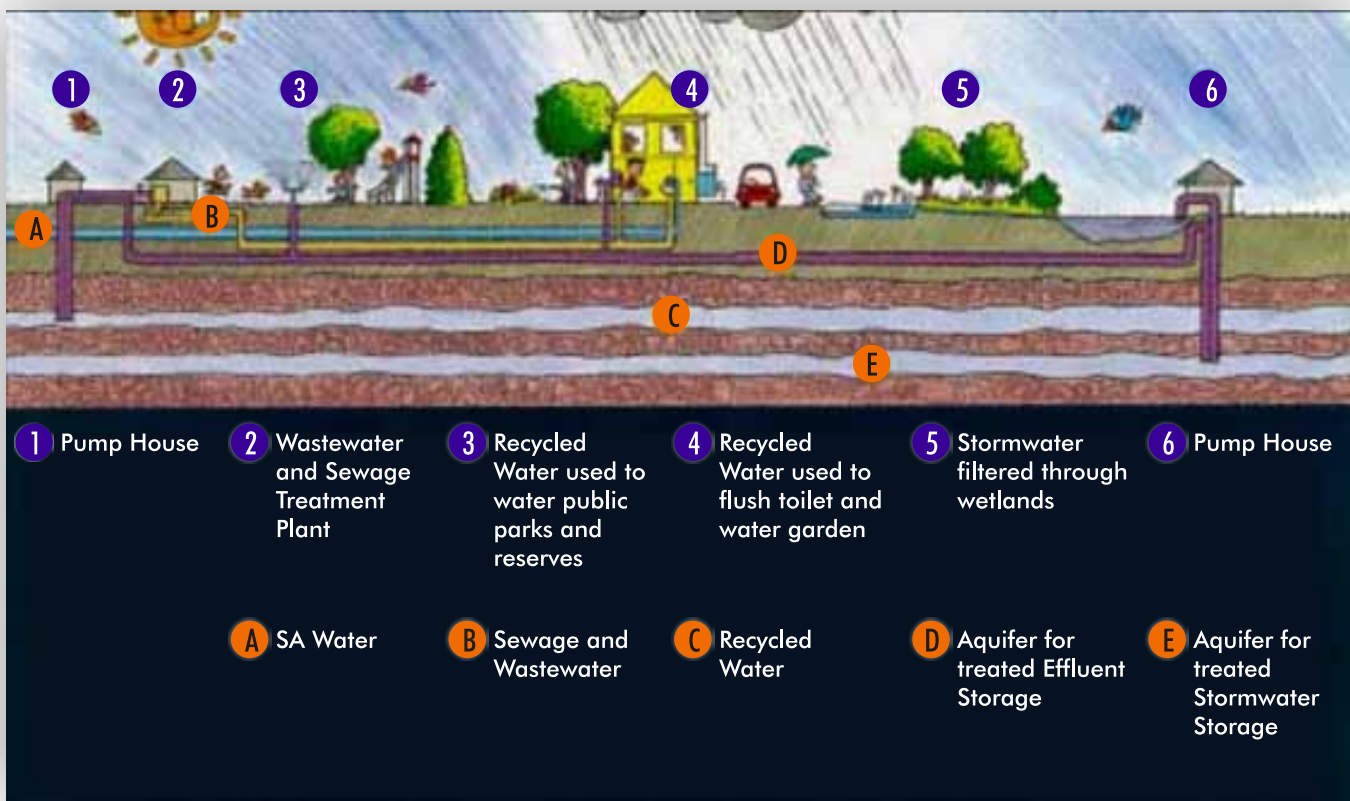


A Case Study in *Water Sensitive Urban Design: Mawson Lakes, Adelaide, Australia

Mawson Lakes lie 12 km north of Adelaide’s CBD in South Australia. The development aims to provide a model of sustainable development, balancing social, economic and conservation considerations in the urban context. Stormwater generated from impervious surfaces is treated in a series of wetlands. Wastewater is treated in an advanced treatment plant located on the development. Both the treated stormwater and wastewater is stored in groundwater aquifers for re-use. A 70% reduction in the annual consumption of mains water supply is expected. All houses have a dual supply pipe system: one conveying potable water, the second supplying non-potable water from the groundwater aquifers for toilet flushing and outdoor use. Public open space will also be irrigated with recycled water supplied from the aquifers.



The Mawson Lakes Water Management Scheme

Planning and Design Features at Mawson Lakes

- Run-off from roofs and roads is treated in wetland systems.
- Wastewater is treated on-site in an advanced water reclamation plant.
- Aquifer storage and recovery system is used for treated stormwater and wastewater.
- Treated stormwater and wastewater supply irrigation, toilet flushing and car washing needs.
- A dual pipe system is used for potable and non-potable water supply to all buildings.

* Water Sensitive Urban Design (WSUD) offers sustainable solutions for integrating land development and the natural water cycle. SuDS are a component of WSUD. Source: Water Sensitive Design in the Australian Context, conference held 30th - 31st August 2000, Melbourne, Australia. For further performance details, please refer to the following website: http://www.techpark.sa.gov.au/idx_maws.htm

