

Alternative water resources – contributions to Adelaide's water security

Mellissa Bradley, Program Manager

Murray Darling Association – Region 7 22 February 2018









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Water Sensitive SA - established to build the capacity of all organisations with a role in the planning, design, approval, construction or maintenance of new developments and infrastructure to implement best practice water sensitive urban design (WSUD)

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What we do



A hub for WSUD activity and learning in South Australia:

- WSUD policy development and implementation pathways
- networking opportunities and peer-to-peer learning on strategic, policy and technical matters
- specialist training to address key knowledge and skills gaps
- more accessible WSUD research for practitioners
- resource development, including guidelines and tools
- information sharing through our website, enewsletter, blog articles and forums.



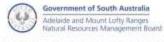
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Water Sensitive SA Program Partners





LOCAL GOVERNMENT RESEARCH & DEVELOPMENT SCHEME







































Stormwater Management Authority



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Stormwater management & re-use in Greater Adelaide



- Current initiatives
 - Managed aquifer recharge schemes
 - Wastewater re-use
 - Infiltration systems
 - Biofilters
- Our priority projects
- Opportunities for the future



Oaklands Wetland, City of Marion

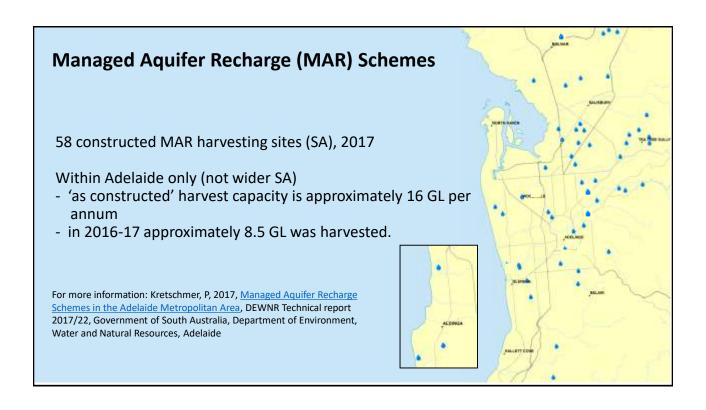
Image: Michael Mullan

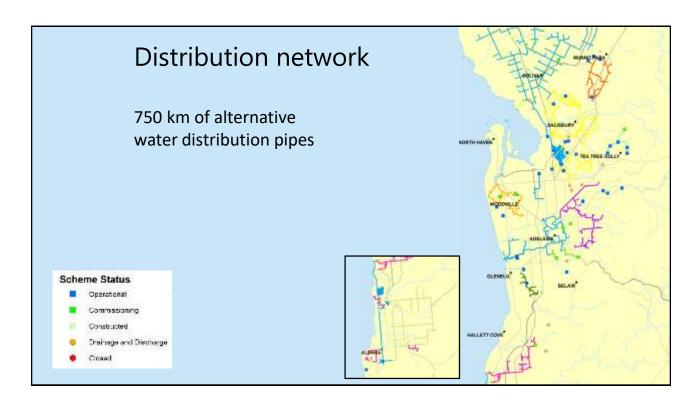
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Managed aquifer recharge (MAR)





Recycled wastewater

Recycled wastewater re-use



- Reuse 33% of recycled water (~ 35GL/yr of treated effluent)
- Main focus has been on the big things

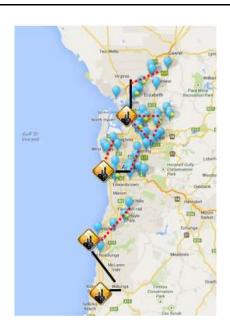




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Options for the future

- Integration of non potable sources
- Supplying water for both small and large scale reuse
- Expand distribution network





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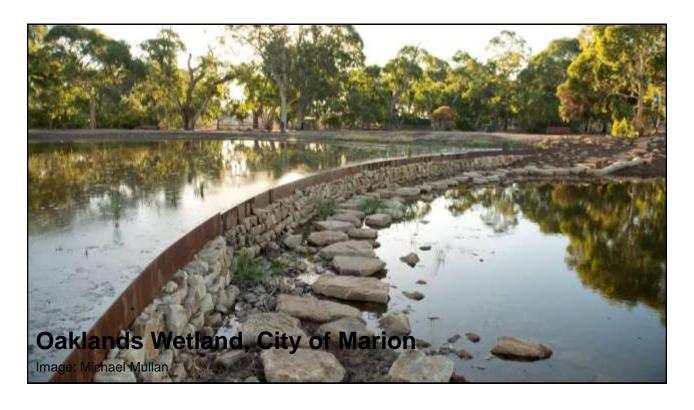
LIVEABLE WATER SENSITIVE COMMUNITIES.

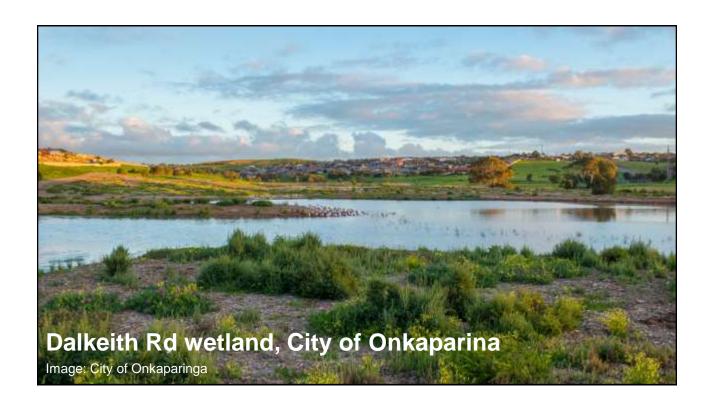
Catchment-scale WSUD systems

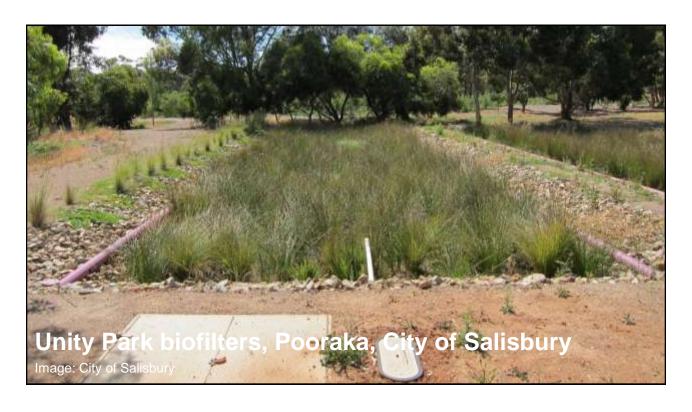




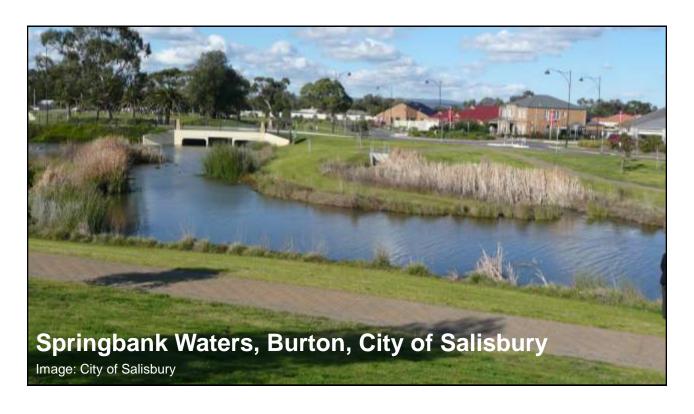














Torrens Linear Park wetland & MAR City Tea Tree Gully

Image: City of Tea Tree Gully

Streetscale WSUD systems



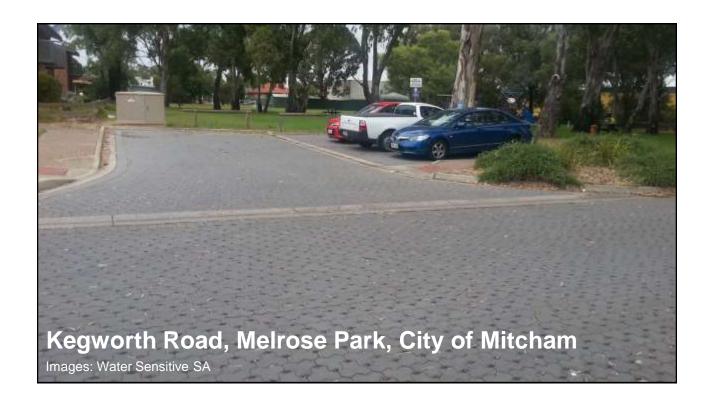


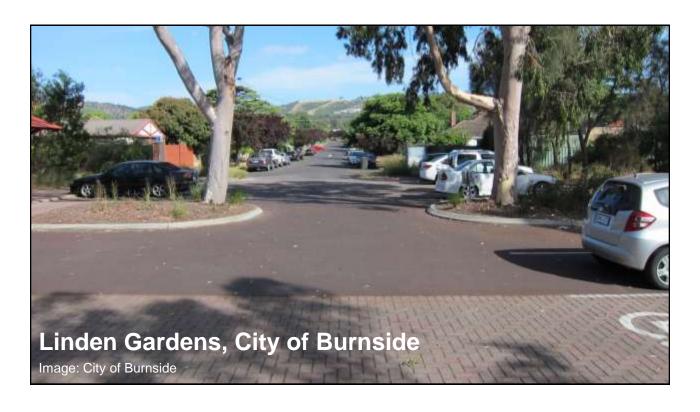




At source harvesting and re-use - Infiltration systems











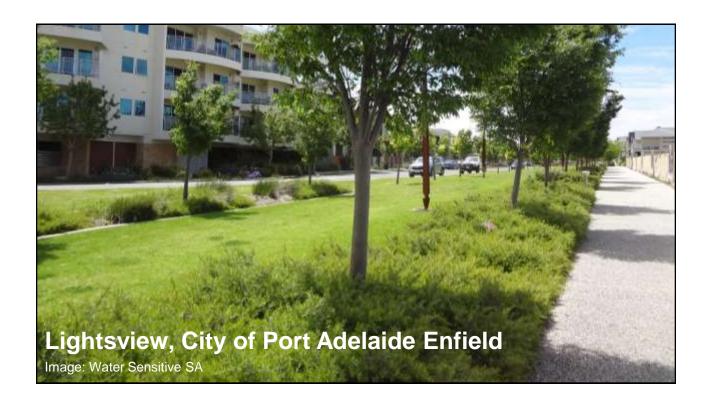


Development

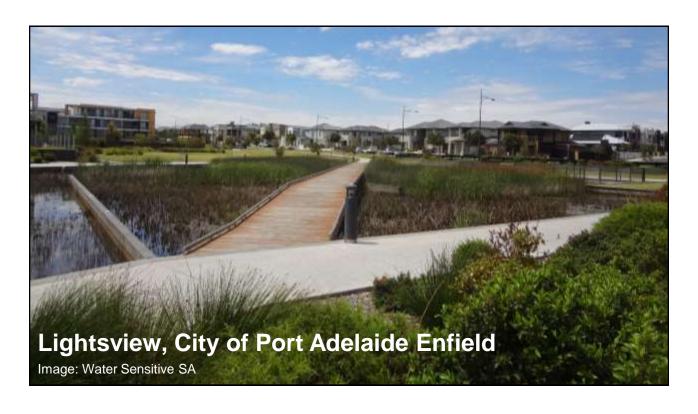


Lightsview, City of Port Adelaide Enfield

Image: Water Sensitive SA









Lightsview, City of Port Adelaide Enfield

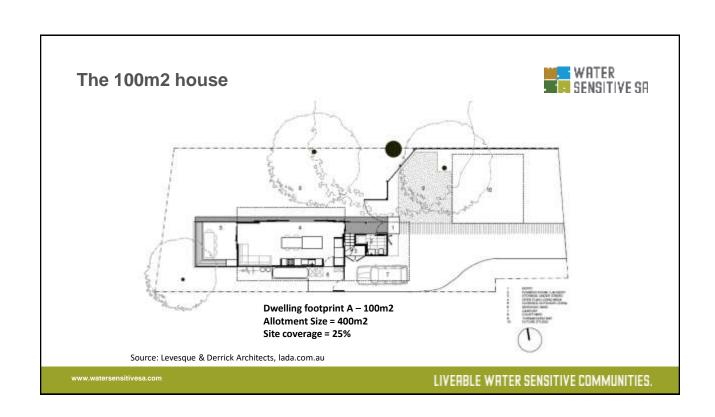
Image: Water Sensitive SA







Allotment Scale We are getting this....







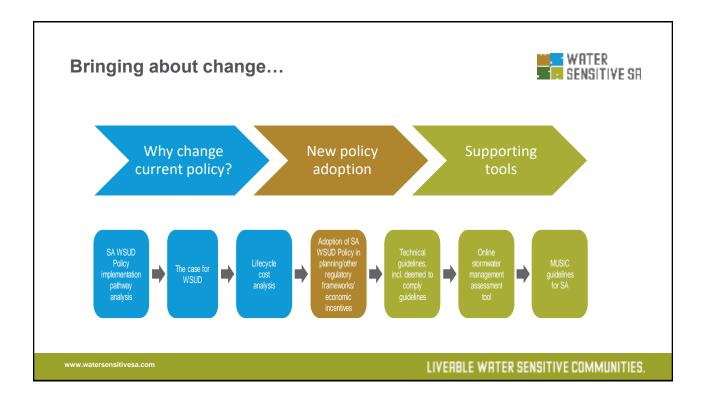
5,000L rainwater tank for:

- Toilet flushing
- Laundry
- garden

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Source: Levesque & Derrick Architects, lada.com.au







Upcoming training

13

Permeable paving & Infiltration systems

MAR 18

13 MARCH - 9:30am to 5:00pm

II

Water Sensitive SA Business Partners workshop

APR 18

11 APRIL - 9:00am to 5:00pm

Industry events

WIA: Smart Water Summit 2018

22 MARCH - 8:30am to 23 MARCH - 4:00pm

coopin

AWA: OzWater'18

08 MAY - 8:00am to 10 MAY - 5:00pm

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Further reading



A Fresh History of the Lakes: Wellington to the Murray Mouth, 1800s to 1935. By Terry Sim and Kerri Muller

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