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The Enter reporter's name 2020–21 report to satisfy annual reporting obligations for Basin Plan Schedule 12 and the Basin Plan Implementation Agreement

Reporting context

The matters listed in Schedule 12 of the Basin Plan relate to the objectives and outcomes against which the effectiveness of the Basin Plan will be evaluated (see section 13.05). The matters are also matters on which the MDBA, the Basin States, the Commonwealth Environmental Water Holder, and the Australian Government Department of Agriculture, Water and the Environment are required to report. Schedule 12 includes Category A matters which are subject to 5 yearly reporting and Category B matters (see Table 1) which are subject to annual reporting.

This template covers Basin State 2020-21 reporting obligations in relation to Matters 6, 10, 13, 14, and 16 and the Basin Plan Implementation Agreement (BPIA). Please refer to the notes for an explanation of why some Matters are not included in this template. The reporting period is the water year, 1 July to 30 June. The Basin Plan set the reporting day as 31 October in the calendar year that reporting periods ends. Complementary to this, the parties to the Basin Plan Implementation Agreement (BPIA) have agreed to provide by 31 October each year, annual Statements of Assurance that includes reporting of non-compliance. The statements of assurance will be signed by the relevant Secretary, Chief Executive, Director-General or, in the case of the CEWH, the CEWH itself.

Table 1. Schedule 12, Category B matters, annual reporting

#	Schedule 12 Annual Matters	Reporter			
4	The effectiveness of the management of risks to Basin water resources.	MDBA	Basin States		
5	The transition to long term average sustainable diversion limits.				Department of Agriculture, Water and the Environment
6	The extent to which local knowledge and solutions inform the implementation of the Basin Plan.	MDBA	Basin States	CEWH	
9	The identification of environmental water and the monitoring of its use.	MDBA	Basin States	CEWH	
10	The implementation of the environmental management framework (Part 4 of Chapter 8).	MDBA	Basin States	CEWH	
13	The implementation, where necessary, of the emergency response process for critical human water needs.	MDBA	Basin States		Department of Agriculture, Water and the Environment
14	The implementation of the water quality and salinity management plan, including the extent to which regard is had to the targets in Chapter 9 when making flow management decisions.	MDBA	Basin States	CEWH	
16	The implementation of water trading rules.	MDBA	Basin States		
19	Compliance with water resource plans.		Basin States		
20	The prioritisation of critical human water needs.		Basin States		
21	The accountability and transparency of arrangements for water sharing.		Basin States		

Notes:

- . Reporting for Matter 5 is reported separately by the Department of Agriculture, Water and the Environment.
- 2. Reporting for Matter 4 by Basin States is reported through Matter 10, and through the process of water resource plan accreditation.
- 3. Reporting for Matter 9 is reported separately by Basin States, Common wealth Environmental Water Holder and the MDBA, through Water Act s71 reporting, and through the Matter 9.3 reporting template.
- 4. Reporting for Matter 19 (Compliance with water resource plans) is reported separately by Basin States.
- 5. No reporting by Basin States is required for Matter 20, as confirmation that this Basin Plan requirement has been met will be via the process of water resource plan accreditation.
- 6. No reporting by Basin States is required for Matter 21, as the MDBA publishes the accreditation status of water resource plans each three months, and accredited water resource plans, on its website.

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- 7. Reporting against some BPIA tasks have been removed from the template as the tasks are complete or are reported elsewhere, or by agreement with reporters.
- 8. Schedule 12 reporting requirements in this template have been informed by the Basin Plan Schedule 12 Reporting Guidelines developed in 2015. The Basin Plan Schedule 12 Reporting Guidelines include reporting indicators which are nested under relevant Schedule 12 matters.
- 9. New guidance can be updated annually to help reporters meet reporting obligations and ensure the reporting requirements are up to date. Updated reporting guidance is currently endorsed by the Basin Officials Committee Alternates.

The Basin Plan Schedule 12 Guidelines and this information collection template are inconsistent. This template sets out the current reporting requirements. The Basin Plan Schedule 12 Guidelines will be updated and made consistent with the information collection template, when the Guidelines are updated in 2021-22.

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Reporting Matter	Reporting Requirement (Supporting evidence to be provided by Basin States)	Response
Matter 6 The extent to which local knowledge and solutions inform the implementation of the Basin Plan. Applicable to: Basin Plan Chapters 6, 8 & 10	Reporting requirement: Provide a summary of how local knowledge and solutions informed implementation of the Basin Plan. This may include: how local knowledge and solutions were used by the reporter how involving communities made a difference to Basin Plan implementation how decisions changed as a result of community involvement. This may include engagement activities related to water resource planning, First Nations participation in environmental watering, and the SDL Adjustment Mechanism. Note: case studies are not required, but may be a useful way to describe how local knowledge and solutions inform implementation of the Basin Plan.	 The EPSDD works with established groups and bodies that facilitate ongoing collaboration and input of leand planning, including: the ACT and Region Catchment Management Coordination Group, an interjurisdictional coording governance and catchment management in the ACT and surrounding regions. They are working representative on the group the Dhawura Ngunnawal Caring for Country Committee – the EPSDD meetsmonthly with a repn Ngunnawal participation and interests in water management in the ACT. In 2020/21 the Commi Water Resource Plan to better represent Ngunnawal perspectives, and provided input on the A (see below). In December 2020, the EPSDD and Icon Water facilitated an Aboriginal Waterways Assessment with mer Traditional Custodians assess the cultural health of their Country. Information from this and future wate inform water resource planning, policy and program delivery. Community groups across the ACT continue to contribute to monitoring and caring for ACT waterways. A Volunteers collected data for the Catchment Health Indicator Program (CHIP) report, which is bug surveys and 219 riparian assessments collected by more than 200 Waterwatch volunteers. Community-led initiatives funded through the ACT Environment Grants Program worked to rest The Upper Murrumbidgee Demonstration Reach partnership continued to facilitate community habitat and river health in the upper Murrumbidgee River. Further activities that increase the community's participation in managing and improving waterways in t Strategy Report Card 2021 available on the ACT Government's 'ACT Water Strategy' web page. Local knowledge and solutions were sought by the EPSDD as it investigated the feasibility of implementia 'bridge the gap' and respond to the SDLAM. The Territory's due diligence investigation ni 30.202/21 enga government that focused on SDL compliance, socio-economic impact, and implementation risks. This we stakeholders to determine investigation

Matter 6: The extent to which local knowledge and solutions inform the implementation of the Basin Plan

ocal knowledge into water resources policy
ation body committed to strengthening to include a Ngunnawal Traditional Custodian
resentative of the Committee to further ttee facilitated the updating of the ACT's CT's water efficiency measure investigations
nbers of the Ngunnawal community to help rway assessments will be used increasingly to
ctivities in 2020/21 include :
ased on 1872 water quality surveys, 184 water
ore riparian habitats. involvement in activities to promote fish
ne ACT can be found in the <u>ACT Water</u>
ng water efficiency measures as a means to ged stakeholders internal and external to rk included engaging with local experts and asociated assumptions), and identify and
hydrological modelling environment to
est industry capacity and discuss
c modelling (including key model inputs and
ne intent of the water efficiency investigations
an. In October 2021, the Water Policy team Ngunnawal interests in water management. he next review of the ACT's environmental

Reporting Matter	Reporting Requirement (Supporting evidence to be provided by Basin States)	Response
Indicator 10.1 Basin-wide environmental watering strategy, long-term watering plans and annual priorities were prepared, with the required content, published, reviewed and updated as obligated under Part 4 of Chapter 8, Divisions 2-5 Applicable to: Basin Plan Chapter 8, Part 4 BPIA Task 18.1, 19.1	 Context: Under Part 4 of Chapter 8, Division 2 Basin states are obligated to prepare, review and update long-term watering plans. Under Part 4 of Chapter, Division 3 Basin states are obligated to identify annual watering priorities and provide the annual watering priorities to the MDBA. Reporting requirement: Confirm that long-term watering plans and annual watering priorities were prepared, with the required content, published, reviewed and updated as obligated under Part 4 of Chapter 8, Divisions 2-4 If unable to confirm, please provide a statement of reasons. 	 Met ⊠ Partially met □ Not met □ Where obligations have not been met with or partially met, provide a statement of reasons. The ACT's Environmental Flow Guideline (2019) set out the operating rules for the management of enviro held environmental water within the ACT. The Guideline was developed to be consistent with the MDBA Basin-wide Environmental Watering Strat the Long-Term Environmental Watering Plan and Annual Environmental Watering Priorities. The next fix 2024. The Environmental Flow Guideline is a notifiable instrument (DI2019-190) and publicly available on the ACT Water Resource Plan sets out the policies, strategies and guidelines for meeting the requirement under Chapter 8. The WRP was accredited by the Commonwealth Water Minister on 25 June 2020.
Indicator 10.2 Watering strategies, plans and priorities are prepared consistently with Part 4 of Chapter 8, in relation to coordinating, consulting and cooperating with other reporters and the matters to which regard must be had (Chapter 8, Part 4) Applicable to: Basin Plan Chapter 8, Part 4 BPIA Task 20.1	Context: Part 4 of Chapter 8 places obligations on Basin States that relate to consultation, and other matters (including the Basin-wide watering strategy, consistency with international agreements, identification of possible cooperative arrangements) to which Basin States must have regard to when preparing long-term watering plans and annual watering priorities. Reporting requirement: Confirm that watering strategies, plans and priorities are prepared consistently with Part 4 of Chapter 8, in relation to coordinating, consulting and cooperating with other reporters, and the matters to which regard must be had. If unable to confirm, provide a statement of reasons.	 Met ⊠ Partially met □ Not met □ Where obligations have not been met with or partially met, provide a statement of reasons. Environmental water is managed based on a set of rules set out in the ACT's Environmental Flow Guidel process for developing the Guideline, meet the requirements under Chapter 8, Part 4. The ACT's Environmental Flow Guideline was revised in 2019 following a review of the ecological object flow rules for meeting those objectives. The review process, initiated in mid-2017, involved extensive core Environmental Flows Technical Advisory Group, ACT Government Steering Committee, and MDBA staff. five-yearly review of the Guideline is due in 2024. The ACT Water Resource Plan sets out the policies, strategies and guidelines for meeting the requireme under Chapter 8. The WRP was accredited by the Commonwealth Water Minister on 25 June 2020.
Indicator 10.3 Environmental watering accordance with Basin annual watering priorities Applicable to: Basin Plan s8.44 BPIA Task 20.2	Context: s8.44 of the Basin Plan requires reporting where annual watering priorities are not followed. This includes providing the MDBA a statement of reasons why environmental watering has not been undertaken in accordance with the priorities. Reporting requirement: Confirm that environmental watering was in accordance with Basin annual watering priorities. Where environmental watering was not in accordance with Basin annual watering priorities, provide a statement of reasons in accordance with s8.44 of the Basin Plan and Principle 1 of Division 6.	 Met ⊠ Partially met □ Not met □ Where environmental watering was not in accordance with Basin annual watering priorities, pro Environmental water is managed based on a set of rules set out in the ACT's Environmental Flow Guidel contributes to the outcomes set out in the Basin-wide Environmental Watering Strategy and the Basin a environmental water within the ACT. Environmental flow releases from storages are managed by Icon Water under licence WU67 in line with Water advises that compliance with the licence's targets for environmental flows was achieved in 2020/Annual Compliance Report July 2020 to June 2021). The ACT Environmental Flow Guideline; this republished in due course. The ACT Water Resource Plan sets out the policies, strategies and guidelines for meeting the requireme under Chapter 8. The WRP was accredited by the Commonwealth Water Minister on 25 June 2020.



Indicator 10.4 Demonstration of how the Basin Plan and/or the Environmental Watering Plan has influenced environmental watering outcomes. Applicable to: Basin Plan Chapter 8	Optional reporting requirement: Provide one or more case studies that demonstrate how the Basin Plan and/or the Environmental Watering Plan (Chapter 8) has influenced environmental watering outcomes. If appropriate, the case study may reference: a) the outcomes achieved b) how environmental watering principles were applied and identify the relevant principles c) environmental watering coordination and consultation process related to the Basin Plan	d) See Attachment A – Case study on flows in the upper Murrumbidgee River related to challenges for a opportunities or options to improve the Basin Plan and/or the Environmental Watering Plan.
	d) opportunities or options to improve the Basin Plan and/or the Environmental Watering Plan (Chapter 8).	

Matter 13: The implementation, where necessary, of the emergency response process for critical human water needs.

Reporting Matter	Reporting Requirement (Supporting evidence to be provided by Basin States)	Response
Matter 13 Applicable to: Basin Plan s11.05, s11.08(3) BPIA Task 26.1, 27.1, 27.2, 28.1	 13a Context: Under s11.05 of the Basin Plan BOC members have a role in advising the MDBA if a salinity and water quality trigger is reached Reporting requirement: Indicate if a water quality trigger (as per s11.05 of the Basin Plan) was reached and if so, what action was taken. 	Yes Not applicable Please indicate if a water quality trigger was reached, and what action was taken A water quality trigger was not reached for the ACT.
	 13b Context: (i) The MDBA will provide New South Wales, Victoria and South Australia with Water Resource Assessments, from which the States make decisions about allocations. Assessments will be provided at least monthly, and more frequently if conditions warrant. (ii) During periods of Tier 3 water sharing arrangements, the MDBA will provide the Ministerial Council with Water Resource Assessments, from which New South Wales, Victoria and South Australia make decisions about allocations when determining if water can be made available for uses other than critical human water. Assessments will be provided at least monthly, and more frequently if conditions warrant. (iii) A Basin State must have regard to advice from the Authority regarding the volume of water to be made available to it in a particular year, when making decisions about whether water is made available for uses other than meeting critical human water needs (s11.08(3)). (iv) The MDBA, through the preparation of the Water Resource Assessment will determine if the appropriate conditions apply. If New South Wales, Victoria or South Australia considers the triggers have been reached, its BOC member should advise the Executive Director, River Management, MDBA. The Guideline for triggers and processes for changing water sharing Tiers provides more information on how the MDBA will communicate a change 	Have the agreed agreements for Tier 2 and Tier 3 water sharing have been implemented. Yes □ No □ Not applicable ⊠ If yes provide evidence of process and action/s taken in response to a Tier 2 or 3 event. This r websites. If no, provide a statement of reasons.



Matter 14: The implementation of the water quality and salinity management plan, including the extent to which regard is had to the targets in Chapter 9 when making flow management decisions

Reporting Matter	Reporting Requirement (Supporting evidence to be provided by Basin States)	Response
Indicator 14.1 Regard had to the targets in s9.14 when managing water flows Indicator 14.2 Regard had to the targets in s9.14 when making decisions about the use of environmental water Applicable to: Basin Plan s9.14 BPIA Task 21.1	Context: Basin Plan s9.14 recognises that flow management, in some circumstances, can assist with the management of water quality issues, such as salinity, hypoxic blackwater events and blue green algae outbreaks. The intent of s9.14 is that 'having regard' to these risks and opportunities becomes part of business as usual when making decisions about flow management or the use of environmental water. Other actions that can also address water quality issues include coordination and communication about blue green algae outbreaks or hypoxic blackwater events. Reporting requirement: Describe how water quality issues were considered, when making decisions about flow management or the use of environmental water, and/or other actions; did this make a difference to these water quality issues and are there any learnings to inform adaptive management.	 Water quality is managed through a range of regulations, policies and guidelines in the ACT, including: The ACT's Environmental Protection Regulations 2005 sets out a range of water quality objective each designated environmental and use value as prescribed in the ACT's Territory Plan. A set of s also identified in the Regulations in respect to the urban lakes, the Murrumbidgee River and Bur The ACT Guidelines for Recreational Water Quality 2014 establish a framework for monitoring an high levels of faecal coliforms in Canberra's lakes and river sites where primary contact recreation National Capital Authority released their revised Lake Burley Griffin Water Quality Management guides in relation to protection of lake ecosystems, aesthetic values, recreational waters and irrit the waters of Lake Burley Griffin. The ACT Water Strategy (Striking the Balance) 2014 identifies strategies and actions that suppor The ACT's Environmental Flow Guideline protects base flows and abstraction in unregulated river releases from the water supply dams. These flows ensure that streams are generally meeting the Guideline's effectiveness for supporting the water quality targets will be conducted in 2024. The ACT Aquatic and Riparian Conservation Strategy 2018 provides guidance on the conservatio component species to maintain and improve the natural integrity of the rivers and riparian zone Salinity issues are a low risk in the ACT due to the relatively low salinity levels in waterways. Flow and sali ACT's commitment to implementing the objectives of BSM2030. Monitoring found there was an increase across all sites compared to the target levels. This reflects a broad mobilisation of salts across the landsca the above average annual rainfall and increased flows over the target time period. Detailed reporting is p Management 2020-21 Annual Status Report provided to the MDBA in October 2021. The ACT will continuquality parameters in 2021-22.

Matter 16: The implementation of water trading rules

Reporting Matter	Reporting Requirement (Supporting evidence to be provided by Basin States)	Response
Matter 16 The implementation of water trading rules. Applicable to: Basin Plan s12.37, s12.38, s12.39, s12.43, s12.46, s12.48 s12.50 BPIA Task 29.1, 30.1, 31.1, 31.2	 16a Context: Basin Plan s12.38 requires an approval authority to disclose if it has been party to a trade and publish information about the trade on its website. Reporting requirement: Provide website links to the publication of information regarding an approval authority's interest in a trade (s12.38 (2)). 16b Context: Basin Plan s12.37 requires an approval authority to disclose interest before a trade occurs. 	 16a - The Environmental Protection Authority (EPA) is the Approval Authority for water trade and take 2007. The EPA is not authorised to be party to a water trade. 16b) Not applicable – refer to 16a 16c) Inter-jurisdictional trading arrangements between the ACT and NSW have not yet been establishe with NSW to progress a Basin Plan compliant water transfer-trading framework. No restrictions on trade 16d) Not applicable. Water management arrangements within the ACT do not require water announce 16e) Not applicable. The ACT is not required to display water access rights as water trading has not been 16f) The ACT has not implemented any new trade rules. 16g) The ACT has not sold water in 2020-21.

ves and criteria related to the protection of f secondary or loading water quality criteria is ırrinjuck Reservoir.

and managing blue green algal blooms and ional activities are permitted. In 2012, the it Plan, containing recommended water quality rigation water supply that specifically targets

rt the ACT achieving water quality outcomes.

rersand requires environmental watering ne appropriate water quality targets. Review of I.

on of aquatic and riparian areas and es in the ACT within a regional context.

linity were monitored in 2020/21 as part of the e in salt load and/or concentrations recorded sape into the ACT and within the ACT due to provided within the ACT's Basin Salinity sue with monitoring of salinity and other water

within the ACT under the Water Resources Act

ed . However, the ACT Government is working de were imposed.

ements.

en established between the ACT and NSW.

Reporting requirement:

Provide documentation to support compliance with s12.37 (notice of disclosure)

16c

Context: If an approval authority decides to restrict a trade proposed trade, it must give notice of the decision and the reason for the decision to each party (Basin Plan s 12.39)

Reporting requirement:

Describe how affected parties were notified with the decision to restrict a trade and reasons for the restriction consistent with s12.39.

16d

Context: A person that makes water announcements must ensure that it is made in a manner that is generally available (Basin Plan s 12.50).

Reporting requirement:

Provide documentation that supports a compliance with s12.50 (water announcements to be made generally available).

16e

Reporting requirement: Has the Basin State made any changes to the water access rights displayed on the MDBA's Water Market products page? If so what documentation has been provided to the MDBA with the updated information as required under s12.43?

16f

Reporting requirement: Has the Basin State implemented any new trade rules that regulate the trade of tradable water access rights? If so have they provided these rules to the MDBA as required under s12.46?

16g

Reporting requirement: Has the Basin State sold water in the previous year? If so, did they notify the approval or registration authority of the price agree for the trade as required under s12.48?



Attachment A: Basin Environmental Watering Priorities (BAEWP) for reference in reporting why watering not undertaken in accordance with priorities, under Basin Plan s8.44

N/A for ACT

The table below provides a reference for exception-based reporting under BPs8.44. The table lists Basin annual environmental watering priorities for 2020-2021 and the relevant jurisdiction.

The priorities are set out as rolling, multi-year priority frameworks that cover each resource availability scenario. Basin annual environmental watering priorities are listed within these frameworks for each resource availability scenario. If conditions change across catchments within the year, the annual priorities also change. This allows environmental water managers to change strategy in response to changes in conditions in specific catchments. Further details of the priorities are located in the report 'Basin environmental watering priorities – Overview and technical summaries – June 2019 https://www.mdba.gov.au/publications/mdba-reports/basin-annual-environmental-watering-priorities

	FLOW: Rolling, multi-year priority	FLOW: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction
1 (a	FLOW: Support lateral and longitudinal connectivity along river system. (VERY DRY)	Coordinate environmental watering across sites to increase longitudinal connectivity in connected catchments.	Vic, NSW, SA, CEWH, TLM, Qld, ACT
		Mitigate irreversible environmental impacts associated with extended drought.	
		Prevent dry spell durations exceeding refuge tolerances.	
1 (!	FLOW: Support lateral and longitudinal connectivity along river system. (DRY)	Maintain natural cycles of wetting and drying.	Vic, NSW, SA, CEWH, TLM, Qld, ACT
		Where possible, maintain base low volumes at 60% of natural levels.	
		Provide replenishment flows to maintain habitat condition and regulate water quality, carbon and nutrients. Use works infrastructure to connect floodplain-wetland	
		ecosystems and manage associated risks.	
1 (0	FLOW: Support lateral and longitudinal connectivity along river system. (MODERATE)	Coordinate regulated releases with tributary flows (regulated and unregulated) to increase longitudinal connectivity in the Barwon–Darling and Murray rivers. Coordinate regulated releases with timing of tributary flow events to increase flow variability and the frequency of in-channel pulses and bankfull flow events.	Vic, NSW, SA, CEWH, TLM, Qld, ACT
		Extend the duration and magnitude, of natural events to promote the meroment of biete putrients, and marts and self	
		extend the duration and magnitude of natural events to promote the movement of blota nutrients, sediments and sait.	
1 (0	FLOW: Support lateral and longitudinal connectivity along river system. (WET)	Manage water in harmony with natural cues to maximise connectivity and flow variability to reinstate key elements of the flow regime. Provide flow regimes that allow opportunities for high ecological productivity.	Vic, NSW, SA, CEWH, TLM, Qld, ACT
		Supplement unregulated flow events to promote hydraulic diversity and facilitate natural geomorphic processes and groundwater replenishment.	
1 (6	FLOW: Support lateral and longitudinal connectivity along river system. (VERY WET)	Maximise ecological responses by adaptively managing the recession of high-flow events.	Vic, NSW, SA, CEWH, TLM, Qld, ACT
		Maximice the export of sediments, pollutants and salt	
		Mitigate water quality impacts associated with natural flood events.	
	FLOW: Rolling, multi-year priority	FLOW: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction
2 (á	FLOW: Support freshwater connectivity through the LowerLakes, Coorong and Murray Mouth. (VERY DRY)	Where possible, mitigate adverse environmental impacts associated with extended dry and drought conditions through the following priorities. Assist the maintenance of Lower Lake levels above sea level (0.4m AHD).	SA, CEWH, TLM
		Support the maintenance of suitable estuarine conditions around the barrages by managing balance between lake levels and barrage outflows (supporting by additional freshwater inflows where possible).	
		Manage water quality in the Lower Lakes with additional freshwater inflows, having regard to the Basin Plan salinity targets.	
		Where possible, provide flows to Coorong to avoid water quality exceeding tolerances of listed or threatened species.	
2 (ł	FLOW: Support freshwater connectivity through the Lower Lakes, Coorong and Murray	Manage the levels of the Lower Lakes to ensure discharge to the Coorong and Murray Mouth.	SA, CEWH, TLM
	Mouth. (DRY)	Coordinate the management of environmental water with barrage operation to apportion environmental water between sites above and below the barrages. Improve water guality in the Lower Lakes with additional freshwater inflows, having regard to the Basin Plan salinity targets.	
		Assist the maintenance of Lower Lake levels above 0.4m AHD.	
		Manage actuaring conditions around the barrages and in the Coorong's North Lagoon, Escilitate migratory fish meyoment via har rage fishways	
		Manage estuarme conditions around the barrages and in the coorong's North Lagoon. Facilitate migratory lish movement via barrage lishways.	
2 (0	FLOW: Support freshwater connectivity through the Lower Lakes, Coorong and Murray	Manage the levels of the Lower Lakes to ensure discharge to the Coorong and Murray Mouth.	SA, CEWH, TLM
		Coordinate the management of environmental water with barrage operation to increase the resilience of end- of-basin ecosystems. Supplement barrage flow events to	
		enhance salt export and maintain estuarine water quality in the Coorong's North Lagoon.	
		Provide seasonal water level variability within the Lower Lakes, and cues for migratory fish movement via flows through the barrages.	

2 (d	FLOW: Support freshwater connectivity through the Lower Lakes, Coorong and Murray	Manage the levels of the Lower Lakes to ensure discharge to the Coorong and Murray Mouth.	SA, CEWH, TLM
	Mouth. (WET)	Supplement unregulated barrage flow events to export salt from the Murray–Darling Basin and scour sediments from the Murray Mouth. Assist the maintenance and variability of Lower Lake levels to maximise ecological productivity.	
		Provide seasonal flow variability within the Lower Lakes, and cues for migratory fish movement via flows through the barrages.	
		Where possible, coordinate additional barrage flows to provide a suitable salinity gradient between the North and South lagoons.	
2 (e	FLOW: Support freshwater connectivity through the LowerLakes, Coorong and Murray	Manage the levels of the Lower Lakes to ensure discharge to the Coorong and Murray Mouth.	SA, CEWH, TLM
	Mouth. (VERY WEI)	Increase barrage flow volumes to maximise salt export and the scouring of sediment from the Murray Mouth and provision of cues for migratory fish movement. Harmonise barrage releases to provide conditions conducive to high ecological productivity in the Coorong.	
	VEGETATION: Rolling, multi-year priority	VEGETATION: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction
3 (a)	VEGETATION: Allow opportunities for growth of non-woody wetland vegetation. (VERY DRY)	Where possible limit any loss or decline in the current extent and periods of growth for non-woody wetland vegetation.	Qld, NSW, Vic, SA, CEWH, TLM
		The necessity of this priority is more critical the longer the preceding dry spell.	
		Basin significant sites: sites Non-woody wetland vegetation that form extensive stands within wetlands and low-lying floodplains – including Common reed and cumbungi in the Great Cumbung Swamp and Macquarie Marshes, water couch on the floodplains of the Macquarie and Gwydir rivers and marsh club-rush sedge lands in the Gwydir (MDBA BWS 2019).	
3 (b)	VEGETATION: Allow opportunities for growth of non-woody wetland vegetation. (DRY)	Where possible limit any loss or decline in the current extent and periods of growth for non-woody wetland vegetation.	Qld, NSW, Vic, SA, CEWH, TLM
		The necessity of this priority is more critical the longer the preceding dry spell.	
		Basin significant sites: sites Non-woody wetland vegetation that form extensive stands within wetlands and low-lying floodplains – including Common reed and cumbungi in the Great Cumbung Swamp and Macquarie Marshes, water couch on the floodplains of the Macquarie and Gwydir rivers and marsh club-rush sedge lands in the Gwydir (MDBA BWS 2019).	
3 (c)	VEGETATION: Allow opportunities for growth of non-woody wetland vegetation.	Maintain the current extent and periods of growth of non-woody wetland vegetation in line with optimal depth, duration and timing.	Qld, NSW, Vic, SA, CEWH, TLM
	NODERALE)	Where possible provide opportunities for nonwoody vegetation to create a seed bank in the soil. The necessity of this priority is more critical the longer the preceding dry spell.	
		Basin significant sites: sites Non-woody wetland vegetation that form extensive stands within wetlands and low-lying floodplains – including Common reed and cumbungi in the Great Cumbung Swamp and Macquarie Marshes, water couch on the floodplains of the Macquarie and Gwydir rivers and marsh club-rush sedge lands in the Gwydir (MDBA BWS 2019).	
3 (d)	VEGETATION: Allow opportunities for growth of non-woody wetland vegetation. (WET)	Maintain the current extent and periods of increased growth of nonwoody wetland vegetation in line with optimal, depth, duration and timing.	Qld, NSW, Vic, SA, CEWH, TLM
		Provide opportunities for non-woody vegetation to create a seed bank in the soil.	
		The necessity of this priority is more critical the longer the preceding dry spell.	
		If periods of growth occurred in the previous year, consolidate the growth of new and existing plants.	
		Basin significant sites: sites Non-woody wetland vegetation that form extensive stands within wetlands and low-lying floodplains – including Common reed and cumbungi in the Great Cumbung Swamp and Macquarie Marshes, water couch on the floodplains of the Macquarie and Gwydir rivers and marsh club-rush sedge lands in the Gwydir (MDBA BWS 2019).	
3 (e)	VEGETATION: Allow opportunities for growth of non-woody wetland vegetation. (VERY	Maintain and improve (where possible) the current extent and periods of increased growth of nonwoody wetland vegetation in line with optimal, depth, duration and timing.	Qld, NSW, Vic, SA, CEWH, TLM
		Ensure there are opportunities for nonwoody vegetation to create a seed bank in the soil.	
		The necessity of this priority is more critical the longer the preceding dry spell.	
		If periods of growth occurred in the previous year, consolidate the growth of new and existing plants.	
		Basin significant sites: sites Non-woody wetland vegetation that form extensive stands within wetlands and low-lying floodplains – including Common reed and cumbungi in the Great Cumbung Swamp and Macquarie Marshes, water couch on the floodplains of the Macquarie and Gwydir rivers and marsh club-rush sedge lands in the Gwydir (MDBA BWS 2019).	
	VEGETATION: Rolling, multi-year priority	VEGETATION: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction
4 (a)	fringes or occurs within main river corridors. (VERY DRY)	Where possible limit any loss or decline in the current extent and periods of growth for non-woody riparian vegetation.	Qia, NSW, Vic, ACI, SA, CEWH, TLM
		The necessity of this priority is more critical the longer the preceding dry spell.	
		Basin significant sites: The MDBA may identify locations and regions based on monitoring, state annual environmental watering priorities, state long-term watering plans, vegetation monitoring outcomes and the Basin-wide environmental watering strategy, to name a few. Areas of non-woody vegetation that closely fringes main river corridors	
		or occur within the main river corridors include (MDBA BWS 2019): Paroo River, Warrego – Warrego, Langlo, Ward and Nive Rivers, Nebine – Nebine Creek, Condamine-	

			Balonne – Condamine, Balonne, Birrie, Bokhara, Culgoa, Maranoa, Merivale and Narran Rivers, Moonie – Moonie River, Border Rivers – Barwon, Dumaresq, Macintyre rivers and Macintyre Brook, Gwydir – Gwydir River, Namoi – Namoi River, Macquarie-Castlereagh – Bogan, Castlereagh, Macquarie and Talbragar rivers, Barwon-Darling – Darling River, Lachlan – Lachlan River and Willandra Creek, Murrumbidgee – Murrumbidgee River, Billabong and Yanco creeks, Lower Darling – Darling River, Great Darling Anabranch and Talywalka Anabranch, Ovens – Ovens River, Goulburn-Broken – Broken Creek and Broken and Goulburn rivers, Campaspe – Campaspe River, Loddon – Loddon River, Murray – Murray, Edward, Kiewa, Mitta Mitta, Niemur and Wakool rivers and Tuppal Creek, Wimmera-Avoca – Avoca, Avon, Richardson and Wimmera rivers.	
4 ((b) \ f	VEGETATION: Allow opportunities for growth of non-woody riparian vegetation that closely fringes or occurs within main river corridors. (DRY)	Where possible limit any loss or decline in the current extent and periods of growth for non-woody riparian vegetation.	Qld, NSW, Vic, ACT, SA, CEWH, TLM
			The necessity of this priority is more critical the longer the preceding dry spell.	
			Maintain the current extent and periods of growth of non-woody riparian vegetation in line with optimal depth, duration and timing. Where possible provide opportunities for nonwoody vegetation to create a seed bank in the soil. The necessity of this priority is more critical the longer the preceding dry spell.	
			Basin significant sites: The MDBA may identify locations and regions based on monitoring, state annual environmental watering priorities, state long-term watering plans, vegetation monitoring outcomes and the Basin-wide environmental watering strategy, to name a few. Areas of non-woody vegetation that closely fringes main river corridors or occur within the main river corridors include (MDBA BWS 2019): Paroo River, Warrego – Warrego, Langlo, Ward and Nive Rivers, Nebine – Nebine Creek, Condamine-Balonne – Condamine, Balonne, Birrie, Bokhara, Culgoa, Maranoa, Merivale and Narran Rivers, Moonie – Moonie River, Border Rivers – Barwon, Dumaresq, Macintyre rivers and Macintyre Brook, Gwydir – Gwydir River, Namoi – Namoi River, Macquarie-Castlereagh – Bogan, Castlereagh, Macquarie and Talbragar rivers, Barwon-Darling – Darling River, Lachlan – Lachlan River and Willandra Creek, Murrumbidgee – Murrumbidgee River, Billabong and Yanco creeks, Lower Darling – Darling River, Great Darling Anabranch and Talywalka Anabranch, Ovens – Ovens River, Goulburn-Broken – Broken Creek and Broken and Goulburn rivers, Campaspe – Campaspe River, Loddon – Loddon River, Murray – Murray, Edward, Kiewa, Mitta Mitta, Niemur and Wakool rivers and Tuppal Creek, Wimmera-Avoca – Avoca, Avon, Richardson and Wimmera rivers.	
4 ((c) \ f	VEGETATION: Allow opportunities for growth of non-woody riparian vegetation that closely fringes or occurs within main river corridors.(MODERATE)	Maintain the current extent and periods of growth of non-woody riparian vegetation in line with optimal depth, duration and timing.	Qld, NSW, Vic, ACT, SA, CEWH, TLM
	ſ		Where possible provide opportunities for nonwoody vegetation to create a seed bank in the soil.	
			The necessity of this priority is more critical the longer the preceding dry spell.	
			Basin significant sites: The MDBA may identify locations and regions based on monitoring, state annual environmental watering priorities, state long-term watering plans, vegetation monitoring outcomes and the Basin-wide environmental watering strategy, to name a few. Areas of non-woody vegetation that closely fringes main river corridors or occur within the main river corridors include (MDBA BWS 2019): Paroo River, Warrego – Warrego, Langlo, Ward and Nive Rivers, Nebine – Nebine Creek, Condamine-Balonne – Condamine, Balonne, Birrie, Bokhara, Culgoa, Maranoa, Merivale and Narran Rivers, Moonie – Moonie River, Border Rivers – Barwon, Dumaresq, Macintyre rivers and Macintyre Brook, Gwydir – Gwydir River, Namoi – Namoi River, Macquarie-Castlereagh – Bogan, Castlereagh, Macquarie and Talbragar rivers, Barwon-Darling – Darling River, Lachlan – Lachlan River and Willandra Creek, Murrumbidgee – Murrumbidgee River, Billabong and Yanco creeks, Lower Darling – Darling River, Great Darling Anabranch and Talywalka Anabranch, Ovens – Ovens River, Goulburn-Broken – Broken Creek and Broken and Goulburn rivers, Campaspe – Campaspe River, Loddon – Loddon River, Murray – Murray, Edward, Kiewa, Mitta Mitta, Niemur and Wakool rivers and Tuppal Creek, Wimmera-Avoca – Avoca, Avon, Richardson and Wimmera rivers.	
4 ((d) \ f	VEGETATION: Allow opportunities for growth of non-woody riparian vegetation that closely fringes or occurs within main river corridors. (WET)	Maintain the current extent and periods of increased growth of nonwoody riparian vegetation in line with optimal, depth, duration and timing. Where possible provide opportunities for nonwoody vegetation to create a seed bank in the soil.	Qld, NSW, Vic, ACT, SA, CEWH, TLM
			The necessity of this priority is more critical the longer the preceding dry spell.	
			If periods of growth occurred in the previous year, consolidate the growth of new and existing plants.	
			Basin significant sites: The MDBA may identify locations and regions based on monitoring, state annual environmental watering priorities, state long-term watering plans, vegetation monitoring outcomes and the Basin-wide environmental watering strategy, to name a few. Areas of non-woody vegetation that closely fringes main river corridors or occur within the main river corridors include (MDBA BWS 2019): Paroo River, Warrego – Warrego, Langlo, Ward and Nive Rivers, Nebine – Nebine Creek, Condamine-Balonne – Condamine, Balonne, Birrie, Bokhara, Culgoa, Maranoa, Merivale and Narran Rivers, Moonie – Moonie River, Border Rivers – Barwon, Dumaresq, Macintyre rivers and Macintyre Brook, Gwydir – Gwydir River, Namoi – Namoi River, Macquarie-Castlereagh – Bogan, Castlereagh, Macquarie and Talbragar rivers, Barwon-Darling – Darling River, Lachlan – Lachlan River and Willandra Creek, Murrumbidgee – Murrumbidgee River, Billabong and Yanco creeks, Lower Darling – Darling River, Great Darling Anabranch and Talywalka Anabranch, Ovens – Ovens River, Goulburn-Broken – Broken Creek and Broken and Goulburn rivers, Campaspe – Campaspe River, Loddon – Loddon River, Murray – Murray, Edward, Kiewa, Mitta Mitta, Niemur and Wakool rivers and Tuppal Creek, Wimmera-Avoca – Avoca, Avon, Richardson and Wimmera rivers.	
4 ((e) \ f	VEGETATION: Allow opportunities for growth of non-woody riparian vegetation that closely fringes or occurs within main river corridors. (VERY WET)	Maintain and improve (where possible) the current extent and periods of increased growth of non-woody riparian vegetation in line with optimal, depth, duration and timing.	Qld, NSW, Vic, ACT, SA, CEWH, TLM
			Where possible provide opportunities for nonwoody vegetation to create a seed bank in the soil.	
			The necessity of this priority is more critical the longer the preceding dry spell.	
			If periods of growth occurred in the previous year, consolidate the growth of new and existing plants.	
			Basin significant sites: The MDBA may identify locations and regions based on monitoring, state annual environmental watering priorities, state long-term watering plans, vegetation monitoring outcomes and the Basin-wide environmental watering strategy, to name a few. Areas of non-woody vegetation that closely fringes main river corridors	
			or occur within the main river corridors include (MDBA BWS 2019): Paroo River, Warrego – Warrego, Langlo, Ward and Nive Rivers, Nebine – Nebine Creek, Condamine-	
			and Macintyre Brook, Gwydir – Gwydir River, Namoi – Namoi River, Macquarie-Castlereagh – Bogan, Castlereagh, Macquarie and Talbragar rivers, Barwon-Darling – Darling	
			River, Lachlan – Lachlan River and Willandra Creek, Murrumbidgee – Murrumbidgee River, Billabong and Yanco creeks, Lower Darling – Darling River, Great Darling Anabranch	

		and Talywalka Anabranch, Ovens – Ovens River, Goulburn-Broken – Broken Creek and Broken and Goulburn rivers, Campaspe Murray – Murray, Edward, Kiewa, Mitta Mitta, Niemur and Wakool rivers and Tuppal Creek, Wimmera-Avoca – Avoca, Avon, Richardson a
	VEGETATION: Rolling, multi-year priority	VEGETATION: Basin annual environmental watering priorities 2020-2021
5 (a)	VEGETATION: Maintain the extent, improve the condition and promote recruitment of forests and woodlands. (VERY DRY)	Identify critical river red gum, black box and coolibah communities to maintain condition or where saplings require water to survive. When to these areas.
		This priority is dependent on the target species and is more critical the longer the preceding dry spell.
		Basin significant sites: The MDBA may identify locations/regions based on state annual environmental watering priorities, state long-terr vegetation monitoring outcomes, Basin-wide environmental watering strategy, to name a few.
5 (b)	VEGETATION: Maintain the extent, improve the condition and promote recruitment of forests and woodlands. (DRY)	Identify important river red gum, black box and coolibah communities to maintain condition or where saplings require water to survive. New ater to these areas.
		This priority is dependent on the target species and the condition of new recruits and is more critical the longer the preceding dry spell.
		Basin significant sites: The MDBA may identify locations/regions based on state annual environmental watering priorities, state long-term vegetation monitoring outcomes, Basin-wide environmental watering strategy, to name a few.
5 (c)	VEGETATION: Maintain the extent, improve the condition and promote recruitment	Promote growth and improve condition of desirable river red gum, black box or coolibah recruitment, where possible, to ensure their survival.
	of forests and woodlands. (MODERALE)	Target low-lying river red gum, black box and coolibah communities adjacent to rivers where water can be delivered to promote growth a
		Basin significant sites: The MDBA may identify locations/regions based on state annual environmental watering priorities, state long-tern vegetation monitoring outcomes, Basin-wide environmental watering strategy, to name a few.
5 (d)	VEGETATION: Maintain the extent, improve the condition and promote recruitment of	Inundate in line with optimal duration, timing and depth to support desirable recruitment and improve condition of river red gum,
	forests and woodlands. (WEI)	Basin significant sites: The MDBA may identify locations/regions based on state annual environmental watering priorities, state long-tern vegetation monitoring outcomes, Basin-wide environmental watering strategy, to name a few.
F (a)		
5 (e)	of forests and woodlands. (VERY WET)	coolibah communities.
		Basin significant sites: The MDBA may identify locations/regions based on state annual environmental watering priorities, state long-term vegetation monitoring outcomes, Basin-wide environmental watering strategy, to name a few.
- / >	VEGETATION: Rolling, multi-year priority	VEGETATION: Basin annual environmental watering priorities 2020-2021
6 (a)	DRY)	Where possible, limit any loss or decline in condition of lignum shrublands.
		This priority is more critical the longer the preceding dry spell.
		Where lignum shrublands have been inundated in recent years, they are likely to be in a reasonable condition to withstand a dry period.
		Basin significant sites: Environmental water managers and planners should prioritise lignum shrublands located within the regions listed watering strategy, which are: the Lower Lachlan; Lower Murrumbidgee; Lower Darling; Lower Condamine – Balonne (including Narran Lake
		Marshes; lower Border Rivers; and the River Murray from the junction of Wakool River to downstream of Lock 3 (including Chowilla and H locations/regions based on state annual environmental watering priorities, state long-term environmental watering plans, vegetation mo
		environmental watering strategy, to name a few.
6 (b)	VEGETATION: Maintain the extent and improve the condition of lignum shrublands. (DRY)	Where possible, limit any loss or decline in condition of lignum shrublands.
		This priority is more critical the longer the preceding dry spell.
		Where lignum shrublands have been inundated in recent years, they are likely to be in a reasonable condition to withstand a dry period.
		Basin significant sites: Environmental water managers and planners should prioritise lignum shrublands located within the regions listed is watering strategy, which are: the Lower Lachlan; Lower Murrumbidgee; Lower Darling; Lower Condamine–Balonne (including Narran Lake Marshes; lower Border Rivers; and the River Murray from the junction of Wakool River to downstream of Lock 3 (including Chowi IIa and H locations/regions based on state annual environmental watering priorities, state long-term environmental watering plans, vegetation mo environmental watering strategy, to name a few.
6 (c)	VEGETATION: Maintain the extent and improve the condition and of lignum shrublands. (MODERATE)	Maintain the condition of lignum shrublands by providing inundation in line with the optimal duration, timing and depth. The necessity o the preceding dry spell.
		Where lignum shrublands have been inundated in previous years, they are likely to be in a reasonable condition to withstand a dry

e River, Loddon – Loddon River, nd Wimmera rivers.	
	Relevant jurisdiction
ere possible, manage or deliver water	Vic, NSW, SA, CEWH, TLM, Qld, ACT
renvironmental watering plans,	
Vhere possible, manage or deliver n environmental watering plans,	Vic, NSW, SA, CEWH, TLM, Qld, ACT
nd improve condition. n environmental watering plans,	vic, isow, or, clivit, ilivi, qid, Act
plack box and coolibah communities	Vic, NSW, SA, CEWH, TLM, Qld,
n environmental watering plans,	ACT
n of river red gum, black box and	Vic, NSW, SA, CEWH, TLM, Qld, ACT
n environmental watering plans,	
	Relevant jurisdiction
n the Basin-wide environmental es); Lower Gwydir; Macquarie attah Lakes). The MDBA may identify nitoring outcomes and the Basin-wide	Vic, NSW, SA, CEWH, TLM, Qld
n the Basin -wide environmental es); Lower Gwydir; Macquarie lattah Lakes). The MDBA may identify nitoring outcomes and the Basin-wide	Vic, NSW, SA, CEWH, TLM, Qld
f this priority is more critical the longer	Vic, NSW, SA, CEWH, TLM, Qld
period.	

		Basin significant sites: Environmental water managers and planners should prioritise lignum shrublands located within the regions listed in the Basin-wide environmental watering strategy, which are: the Lower Lachlan; Lower Murrumbidgee; Lower Darling; Lower Condamine – Balonne (including Narran Lakes); Lower Gwydir; Macquarie Marshes; lower Border Rivers; and the River Murrug from the junction of Wakool River to downstream of Lock 3 (including Chowi IIa and Hattah Lakes). The MDBA may identify locations/regions based on state annual environmental watering priorities, state long-term environmental watering plans, vegetation monitoring outcomes and the Basin-wide environmental watering strategy, to name a few.	
6 (d)	VEGETATION: Maintain the extent and improve the condition of lignum shrublands. (WET)	Improve the condition of lignum shrublands by providing inundation in line with the optimal duration, timing and depth. Where lignum shrublands have been inundated in previous years, they are likely to be in a reasonable condition to withstand a dry period. The necessity of this priority is more critical the longer the preceding dry spell.	Vic, NSW, SA, CEWH, TLM, Qld
		Basin significant sites: Environmental water managers and planners should prioritise lignum shrublands located within the regions listed in the Basin-wide environmental watering strategy, which are: the Lower Lachlan; Lower Murrumbidgee; Lower Darling; Lower Condamine – Balonne (including Narran Lakes); Lower Gwydir; Macquarie Marshes; lower Border Rivers; and the River Murray from the junction of Wakool River to downstream of Lock 3 (including Chowi IIa and Hattah Lakes). The MDBA may identify locations/regions based on state annual environmental watering priorities, state long-term environmental watering plans, vegetation monitoring outcomes and the Basin-wide environmental watering strategy, to name a few.	
6 (e)	VEGETATION: Maintain the extent and improve the condition of lignum shrublands. (VERY WET)	Improve the condition of lignum shrublands by providing inundation in line with the optimal duration, timing and depth. Where lignum shrublands have been inundated in previous years, they are likely to be in a reasonable condition to withstand a dry period. The necessity of this priority is more critical the longer the preceding dry spell.	Vic, NSW, SA, CEWH, TLM, Qld
		Basin significant sites: Environmental water managers and planners should prioritise lignum shrublands located within the regions listed in the Basin-wide environmental watering strategy, which are: the Lower Lachlan; Lower Murrumbidgee; Lower Darling; Lower Condamine – Balonne (including Narran Lakes); Lower Gwydir; Macquarie Marshes; lower Border Rivers; and the River Murray from the junction of Wakool River to downstream of Lock 3 (including Chowi IIa and Hattah Lakes). The MDBA may identify locations/regions based on state annual environmental watering priorities, state long-term environmental watering plans, vegetation monitoring outcomes and the Basin-wide environmental watering strategy, to name a few.	
	VEGETATION: Rolling, multi-year priority	VEGETATION: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction
7(a)			
7 (a)	VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (VERY DRY)	Where possible, limit any loss of Moira grass extent through the operation of forest regulators. The necessity of this action will become more critical the longer the preceding dry spell.	NSW, Vic, CEWH, TLM
7 (b)	VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (VERY DRY) VEGETATION Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (DRY)	Where possible, limit any loss of Moira grass extent through the operation of forest regulators. The necessity of this action will become more critical the longer the preceding dry spell. Maintain the condition and extent of Moira grass through the operation of forest regulators. Where possible, aim to improve condition of Moira grass. This action will be more likely in a Dry RAS following Moderate to Very Wet RAS years.	NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM
7 (b) 7 (c)	VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (VERY DRY) VEGETATION Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (DRY) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (MODERATE)	Where possible, limit any loss of Moira grass extent through the operation of forest regulators. The necessity of this action will become more critical the longer the preceding dry spell. Maintain the condition and extent of Moira grass through the operation of forest regulators. Where possible, aim to improve condition of Moira grass. This action will be more likely in a Dry RAS following Moderate to Very Wet RAS years. Improve the condition and maintain the extent of Moira grass by providing an opportunity for growth of existing plants. Where possible, aim to increase Moira grass extent by optimising the duration and depth of inundation.	NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM
7 (b) 7 (c) 7 (d)	VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (VERY DRY) VEGETATION Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (DRY) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (MODERATE) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (WET)	Where possible, limit any loss of Moira grass extent through the operation of forest regulators. The necessity of this action will become more critical the longer the preceding dry spell. Maintain the condition and extent of Moira grass through the operation of forest regulators. Where possible, aim to improve condition of Moira grass. This action will be more likely in a Dry RAS following Moderate to Very Wet RAS years. Improve the condition and maintain the extent of Moira grass by providing an opportunity for growth of existing plants. Where possible, aim to increase Moira grass extent by optimising the duration and depth of inundation. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flower ing event occurred in the previous water year, promote seed germination if/where possible.	NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM
7 (b) 7 (c) 7 (d)	VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (VERY DRY) VEGETATION Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (DRY) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (MODERATE) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (WET)	Where possible, limit any loss of Moira grass extent through the operation of forest regulators. The necessity of this action will become more critical the longer the preceding dry spell. Maintain the condition and extent of Moira grass through the operation of forest regulators. Where possible, aim to improve condition of Moira grass. This action will be more likely in a Dry RAS following Moderate to Very Wet RAS years. Improve the condition and maintain the extent of Moira grass by providing an opportunity for growth of existing plants. Where possible, aim to increase Moira grass extent by optimising the duration and depth of inundation. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flower ing event occurred in the previous water year, promote seed germination if/where possible. If seed germination occurred in the previous water year, support the consolidation of growth of new plants.	NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM
7 (b) 7 (c) 7 (d) 7 (e)	VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (VERY DRY) VEGETATION Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (DRY) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (MODERATE) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (WET) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (WET)	Where possible, limit any loss of Moira grass extent through the operation of forest regulators. The necessity of this action will become more critical the longer the preceding dry spell. Maintain the condition and extent of Moira grass through the operation of forest regulators. Where possible, aim to improve condition of Moira grass. This action will be more likely in a Dry RAS following Moderate to Very Wet RAS years. Improve the condition and maintain the extent of Moira grass by providing an opportunity for growth of existing plants. Where possible, aim to increase Moira grass extent by optimising the duration and depth of inundation. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flower ing event occurred in the previous water year, promote seed germination occurred in the previous water year, support the consolidation of growth of new plants. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flower ing event occurred in the previous water year, support the consolidation of growth of new plants. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flower ing event occurred in the previous water year, promote seed germination if/where possible.	NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM
7 (b) 7 (c) 7 (d) 7 (e)	VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (VERY DRY) VEGETATION Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (DRY) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (MODERATE) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (WET) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (WET)	Where possible, limit any loss of Moira grass extent through the operation of forest regulators. The necessity of this action will become more critical the longer the preceding dry spell. Maintain the condition and extent of Moira grass through the operation of forest regulators. Where possible, aim to improve condition of Moira grass. This action will be more likely in a Dry RAS following Moderate to Very Wet RAS years. Improve the condition and maintain the extent of Moira grass by providing an opportunity for growth of existing plants. Where possible, aim to increase Moira grass extent by optimising the duration and depth of inundation. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flowering event occurred in the previous water year, support the consolidation of growth of new plants. If seed germination occurred in the previous water year, support the consolidation of growth of new plants. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flowering event occurred in the previous water year, support the consolidation of growth of new plants. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flowering event occurred in the previous water year, promote seed germination if/where possible. If seed germination occurred in the previous water year, support the consolidation of growth of new plants. If seed germination occurred in the previous water year, support the consolidation of growth of new plants.	NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM
7 (b) 7 (c) 7 (d) 7 (e)	VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (VERY DRY) VEGETATION Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (DRY) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (MODERATE) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (WET) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (WET) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah– Millewa Forest. (VERY WET)	Where possible, limit any loss of Moira grass extent through the operation of forest regulators. The necessity of this action will become more critical the longer the preceding dry spell. Maintain the condition and extent of Moira grass through the operation of forest regulators. Where possible, aim to improve condition of Moira grass. This action will be more likely in a Dry RAS following Moderate to Very Wet RAS years. Improve the condition and maintain the extent of Moira grass by providing an opportunity for growth of existing plants. Where possible, aim to increase Moira grass by providing inundation and depth of inundation. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flower ing event occurred in the previous water year, support the consolidation of growth of new plants. If seed germination occurred in the previous water year, support the consolidation of growth of new plants. If seed germination occurred in the previous water year, support the consolidation of growth of new plants. If seed germination occurred in the previous water year, support the consolidation of growth of new plants. If seed germination occurred in the previous water year, support the consolidation of growth of new plants. VEGETATION: Basin annual environmental watering priorities 2020-2021	NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM
7 (b) 7 (c) 7 (d) 7 (e) 8 (a)	VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah- Millewa Forest. (VERY DRY) VEGETATION Expand the extent and improve the condition of Moira grass in Barmah- Millewa Forest. (DRY) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah- Millewa Forest. (MODERATE) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah- Millewa Forest. (WET) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah- Millewa Forest. (WET) VEGETATION: Expand the extent and improve the condition of Moira grass in Barmah- Millewa Forest. (VERY WET) VEGETATION: Rolling, multi-year priority VEGETATION: Expand the extent and improve resilience of <i>nuppia tuberosa</i> in the southern Coorong. (VERY DRY)	Where possible, limit any loss of Moira grass extent through the operation of forest regulators. The necessity of this action will become more critical the longer the preceding dry spell. Maintain the condition and extent of Moira grass. This action will be more likely in a Dry RAS following Moderate to Very Wet RAS years. Improve the condition and maintain the extent of Moira grass by providing an opportunity for growth of existing plants. Where possible, aim to increase Moira grass by optimising the duration and depth of inundation. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flower ing event occurred in the previous water year, promote seed germination if/where possible. If seed germination occurred in the previous water year, support the consolidation of growth of new plants. Improve the condition and extent of Moira grass by providing inundation in line with optimal duration and timing. If a flower ing event occurred in the previous water year, promote seed germination if/where possible. If seed germination occurred in the previous water year, support the consolidation of growth of new plants. VEGETATION: Basin annual environmental watering priorities 2020-2021 Where possible, limit loss of ruppia extent through the delivery of freshwater through barrages. Where possible, limit loss of ruppia extent through the delivery of freshwater through barrages. Where possible, limit loss of ruppia extent through the preceding dry spell.	NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM NSW, Vic, CEWH, TLM RSW, Vic, CEWH, TLM SA, CEWH, TLM

8 (c)	VEGETATION: Expand the extent and improve resilience of <i>suppla tuberosa</i> in	Maintain the extent of ruppia by providing opportunities for growth and support the completion of the plant's life cycle.
	the southern Coorong. (MODERATE)	Where possible, promote ruppia sexual and asexual reproduction by providing inundation in line with optimal duration, timing and
		Where possible, improve habitat conditions and salinity gradient in the Coorong to maintain ruppia condition and mitigate risks to popul
		considering options to manage the flow regime within the end-of-basin system to reduce the chance of filamentous algae outbreaks in the
8 (d)	VEGETATION: Expand the extent and improve resilience of <i>suppla tuberosa</i> in the	Improve the extent and support the reproduction of ruppia by providing inundation in line with optimal duration, timing and depth of flo
	southern Coorong. (WET)	increasing inundation of mudflats over early spring
		reaching peak inundation over late spring/early summer months
		easing drawdown of water during mid-late summer.
		Where possible, operate barrages to enhance optimal ruppia inundation, including slowing the rate at which water levels drop over late s
		Improve habitat conditions and salinity gradient in the Coorong to maintain ruppia condition and mitigate risks to population health. This
		to manage the flow regime within the end-of-basin system to reduce the chance of filamentous algae outbreaks in the southern Coorong
8 (e)	VEGETATION: Expand the extent and improve resilience of <i>ruppia tuberosa</i> in the	Improve the extent and support the reproduction of ruppia by providing inundation in line with optimal duration, timing and depth
	southern Coorong. (VERY WET)	Where possible, operate barrages to enhance optimal ruppia inundation, including slowing the rate at which water levels drop over lat
		Where possible, improve habitat conditions and salinity gradient in the Coorong to maintain ruppia condition and mitigate risks to popula
		options to manage the flow regime within the end-of-basin system to reduce the chance of filamentous algae outbreaks in the southern C
O(a)	WATERBIRDS: Rolling, multi-year priority	WATERBIRDS: Basin annual environmental watering priorities 2020-2021
9 (a)	population. (VERY DRY)	Avoid loss of foraging and roosting habitat at refuge focations.
		Murray Mouth. Core marsh areas can also act as drought refuges.
9 (b)	WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird	Maintain foraging and roosting habitat at refuges as these maintain species richness and abundance in dry years.
	population. (DRY)	Support breeding where naturally triggered.
		Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years.
		Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands (refuge); Fivebough S
		Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands (refuge); Fivebough S Swamp; Gunbower–Koondrook–Perricoota; Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain (refu
		Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands (refuge); Fivebough S Swamp; Gunbower–Koondrook–Perricoota; Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain (refu Pyap Lagoon (refuge); River Murray & Euston Lakes (refuge); Upper Darling River (refuge).
9 (c)	WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird population. (MODERATE)	Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands (refuge); Fivebough S Swamp; Gunbower–Koondrook–Perricoota; Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain (refu Pyap Lagoon (refuge); River Murray & Euston Lakes (refuge); Upper Darling River (refuge). Create mosaic of wetland habitats suitable for functional feeding groups, since a diversity of habitats, including mud flats, inundated vege abundant and diverse wetlands.
9 (c)	WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird population. (MODERATE)	Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands (refuge); Fivebough S Swamp; Gunbower–Koondrook–Perricoota; Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain (refu Pyap Lagoon (refuge); River Murray & Euston Lakes (refuge); Upper Darling River (refuge). Create mosaic of wetland habitats suitable for functional feeding groups, since a diversity of habitats, including mud flats, inundated vege abundant and diverse wetlands. Maintain waterbird breeding habitat in 'event ready' condition by providing environmental water to maintain the distribution, strue floodplain and wetland vegetation.
9 (c)	WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird population. (MODERATE)	 Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands (refuge); Fivebough S Swamp; Gunbower–Koondrook–Perricoota; Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain (refu Pyap Lagoon (refuge); River Murray & Euston Lakes (refuge); Upper Darling River (refuge). Create mosaic of wetland habitats suitable for functional feeding groups, since a diversity of habitats, including mud flats, inundated vege abundant and diverse wetlands. Maintain waterbird breeding habitat in 'event ready' condition by providing environmental water to maintain the distribution, strue floodplain and wetland vegetation. Respond to natural biological processes to support small breeding events from nest building through to post-fledging care either by exter creating artificial inundation to maintain adequate and stable water depths in colony sites (90-120 days for most species).
9 (c)	WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird population. (MODERATE)	Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands (refuge); Fivebough S Swamp; Gunbower–Koondrook–Perricoota; Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain (refu Pyap Lagoon (refuge); River Murray & Euston Lakes (refuge); Upper Darling River (refuge). Create mosaic of wetland habitats suitable for functional feeding groups, since a diversity of habitats, including mud flats, inundated vege abundant and diverse wetlands. Maintain waterbird breeding habitat in 'event ready' condition by providing environmental water to maintain the distribution, struct floodplain and wetland vegetation. Respond to natural biological processes to support small breeding events from nest building through to post-fledging care either by exter creating artificial inundation to maintain adequate and stable water depths in colony sites (90-120 days for most species). Ensure a slow draw down of water levels following a breeding event, to limit nest abandonment, avoid incursion by pests such as foxes ar opportunities after eggs have hatched.
9 (c)	WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird population. (MODERATE)	Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands (refuge); Fivebough S Swamp; Gunbower–Koondrook–Perricoota; Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain (refu Pyap Lagoon (refuge); River Murray & Euston Lakes (refuge); Upper Darling River (refuge). Create mosaic of wetland habitats suitable for functional feeding groups, since a diversity of habitats, including mud flats, inundated vege abundant and diverse wetlands. Maintain waterbird breeding habitat in 'event ready' condition by providing environmental water to maintain the distribution, struct floodplain and wetland vegetation. Respond to natural biological processes to support small breeding events from nest building through to post-fledging care either by exter creating artificial inundation to maintain adequate and stable water depths in colony sites (90-120 days for most species). Ensure a slow draw down of water levels following a breeding event, to limit nest abandonment, avoid incursion by pests such as foxes ar opportunities after eggs have hatched. Manage over-wintering sites and nearby foraging habitats to support survival of juveniles and sub-adults.
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9 (c) 9 (d)	WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird population. (MODERATE) WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird population. (WET)	Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands (refuge); Fivebough S Swamp; Gunbower–Koondrook–Perricoota; Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain (refu Pyap Lagoon (refuge); River Murray & Euston Lakes (refuge); Upper Darling River (refuge). Create mosaic of wetland habitats suitable for functional feeding groups, since a diversity of habitats, including mud flats, inundated vege abundant and diverse wetlands. Maintain waterbird breeding habitat in 'event ready' condition by providing environmental water to maintain the distribution, strue floodplain and wetland vegetation. Respond to natural biological processes to support small breeding events from nest building through to post-fledging care either by exter creating artificial inundation to maintain adequate and stable water depths in colony sites (90-120 days for most species). Ensure a slow draw down of water levels following a breeding event, to limit nest abandonment, avoid incursion by pests such as foxes ar opportunities after eggs have hatched. Manage over-wintering sites and nearby foraging habitats to support survival of juveniles and sub-adults. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands; Great Cumbung Swar Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain; Macquarie Marshes; Narran Lakes; Pyap Lagoon. Create mosaic of wetland habitats suitable for functional feeding groups, since a diversity of habitats, including mud flats, inundated vege abundant and diverse wetlands.
9 (c) 9 (d)	WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird population. (MODERATE) WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird population. (WET)	Allow for appropriate drying periods in temporary wetlands to enhance productivity and breeding success in future years. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands (refuge); Fivebough S Swamp; Gunbower–Koondrook–Perricoota; Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain (refu Pyap Lagoon (refuge); River Murray & Euston Lakes (refuge); Upper Darling River (refuge). Create mosaic of wetland habitats suitable for functional feeding groups, since a diversity of habitats, including mud flats, inundated vege abundant and diverse wetlands. Maintain waterbird breeding habitat in 'event ready' condition by providing environmental water to maintain the distribution, struct floodplain and wetland vegetation. Respond to natural biological processes to support small breeding events from nest building through to post-fledging care either by exter creating artificial inundation to maintain adequate and stable water depths in colony sites (90-120 days for most species). Ensure a slow draw down of water levels following a breeding event, to limit nest abandonment, avoid incursion by pests such as foxes ar opportunities after eggs have hatched. Manage over-wintering sites and nearby foraging habitats to support survival of juveniles and sub-adults. Basin significant sites: Barmah–Millewa; Booligal wetlands; Lake Brewster; Lowbidgee Floodplain; Macquarie Marshes; Narran Lakes; Pyap Lagoon. Create mosaic of wetland habitats suitable for functional feeding groups, since a diversity of habitats, including mud flats, inundated vege abundant and diverse wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lowbidgee Floodplain; Macquarie Marshes; Narran Lakes; Pyap Lagoon. Create mosaic of wetland habitats suitable for functional feeding groups, since a diversity of habitats, including mud flats, inundated vege abundant and diverse wetlands. Support large breeding events from nest building to post-fledging care by extending the

	SA, CEWH, TLM
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of flooding.	SA, CEWH, TLM
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tion health. This includes considering	
	Polovant jurisdiction
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ng River. Lower Lakes, Coorong and	
	Vic, NSW SA, CEWH, TLM
wamp (refuge); Great Cumbung	
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tation and deeper water, will result in	Vic. NSW SA. CEWH. TLM
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n Cunhawar Kaandraak, Darrigaata	
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tation and deeper water, will result in	Vic. NSW SA. CEWH. TLM
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nd stable water depths in colony sites	
nd stable water depths in colony sites d pigs and allow more foraging	

		Extend breeding site inundation until juvenile survival is apparent.	
		Provide environmental water in the year following large breeding events to support the survival of juveniles.	
		Manage over-wintering sites and nearby foraging habitats to support survival of juveniles and sub-adults.	
		Basin significant sites: Barmah–Millewa; Booligal wetlands; Lower Lakes, Coorong & Murray Mouth; Corop wetlands; Darling Anabranch; Fivebough Swamp; Great Cumbung Swamp; Gunbower-Koondrook-Perricoota; Gwydir wetlands; Hattah Lakes; Kerang wetlands; Lake Brewster; Lake Buloke; Lindsay-Walpolla-Chowilla; Lowbidgee Floodplain;	
		Macquarie Marshes; Narran Lakes; Pyap Lagoon; River Murray & Euston Lakes.	
9 (e	WATERBIRDS: Maintain the diversity and improve the abundance of the Basin's waterbird population.(VERY WET)	Support large breeding events from nest building to post-fledging care by extending the duration of flooding and maintaining adequate and stable water depths in colony sites (90-120 days for most species).	Vic, NSW SA, CEWH, TLM
		Ensure a slow draw down of water levels following a breeding event, to limit nest abandonment, avoid incursion by pests such as foxes and pigs and allow more foraging opportunities after eggs have hatched.	
		Extend breeding site inundation until juvenile survival is apparent.	
		Provide environmental water in the year following large breeding events to support the survival of juveniles.	
		Manage over-wintering sites and nearby foraging habitats to support survival of juveniles and sub-adults.	
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	WATERRIEDS: Rolling multi-year priority	WATERBIRDS: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction
10 (a) WATERBIRDS: Maintain the abundance of key shorebird species in the Lower Lakes and	Avoid loss of foraging and roosting habitat at key refuge locations.	SA, CEWH, TLM
	Coorong. (VERY DRY)	Where possible, manage algal blooms and water quality at key foraging sites.	
10 (b) WATERBIRDS: Maintain the abundance of key migratory shorebird species in the Lower	Maintain foraging and roosting habitat at refuge locations.	SA, CEWH, TLM
	Lakes and Coorong. (DRY)	Support breeding of resident shorebirds where naturally triggered (i.e. maintain isolation from predators). Manage algal blooms and water quality at key foraging sites.	
10 (WATERBIRDS: Maintain the abundance of keyshorebird species in the Lower Lakes and Coorong (MODERATE) 	Build productivity of foraging habitat for summer.	SA, CEWH, TLM
		Support breeding of resident shorebirds and waterbird species where naturally triggered (i.e. maintain isolation from predators).	
		Manage algal blooms and water quality at key foraging sites.	
		Provide functional mudflat habitat to sustain shorebird foraging during November-March each year.	
		Create water levels that are suitable for a variety of shorebird and waterbirds species, with most shorebirds preferring to forage at or near shorelines where mudflats are covered with only a few centimetres of water.	
10 (d) WATERBIRDS: Maintain the abundance of key shore bird species in the Lower Lakes and	Build productivity of foraging habitat for summer.	SA, CEWH, TLM
	Coorong (WET)	Actively maximise shorebird access to foraging habitat during summer.	
		Support breeding of resident shorebirds ad waterbird species where naturally triggered (i.e. maintain isolation from predators).	
		Create mosaic of wetland habitats suitable for shorebirds.	
		Create water levels that are suitable for a variety of shorebird species, with most shorebirds preferring to forage at or near shorelines where mudflats are covered with only a few centimetres of water.	
10 (e) WATERBIRDS: Maintain the abundance of keyshorebird species in the Lower Lakes and	Where possible, actively maximise shorebird access to foraging habitat during summer.	SA, CEWH, TLM
	Coorong. (VERY WEI)	Provide functional mudflat habitat to sustain shorebird foraging during November to March each year.	
		Support breeding of resident shorebirds and waterbird species where naturally triggered (i.e. maintain isolation from predators).	
		Create a mosaic of wetland habitats suitable for shorebirds and waterbirds.	
		Create water levels that are suitable for a variety of shorebird species, with most shorebirds preferring to forage at or near shorelines where mudflats are covered with only a few centimetres of water.	
	NATIVE FISH: Rolling, multi-year priority	NATIVE FISH: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction
11 (a) NATIVE FISH: Support Basin-scale population recovery of native fish by reinstating flows	Support system-scale migrations of golden perch, silver perch and lamprey.	NSW, Vic, SA, CEWH, TLM, ACT
	that promote key ecological processes across local, regional and system scales in the southern connected Basin. (All SCENARIOS)		

NATIVE FISH: Rolling, multi-year priority NATIVE FISH: Rolling, multi-year priority	Relevant jurisdiction NSW, Vic, SA, CEWH, TLM, ACT
Increase flow connections between major rivers and their tributaries and anabranches to promote movement and dispersal.Provide flows that protect ecologically important populations of native fish.NATIVE FISH: Rolling, multi-year priorityNATIVE FISH: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction NSW, Vic, SA, CEWH, TLM, ACT
NATIVE FISH: Rolling, multi-year priority NATIVE FISH: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction NSW, Vic, SA, CEWH, TLM, ACT
NATIVE FISH: Rolling, multi-year priority NATIVE FISH: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction NSW, Vic, SA, CEWH, TLM, ACT
	NSW, Vic, SA, CEWH, TLM, ACT
11 (h) NATIVE FISH: Support Basin-scale population recovery of pative fish by reinstating flows I provide base flows and small freshes	
that promote key ecological processes across local, regional and system scales in the southern connected Basin. (VERY DRY) Maintain refuge waterholes to support key populations of native fish.	
Provide flows through barrage fishways when possible.	
11(c) NATIVE FISH: Support Basin-scale population recovery of native fish by reinstating flows Provide base flows, bw flows and small freshes; and medium freshes with peak.	NSW, Vic, SA, CEWH, TLM, ACT
that promote key ecological processes across local, regional and system scales in the southern connected Basin. (DRY) Provide flows through barrage fishways all year round.	
Provide flows through barrages in winter and spring.	
11 (d) NATIVE FISH: Support Basin-scale population recovery of native fish by reinstating flows Provide medium freshes with peak; large freshes; and hydrological connectivity between systems.	NSW, Vic, SA, CEWH, TLM, ACT
southern connected Basin. (MODERATE) Provide flows through barrage through winter to summer.	
11 (e) NATIVE FISH: Support Basin-scale population recovery of native fish by reinstating flows Provide medium freshes with peak; large freshes; and hydrological connectivity between systems.	NSW, Vic, SA, CEWH, TLM, ACT
southern connected Basin. (WET) Provide flows through barrage fishways all year round.	
11 (f) NATIVE FISH: Support Basin-scale population recovery of native fish by reinstating flows Provide overbank flows (expected rather than targeted); and hydrological connection between systems.	NSW, Vic, SA, CEWH, TLM, ACT
that promote key ecological processes across local, regional and system scales in the southern connected Basin. (VERY WET) Provide flows through barrages year round.	
NATIVE FISH: Rolling, multi-year priority NATIVE FISH: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction
12 (a) NATIVE FISH: Improve flow regimes and connectivity in northern Basin rivers to support Support system-scale migrations of golden perch, silver perch.	NSW, QLD, CEWH
native fish populations across local, regional and system scales. (ALL SCENARIOS) When freshes occur in the spawning period, maintain the integrity of flow through the system to allow eggs and larvae to drift uninterrupted.	
Provide opportunities for young golden perch and silver perch to disperse following episodic system-scale recruitment events.	
Increase flow connections between major rivers and their tributaries and anabranches to promote movement and dispersal.	
NATIVE FISH: Rolling, multi-year priority NATIVE FISH: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction
12 (b NATIVE FISH: Improve flow regimes and connectivity in northern Basin rivers to support Maintain refuge waterholes to support key populations of native fish.	NSW, QLD, CEWH
native fish populations across local, regional and system scales. (VERY DRY) Provide base flows which support hydrological connectivity within systems and minimise cease -to-flow events.	
12 (c NATIVE FISH: Improve flow regimes and connectivity in northern Basin rivers to support Provide flows that maintain existing populations.	NSW, QLD, CEWH
Provide base flows, low flows and small freshes which support hydrological connectivity within and between systems and to replenish refuge waterholes.	
12 (d NATIVE FISH: Improve flow regimes and connectivity in northern Basin rivers to support Provide flows that support connectivity among populations and chances for fish to disperse.	NSW, QLD, CEWH
Provide small freshes and medium freshes, and support hydrological connectivity within and between systems and to replenish refuge waterholes.	
12 (e NATIVE FISH: Improve flow regimes and connectivity in northern Basin rivers to support Provide flows that assist in the broad-scale dispersal of fish across all life history stages into new habitats.	NSW, QLD, CEWH
Provide medium and large freshes and support hydrological connectivity within systems, between systems, and along the length of the Barwon–Darling and into the Meni Lakes.	dee
12 (f NATIVE FISH: Improve flow regimes and connectivity in northern Basin rivers to support Provide flows that assist in the broad-scale dispersal of fish across all life history stages into new habitats.	NSW, QLD, CEWH
native fish populations across local, regional and system scales. (VERY WEI) Protect overbank flows and support hydrological connection within and between systems, especially into the Menindee Lakes (to support the needs of the lower Darling)	
NATIVE FISH: Rolling, multi-year priority NATIVE FISH: Basin annual environmental watering priorities 2020-2021	Relevant jurisdiction
13 (a) NATIVE FISH: Support viable populations of threatened native fish, maximise When freshes occur in the spawning period, maintain the integrity of flow through the system to allow eggs and larvae to drift uninterrupted.	Vic, NSW, SA, CEWH, TLM, Qld, ACT
opportunities for range expansion and establish new populations. (ALL SCENARIOS) Provide opportunities for young fish to disperse following recruitment events.	
Increase lateral connections between rivers and wetlands to maintain populations of small-bodied threatened native fish.	
Provide flows that protect ecological processes that are important to maintain populations of threatened native fish.	

		*Establishing and maintaining surrogate populations will also be necessary under very dry conditions.
	NATIVE FISH: Rolling, multi-year priority	NATIVE FISH: Basin annual environmental watering priorities 2020-2021
13 (b) NATIVE FISH: Support viable populations of threatened native fish, maximise opportunities for range expansion and establish new populations (VERY DRY)	Provide flows and / or secure water supplies to protect critical populations of threatened small-bodied fish. Maintain refuge waterholes to support key populations of threatened native fish.
		Provide base flows which support hydrological connectivity within systems and minimise cease-to-flow events.
13 (c	NATIVE FISH: Support viable populations of threatened native fish, maximise	Provide and / or secure water supplies that protect existing populations of threatened small-bodied fish.
	opportunities for range expansion and establish new populations (DRY)	Maintain refuge waterholes to support key populations of threatened native fish.
		Provide base flows, low flows and small freshes which support hydrological connectivity within and between systems.
<mark>13 (</mark> d	NATIVE FISH: Support viable populations of threatened native fish, maximise	Provide flows that expand existing populations of threatened small-bodied fish; and prepare new re-introduction sites.
	opportunities for range expansion and establish new populations (MODERATE)	Provide lateral connectivity to targeted wetland and floodplain habitats for threatened native fish.
		Provide medium freshes with peak; large freshes; and hydrological connectivity within and between systems.
<mark>13 (</mark> e	NATIVE FISH: Support viable populations of threatened native fish, maximise	Provide flows that expand existing populations of threatened small-bodied fish; and create new re-introduction sites.
	opportunities for range expansion and establish new populations (WET)	Provide lateral connectivity to targeted wetland and floodplain habitats for threatened native fish.
		Provide medium freshes with peak; large freshes; and hydrological connectivity within and between systems.
13 (f)	NATIVE FISH: Support viable populations of threatened native fish, maximise	Provide flows that assist in the dispersal of threatened small-bodied fish into new habitats.
	opportunities for range expansion and establish new populations (VERY WET)	Provide overbank flows (expected rather than targeted); and hydrological connection within and between systems.

Relevant jurisdiction
Vic, NSW, SA, CEWH, TLM, Qld, ACT
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