
Integration of Stormwater into Innovative Sewerage Scheme at Smythesdale Project

Applicant Name: Golden Plains Shire

Project Summary:

The Project will implement stormwater and sewage management integration and reduce contaminant loads contributing to the Woody Yaloak River from the township of Smythesdale. Stormwater will be collected and treated via a series of stormwater biofiltration swales throughout the township and a wetland. Treated stormwater will then flow to the river to ensure continued environmental flows.

The Corangamite Regional Catchment Strategy (2003-2008) identified one of the biggest threats to the ongoing health of Lake Corangamite was a large amount of nutrients flowing to the lake from contributing rivers such as the Woody Yaloak (CCMA 2005). Improvement of water quality loads to Woody Yaloak River will improve the health of Lake Corangamite.

Public recreational spaces and toilet flushing facilities will be irrigated with recycled water through installation of an Innovative Sewerage Scheme. The scheme will be developed under the Victorian Water Trust Innovation Project, in partnership with the Golden Plains Shire, DSE and Central Highlands Water. The scheme will collect and treat water via a passive treatment system to provide class A + nutrient reduced recycled water for non-potable reuse purposes throughout the town. This Project provides the stormwater management element of the Innovative Sewerage Scheme.

Stormwater management and treatment will include biofiltration swales during the installation of sewage reticulation, reducing earthworks and hence costs. The Project will complement the sewage treatment facility to create an integrated total water cycle management. This will provide environmental services contributing to long-term nutrient objectives of the Corangamite Regional Catchment Strategy for the Woody Yaloak and international RAMSAR wetland, Lake Corangamite, whilst providing potable water savings in Smythesdale.

Project Costing:

Total Project Cost: \$540,000

Total Grant Funding: \$250,000

Total Water Substituted or Saved: 1.8ML per annum (Potable Water Substitution by Recycled Water and Stormwater use)

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