

2016-17 Annual Environmental Watering Priorities for the South Australian Murray Water Resource Plan Area

The information contained in this document is prepared for the purpose of complying with South Australia's obligations in respect of annual environmental watering priorities for the South Australian Murray Water Resource Plan Area, as set out in Chapter 8 of the Murray-Darling Basin Authority Basin Plan (Environmental Watering Plan).

There is little, if any, active management of environmental water in the South Australian Murray Water Resource Plan area (SAM WRP area). Surface water run-off is limited due to the flat terrain, low rainfall and highly permeable soils. The ecosystems are largely terrestrial. There are low risks to water resources due to lack of development. For these reasons, surface water resources in the SAM WRP area are not prescribed and there are no water allocation plans for surface water resources that correspond to the SAM WRP area.

In the Basin Plan, it is stated (Chapter 8, section 8.24, p65) that:

"The level of detail in annual watering priorities may vary according to local conditions, and statutory and other arrangements prevailing in the water resource plan area".

In the absence of a water allocation plan, statutory arrangements for water resource management default to the Natural Resource Management Plan for each of the three NRM Regions (i.e. South Australian Murray-Darling Basin Natural Resources Management Region; South Australian Arid Lands Natural Resources Management Region; and Northern and Yorke Natural Resources Management Region).

Within that part of the SAM WRP area located within the SA Murray-Darling Basin Natural Resources Management Region, development is limited to grazing domestic stock (either on native vegetation or introduced pasture) and cereal crops, although the development of wind farms is emerging in the northern parts of the WRP area. The main protection to the limited water resources of the SAM WRP area is the 'capping' of dam developments under the NRM Plan. This is to prevent over-harvesting of the limited surface water runoff.

The northern section of the SAM WRP area overlays the southern-most section of the South Australian Arid Lands Natural Resources Management region. This region includes some of the driest parts of South Australia. The region's environmental processes are determined by irregular rainfall and other episodic weather events that rarely follow predictable annual cycles. Thus, there are no planned environmental watering activities. The most widespread development activity is pastoralism.

Within the small, south-westerly section of the Northern and Yorke Natural Resources Management Region that overlays the SAM WRP, the land use is much the same with limited scope for active management of any water, for environmental or other purposes.

Table 1 represents the results of an assessment (undertaken in May 2013) of the requirements set out in sections 8.23 to 8.29 of the Basin Plan in relation to identifying the annual environmental watering priorities for the SAM WRP Area.

Table 1: Assessment of Annual Priorities for the SA Murray Water Resource Plan Area

Section	Summary of requirement	Req. Met?	Assessment of annual environmental watering priorities in SA Murray Water Resource Plan Area
8.23	Identify annual environmental watering priorities for surface water in each WRP area	No priorities identified	No specific priorities for environmental watering are identified as the ecosystems are largely terrestrial. Level of water resource development is low and hence risks to ecosystems are low.
8.24 (1)	Identify priorities for watering priority assets and functions	No priorities identified	As above.
8.24 (2)(a)	Identify assumptions that priorities are based on, including expected holdings and characteristics of held environmental water	Not applicable	There is no held or planned environmental water that enables active management.
8.24 (2)(b)	Identify assumptions that priorities are based on, including expected quantities of planned environmental water, and associated rules, and who manages	Not applicable	Key management is through capping of dam developments and as such there is no planned environmental water linked to priority assets.

Section	Summary of requirement	Req. Met?	Assessment of annual environmental watering priorities in SA Murray Water Resource Plan Area
8.24 (3)	Identify cooperative arrangements amongst holders or managers of environmental water and assets	Not applicable	No active environmental watering or specific delivery of environmental water occurs within the region or to connected regions, so there is no scope for cooperative arrangements.
8.24 (4)	Priorities may include a specified instrument or text as part of the priorities	Not applicable	General provisions for natural resources management are listed in the relevant NRM plans.
8.25 (1)	Must apply principles and methods in part 6 to identify annual priorities	Not applicable	The principles and method have been considered and are not relevant to the particular circumstances in this water resource plan area. It is not possible to apply environmental water.
8.25 (2)	Matters to have regard to when determining priorities	Not applicable	Regard was had to the matters listed but these are not relevant to the circumstances of this water resource plan area. As above, there is no held or planned environmental water in the area and no environmental watering schedules.
8.25 (4)	Holders of environmental water to provide information to basin states	Not applicable	Not applicable
8.25 (5)	Holders of environmental water to provide information to basin states, including use of water in other water resource plan areas	Not applicable	Not applicable

Section	Summary of requirement	Req. Met?	Assessment of annual environmental watering priorities in SA Murray Water Resource Plan Area
8.25 (6)	Annual watering priorities must be consistent with long-term watering plan	Not applicable	No long-term watering plan for the region is currently required.
8.26	Provision of annual watering priorities to MDBA by 31 May	yes	As per this document.

References

South Australian Murray-Darling Basin Natural Resources Management Board (2009) *South Australian Murray-Darling Basin Regional Natural Resources Management Plan*.

South Australian Arid Lands Natural Resources Management Board (2010) *South Australian Arid Lands Regional Natural Resources Management Plan*.

South Australian Northern and Yorke Natural Resources Management Board (2009) *South Australian Northern Yorke Regional Natural Resources Management Plan*.