

Variation to table 5.2.14 of the Seasonal Watering Plan 2022-23. Proposed amendments are shown in red.

Table 5.2.14 Potential environmental watering actions, expected watering effects and associated environmental objectives for the lower Murray wetlands.

Potential environmental watering action	Expected watering effect(s)	Environmental objective(s)
Brickworks Billabong (top- up in spring, top-ups as required over summer/autumn)	<ul> <li>Maintain water levels (target water level between 30.8 m Australian Height Datum [AHD] and 31.6 m AHD) to inundate benthic herblands including ruppia beds to provide nursery habitat for Murray hardyhead and provide high levels of aquatic productivity</li> <li>Maintain water quality suitable for Murray hardyhead</li> <li>Provide shallow-water habitat and exposed mudflats to support foraging and resting of waterbirds including migratory waterbirds</li> </ul>	*
Catfish Billabong (top-up winter/spring /summer/autumn)	<ul> <li>Fill to 33.5 m AHD to inundate fringing woodland vegetation to improve condition and recruitment</li> <li>Allow water level to draw down over summer and autumn to:         <ul> <li>promote the growth of a range of aquatic macrophytes that favour different water depth and inundation patterns, and</li> <li>provide suitable foraging conditions for wading shorebirds.</li> </ul> </li> <li>Maintain water levels above 30.8 m AHD to maintain permanent habitat for large-bodied and small-bodied native fish.</li> </ul>	
Heywood's Lake (fill in autumn)	<ul> <li>Fill to 56.8 m AHD to inundate fringing black box community to stimulate growth and flowering to improve condition and recruitment</li> <li>Provide a range of temporary open-water and shallowwater habitats to trigger the growth of various aquatic macrophytes and provide feeding and breeding opportunities for a variety of waterbirds.</li> </ul>	* 1
Koorlong Lake (fill in spring, top-ups as required)	<ul> <li>Increase and maintain the water level (target between 36.7m AHD and 38.0 m AHD) to support the growth of salineaquatic vegetation including ruppia to provide nursery habitat for Murray hardyhead and provide high levels of aquatic productivity</li> <li>Maintain water levels within a 30 cm range to provide feeding resources for shorebirds and to maintain the Murray hardyhead population</li> </ul>	~



Potential environmental watering action	Expected watering effect(s)	Environmental objective(s)
Lake Carpul (fill in spring)	Provide a range of open-water, shallow-water and emergent-vegetation habitats for water-dependent birds to support breeding and feeding opportunities	*
	<ul> <li>Inundate and wet outer fringing river red gum, black box, lignum and vegetation communities (target 52.23 m AHD) to improve their condition</li> </ul>	, rr
	Mobilise carbon and nutrients within the wetland to support wetland processes	
Lake Hawthorn (fill in spring, top-ups as required)	<ul> <li>Target water level between 33 m AHD and 33.3 m AHD to:         <ul> <li>Increase and maintain water levels to encourage the germination and growth of ruppia to provide nursery habitat for Murray hardyhead and visitation by shorebirds</li> <li>Maintain water levels within a 30 cm range to provide feeding resources for shorebirds and to maintain the Murray hardyheadpopulation</li> </ul> </li> </ul>	*
Lake Powell (fill in spring)	<ul> <li>Provide a range of open-water, shallow-water and emergent-vegetation habitats for water-dependent birds, to support breeding and feeding opportunities</li> <li>Inundate and wet fringing river red gum, black box, lignum and vegetation communities (target 51.05 m AHD) to improve their condition</li> <li>Mobilise carbon and nutrients within the wetland to support wetland processes</li> </ul>	*
Little Heywood's Lake (fill in autumn)	<ul> <li>Fill to 56.8 m AHD to inundate fringing black box community to stimulate growth and flowering to improve condition and recruitment</li> <li>Provide a range of temporary open-water shallow-water and emergent vegetation habitats to provide feeding and breeding opportunities for a variety of waterbirds</li> </ul>	* 1
Nyah Floodplain (fill in autumn)	<ul> <li>Inundate the base and littoral zone of Parnee Malloo Creek (target 63.2 m AHD) to support plant communities</li> <li>Improve the condition of vegetation communities to provide a range ofhabitats and feeding and breeding resources for birds and frogs</li> <li>Inundate the floodplain adjacent to Parnee Malloo Creek to promote the growth of herb and shrub layers</li> <li>Inundate river red gum to improve their condition</li> <li>Mobilise carbon and nutrients to promote chemical and biological processes</li> </ul>	*



Potential environmental watering action	Expected watering effect(s)	Environmental objective(s)
Robertson Creek (top-up in spring autumn)	<ul> <li>Wet fringing river red gum, black box, lignum and vegetation communities (target 30.4 m AHD) to improve their condition</li> </ul>	*
	<ul> <li>Provide lateral spread of freshwater to refresh local groundwater to support the condition of trees not directly inundated</li> </ul>	
	<ul> <li>Provide a range of open-water, shallow-water and inundated lignum habitats, to provide waterbird feeding opportunities and help protect the highly culturally significant site in the adjacent landscape</li> </ul>	
Robertson Wetland (partial fill in spring)	<ul> <li>Wet fringing river red gum, black box, lignum and vegetation communities (target 28.4 -28.8 m AHD) to improve their condition</li> </ul>	*
	<ul> <li>Inundate cane grass beds to improve their condition and resilience</li> </ul>	
	<ul> <li>Provide a range of open-water, shallow-water and inundated lignum habitat to provide waterbird feeding opportunities</li> </ul>	