

## Strategies for water quality improvement for Adelaide's coastal waters

Issued October 2011

*EPA 894/11: This information sheet is part of a series to support water quality improvement for Adelaide coastal waters.*

### Introduction

The Adelaide Coastal Water Quality Improvement Plan (ACWQIP) includes eight strategies which have been developed to implement all 14 recommendations of the Adelaide Coastal Waters Study (ACWS) for coastal water quality improvement. These strategies have been shaped by information gained through community and stakeholder input gathered during development of the ACWQIP. Each strategy has been designed to meet the 2030 water quality improvement targets outlined in the ACWQIP, and to achieve the community vision for Adelaide's coastal waters: 'to see the return of the blue-line of seagrass closer to shore'.

The ACWQIP is available for public comment from September to 18 November 2011. More information about the ACWQIP and how to provide comments can be accessed at [www.epa.sa.gov.au](http://www.epa.sa.gov.au).

### Strategies for implementation

- 1 Reduce nutrient, sediment and coloured dissolved organic matter discharges:
  - a EPA continue to work with SA Water and Penrice Soda Holdings to reduce nutrient and sediment loads
  - b encourage practical action for sediment reductions.
  - c encourage uptake and implementation of Water Sensitive Urban Design across Adelaide region
- 2 Promote integrated use of wastewater and stormwater across Adelaide:
  - a undertake further investigative work regarding options to facilitate greater integrated reuse of stormwater and wastewater (links to Actions 16 and 19 in Water for Good)
  - b develop pilot or regional area projects for integrated reuse of stormwater and wastewater



**Posidonia sinuosa seagrass with fruits. Photo courtesy DENR**

- 3 Further investigate sources and volumes of sediment and coloured dissolved organic matter (CDOM):
  - a further investigate sources of CDOM and sediments for catchment modelling
  - b identify practical and prioritised action that can be taken for reductions in CDOM and sediments from catchments
- 4 Integrate monitoring for cumulative impact assessment across Adelaide region:
  - a facilitate integrated monitoring of cumulative impacts and emerging issues across agencies for Adelaide's coastal waters
  - b investigate and coordinate gap and operational funding for monitoring that needs to be done to meet recommendations of ACWS.
  - c support ongoing monitoring of reef and seagrass condition to integrate with other monitoring activities
- 5 Model and evaluate the impacts of climate change, human impacts and population growth implications for Adelaide's coastal waters:
  - a information from CDOM and sediment investigations and integrated monitoring activities to be fed into future modelling work
  - b model projection of waste water treatment plant inputs and outflows as a result of population change.
- 6 Establish planning and funding priorities for water initiatives for Adelaide's coastal waters:
  - a identify priority funding areas for projects with multiple benefits (incorporate triple bottom line accounting into project planning)
  - b trial investigations for storage and re-use of water normally discharged to coast in winter months
- 7 Undertake seagrass mapping and rehabilitation work:
  - a develop and update Seagrass Ready maps that integrate water quality and sediment information
  - b further support for seagrass rehabilitation work.
- 8 Build community capacity to take action:
  - a use Healthy Waters networks and local government contacts to get messages across to community regarding how it can take action for water quality improvement
  - b further develop linkages with Kaurna and Ramindjeri people regarding community water quality messages.



**Divers in seagrass. Photo courtesy PIRSA**



**Adelaide coastline. Photo courtesy Adelaide and Mount Lofty Ranges NRM**

## References

EPA 2011, *Adelaide Coastal Water Quality Improvement Plan for public comment*, Environment Protection Authority, Adelaide.

## Useful websites

Water for Good <[www.waterforgood.sa.gov.au](http://www.waterforgood.sa.gov.au)>

WaterConnect <[www.waterconnect.sa.gov.au](http://www.waterconnect.sa.gov.au)>

Adelaide & Mt Lofty Ranges Natural Resources Management Board <[www.amlrnrm.sa.gov.au](http://www.amlrnrm.sa.gov.au)>

Department of Environment and Natural Resources <[www.environment.sa.gov.au](http://www.environment.sa.gov.au)>

SA Water <[www.sawater.com.au](http://www.sawater.com.au)>

## Disclaimer

This publication is a guide only and does not necessarily provide adequate information in relation to every situation. This publication seeks to explain your possible obligations in a helpful and accessible way. In doing so, however, some detail may not be captured. It is important, therefore, that you seek information from the EPA itself regarding your possible obligations and, where appropriate, that you seek your own legal advice.

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## Further information

### **Legislation**

Legislation may be viewed on the Internet at: <[www.legislation.sa.gov.au](http://www.legislation.sa.gov.au)>

Copies of legislation are available for purchase from:

Service SA Government Legislation Outlet	Telephone:	13 23 24
Adelaide Service SA Centre	Facsimile:	(08) 8204 1909
108 North Terrace	Website:	< <a href="http://shop.service.sa.gov.au">shop.service.sa.gov.au</a> >
Adelaide SA 5000		

### **For general information please contact:**

Environment Protection Authority	Telephone:	(08) 8204 2004
GPO Box 2607	Facsimile:	(08) 8124 4670
Adelaide SA 5001	Freecall (country):	1800 623 445
	Website:	< <a href="http://www.epa.sa.gov.au">www.epa.sa.gov.au</a> >
	Email:	< <a href="mailto:epainfo@epa.sa.gov.au">epainfo@epa.sa.gov.au</a> >

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