structure and webforge decking with sofffall rubber infills. The deck was supported by bored concrete piers which spanned 12m clear across the airport drain.

The photo depicts the bridge lit up at night via an intricate LED lighting network powered by an innovative solar cell system.

It is a magnificently detailed architectural bridge during the day and a landmark structure at night. It certainly makes the most of this high profile location.

Value: \$455,000 Duration: 6 weeks



## University of SA, Mawson Lakes, Forecourt Upgrade

This is the second stage of the Uni SA Mawson Lakes Forecourt upgrade which links the recently completed southern forecourt to the western and northern precincts.

The project comprised curved concrete upstand walls with exposed aggregate finish to match the southern forecourt seating, custom built outdoor furniture constructed from composite recycled plastics, feature paving bands, detailed landscaping and feature flood lighting.

The three completed sides of the main university building provide an attractive entry to the Mawson Lakes campus and a functional space to learn.

Value: \$580,000 Duration: 10 weeks



Please note our office is open from 7am to 5pm, Monday to Friday

**Camco SA Pty Ltd**

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