BRODIE WATER REUSE SCHEME – FACT SHEET

Constructed in 2010 by the City of Onkaparinga as part of stage 1 of its Water Proofing the South initiative, the $15million Brodie water reuse scheme exists within the Christie Creek catchment and services the suburbs of Woodcroft, Morphett Vale, Christies Downs and Christies Beach within the City of Onkaparinga.

Key Features and Basic Function

The scheme’s key features are urban wetlands adjacent to Brodie Road and Madeira Drive which capture and treat stormwater received from adjacent creeks.

Water from these urban wetlands is then transferred to a 93 million litre (93ML) above ground lined storage located in Wilfred Taylor Reserve, where it is kept until needed to service local irrigation demands.

A 17km pressurised pipe network distributes harvested stormwater from these locations to parks and reserves, sports fields and schools along with meeting construction, industrial and municipal demands.

The wetlands not only harvest stormwater, they provide expansive recreational green space destinations with connections to the Christie Creek lineal trail, car parking, reserves and playgrounds and local shops.

Operational parameters

The scheme has a capacity of approximately 850ML/annum from the catchment but it also has connections with the Byards Scheme, increasing it to as much as 2.6GL.

The distribution network has an operating pressure of approximately 400kpa and end users receive flow rates in the order of 6-10ltrs/sec (subject to timing).

Acknowledgements:

The success of this scheme has been recognised by a variety of industry groups including:

- Water Industry Alliance
- Australian Water Association
- Stormwater Industry Association
**FAST FACTS**

**Date completed** = December 2010  
**Constructed Value** = $15 million  
**Water Type** = Class A  
**System capacity** = 850ML/annum  
**Operating pressure** = 400kpa  
Operating flow range = 8-10lts/sec  
Suitable for open spray irrigation

**FUNDING PARTNERS**

Australian Government through its National Urban Water and Desalination Plan  
South Australian Government through the Adelaide and Mount Lofty Ranges Natural Resources Management Board and the Department for Planning and Local Government

**CONSTRUCTION PARTNERS**

Leed Engineering Pty Ltd in collaboration with:  
- GHD Engineers  
- Outerspace Landscape Architects  
- ECO Management Services and  
- Goulde Thorpe Planning

**FEATURE LOCATIONS**

Brodie wetland: east of Brodie Road, Morphett Vale  
Madeira wetland: east of Madeira Drive, Woodcroft  
Wilfred Taylor Storage, Morphett Vale

**AREAS SERVICED**

Morphett Vale, Woodcroft, Christies Beach, Christies Downs, Noarlunga Centre