

**Implementation Plan  
for the  
Barmah National Park Joint Management Plan  
2022 – 2030**



**Yorta Yorta Traditional Owner Land Management Board**



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Prepared by



**Montane Planning**

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### **Inset artwork on front cover**

Dixon Patten (Junior)  
Yorta Yorta  
'Home' 2014

This art depicts the three rivers (our lifelines) that flow through our beautiful Country! Campaspe, Goulburn and of course the Mighty Murray!

The outstretched hands are nurturing the land and I have placed our beloved long-neck turtle (totem) close to the outstretched arms, also nurturing our wildlife.

The various brown/white coloured circles represent the townships/communities that are present today along the river and surrounds. The orange circles depict traditional sacred/special sites for our men and women.

The various (contoured lines) colours represent the bush/forests, sandhills, lakes and plains that you can find on Country.

The three paths that wind, depict our individual journeys — for some of us, that journey has happened off Country, but the paths guide us 'home' for spiritual sustenance and replenishment.

The footprints are those of our old people who have walked this land for millennia, and whose imprints we follow.

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## Abbreviations

YYTOLMB	Yorta Yorta Traditional Owner Land Management Board
YYNAC	Yorta Yorta Nation Aboriginal Corporation
DELWP	Department of Environment, Land, Water and Planning
TOAU	Traditional Owner Agreements Unit, DELWP
PV	Parks Victoria
GBCMA	Goulburn Broken Catchment Management Authority
MDBA	Murray-Darling Basin Authority
TLM	The Living Murray program
JMP	Joint Management Plan for Barmah National Park

## 1. Executive summary

1. The implementation of the Joint Management Plan (JMP) for Barmah National Park is a complex program involving multiple partners in a dynamic natural and cultural landscape. Joint management represents a new legislated approach to Victorian land and water management that requires previous processes to be modified to ensure the identity, knowledge and culture of Traditional Owners are recognised and incorporated into decisions, actions and practices. Successful implementation of the Barmah National Park JMP will depend on joint manager co-operation and adherence to the governance, monitoring and evaluation framework set out in this Plan.
2. The governance, monitoring and evaluation framework clarifies the roles of the partners in JMP implementation, a structure and process for reviewing priorities and approving projects, guidelines and templates for JMP communication between the Yorta Yorta Traditional Owner Land Management Board (YYTOLMB) and partners and for reporting on project progress, and processes and measures for evaluating implementation results and overall outcomes.
3. The key governance practices that should be implemented to achieve effective joint management are:
  - regular by-invitation attendance at YYTOLMB meetings of senior leaders of the partner organisations, to promote high-level understanding and collaboration
  - an annual workshop of the YYTOLMB and key partner personnel to review financial year outcomes and forward priorities and projects
  - ongoing interaction between staff of the partner organisations through formal working groups, on-ground operations and informal exchanges to build cross-cultural understanding
  - regular ‘traffic light’ reporting by partners on delivery progress on approved projects
  - an annual YYTOLMB report to the State and community on project delivery results and joint management outcomes based on partner reporting and the annual workshop.
4. The Implementation Plan sets out the staged priorities for implementing all JMP strategies (150 in total) in three phases years 1 and 2 (2021/22 and 2022/23), years 3 to 6 (2023/24 to 2026/27) and years 7 to 9 (2027/28 to 2030).
5. The priorities set out in the plan across the life of the Plan are indicative, especially in the later years. Their implementation will be affected by environmental conditions in the park including the extent of annual flooding, unpredictable events such as bushfires and fire season resource demands, and the level of available funds. The indicative priorities should be reviewed by the YYTOLMB and partners prior to each financial year, and confirmed or adjusted.
6. It may not be practical to implement all strategies within the proposed phases. Some strategies are critical to achieving the objectives of joint management (see Section 3.2) while others are beneficial but less important. The YYTOLMB and its partners should maintain a focus on the critical strategies, ensuring that they, above others, are implemented as effectively as possible. The critical strategies to achieve the joint management objectives are:
  - increasing Yorta Yorta participation in management decision-making, operations and employment
  - increasing the understanding and application of Yorta Yorta knowledge and cultural practices to the management of Country
  - controlling invasive animal and plant threats including removing feral horses
  - restoring traditional environmental water flows
  - expanding cultural burning

- surveying, mapping and protecting cultural heritage
  - revitalising the Dharnya precinct as the park gateway and the hub for presenting and promoting Yorta Yorta culture to visitors
  - establishing a Yorta Yorta gathering place on Top Island
  - improving the sustainability of visitor use via information, access, services and regulation.
7. In addition to collaboration between the YYTOLMB and the partners, the successful implementation of the JMP will also require ongoing support and resourcing by the Victorian Government, and co-operation from other levels of government.

## 2. Background to the Implementation Plan

The JMP for Barmah National Park was published by the YYTOLMB in April 2020. The JMP was agreed by the YYTOLMB with the Secretary of the Department of Environment, Land, Water and Planning, and approved by the Minister for Energy, Environment and Climate Change in accordance with the *Conservation, Forests and Lands Act 1987* (Vic.). Barmah National Park, in north-central Victoria, was proclaimed on 29 June 2010. It covers 28,505 hectares of floodplain forests and wetlands along the southern bank of Dhungalla (the Murray River) between the towns of Barmah and Tocumwal. The park is on the Country of the Yorta Yorta who are formally recognised by the Victorian Government as the Traditional Owner group for this area, based on their traditional and cultural associations with this part of northern Victoria and the adjacent area of New South Wales.

The JMP sets the strategic directions and action required to jointly manage Barmah National Park and to enable the knowledge and culture of the Yorta Yorta to influence and be recognised and incorporated in that management. The JMP will guide the joint management of the National Park for 10 years, with review and updating after 5 years. The objectives of the JMP are to:

- recognise the Yorta Yorta as First Nation People of the Barmah National Park and enable them to enact their rights and cultural responsibilities to manage, restore the health of, gather on and continue to use this part of their Country
- develop and apply combined skills and knowledge of Yorta Yorta and the State caring for the park
- conserve the park's environment and cultural values with the support and active participation of visitors and the community
- welcome and provide services for all people to come together to enjoy, understand and respect a forest and wetlands of international significance
- conserve, promote and interpret Yorta Yorta culture and the shared history of the park
- improve the wellbeing and prosperity of Yorta Yorta people and communities across the region through employment, business and tourism opportunities
- provide institutional support and capacity for Yorta Yorta to effectively deliver joint management.

The JMP contains a range of strategies to achieve the objectives, to be implemented by the joint management partners:

- the YYTOLMB
- Yorta Yorta Nation Aboriginal Corporation (YYNAC) - the recognised Traditional Owner Group Entity of the Yorta Yorta people and also the Registered Aboriginal Party (RAP) under the *Aboriginal Heritage Act 2006* (Vic.)
- the Secretary DELWP and the staff of the Department's Traditional Owner Agreements Unit (TOAU), providing support, resourcing and governance guidance for the YYTOLMB
- Parks Victoria - the Victorian Government's designated land manager for Barmah National Park

- DELWP’s regional staff and the Goulburn Broken Catchment Management Authority (GBCMA) - organisations with key responsibilities for delivering the land and water management strategies set out in the JMP in partnership with the Board.

Other important organisations include the Moira Shire, Murray Regional Tourism and the Murray-Darling Basin Authority (MDBA). The MDBA is responsible for river operations affecting water flows in the park. The management of flows for environmental purposes is co-ordinated through The Living Murray program which is a joint Commonwealth-State program. Barmah-Millewa Forest is one of six designated Living Murray ‘icon sites’. GBCMA is the icon site manager for the Barmah section of the forest, including Barmah National Park, and is responsible for the co-ordination of environmental watering in the park. Environmental water in Victoria is allocated by the Victorian Environmental Water Holder.

### 3. Governance, monitoring and evaluation framework

To assist the co-operative implementation of the JMP, this framework sets out guidance for:

- the roles of the partners in JMP implementation
- a structure and process for reviewing priorities and approving projects
- guidelines and templates for JMP communication between the Board and partners and reporting on JMP progress
- indicators and measures for evaluating implementation progress and overall outcomes.

Joint management governance for Barmah National Park is structured by the YTTOLM Agreement between YYNAC and the State of Victoria, and the land and water management responsibilities of the partners.

The governance and communication arrangements relevant to JMP implementation are those shown in green in Figure 1 as **land and water management**.

Other lines of communication not covered by this framework are the **authorisation and governance of the Agreement** between the parties to the YTTOLMA, which underpins joint management including any variations to that agreement (shown in grey); and communication relating to **the operation of the Board**, including reporting by the Board on its functions, and liaison with the State and YYNAC on meetings held, policies, expenditure etc.

#### 3.1 The roles of the YTTOLMB and partners in JMP implementation

The YTTOLMA establishes the Board to ‘enable the knowledge and culture of the Yorta Yorta to be recognised and incorporated into the management of the land’ via the Board’s functions. These functions are:

- preparing the JMP, and encouraging and monitoring compliance with and performance of the JMP
- advising the Minister on the management of the land.<sup>1</sup>

The Board’s roles in relation to the JMP can be expressed as:

- *co-owner* of the JMP with the Secretary DELWP (on the approval of the Minister for Energy Environment and Climate Change)
- *definer* of management strategies for the park via the JMP
- *priority setter* for implementing the JMP strategies in consultation with partners
- *endorser* of the partners’ projects to implement the strategies

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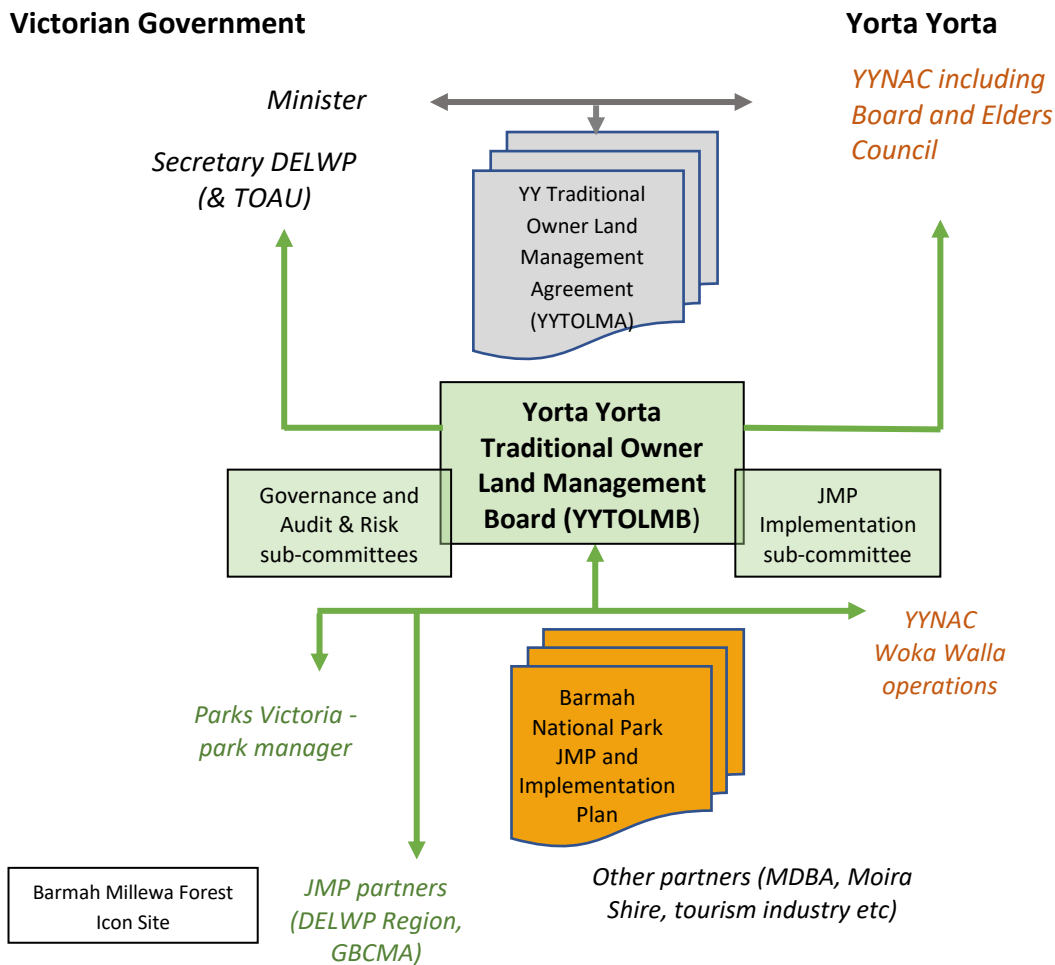
<sup>1</sup> The YTTOLMA provides for various land areas to be designated as ‘appointed land’ over which the provisions of the Agreement apply. Barmah National Park is the only area currently designated as appointed land.

- *overseer* to ensure Yorta Yorta knowledge & culture is incorporated in park management.



The JMP roles of the partners (YYNAC, PV, DELWP, GBCMA) can be expressed as:

- *contributors* to the preparation of the JMP
- *definers and approvers* of projects to implement the JMP strategies
- *deliverers* of projects and land and water management activities in the national park
- *reporters* on project progress and outcomes.

Figure 1 Governance relationships and communication lines



**Key communication lines:**

- 
*Authorisation and governance of the YYTOLMA* – monitoring and reporting on the operation of the agreement, the delivery of functions and commitments of the parties. Includes negotiation of any variations to the TOLMA.
- 
*Land and water management & JMP implementation* – planning, delivery, monitoring and reporting on implementation and outcomes of the Barmah National Park JMP.

### 3.2 Expectations of Government

Accountability for the implementation of the JMP lies with the YYTOLMB and the partners. The Victorian Government has expressed a strong commitment to making joint management work successfully and therefore it is expected that policy and governance support and implementation resourcing will be made available. There are also opportunities for investment through the Commonwealth Government and its



agencies, and through collaboration with local government and local tourism organisations. In the event that support for the Board and partners is not available, then the implementation of the JMP and the potential to build true joint management will be at risk.

### 3.3 Principles for ensuring true joint management

The objectives set for the Board and joint management do not stand in isolation. They sit in a context where the partner organisations have their own separate legislated objectives and responsibilities, and other plans. Many of these are long established and may not operate at the Barmah National Park level but at other levels; for example, a regional, catchment or whole-of-Country level.

Joint management represents a new legislated approach to land and water management that requires established processes to be modified. It replaces the former two-part 'government-community' model in which Traditional Owners were sometimes considered as one of many community stakeholders, to be engaged or consulted when and if necessary. Joint management, instead, establishes a three-part 'government - Traditional Owner - community' model in which the identity and culture of Traditional Owners is recognised in law and is required to be incorporated into management decisions and actions.

For joint management to be effective the Board must be able to genuinely participate in decision-making and management of Barmah National Park with the partners. To do so the Board needs:

- the full and timely sharing of information, with the YYTOLMB and other partners, through both formal reporting and informal liaison
- opportunities to share in decision-making or - where decision-making is assigned to others by legislation - to provide knowledge and input prior to decisions being made
- the ability to monitor and evaluate progress in JMP implementation and effectiveness through the co-operation of the partners and transparent reporting.

Equally, the Board needs to collaborate with the partners in ways that recognise the partners' roles and responsibilities including those outside the JMP and Barmah National Park.

### 3.4 Determining JMP priorities and projects

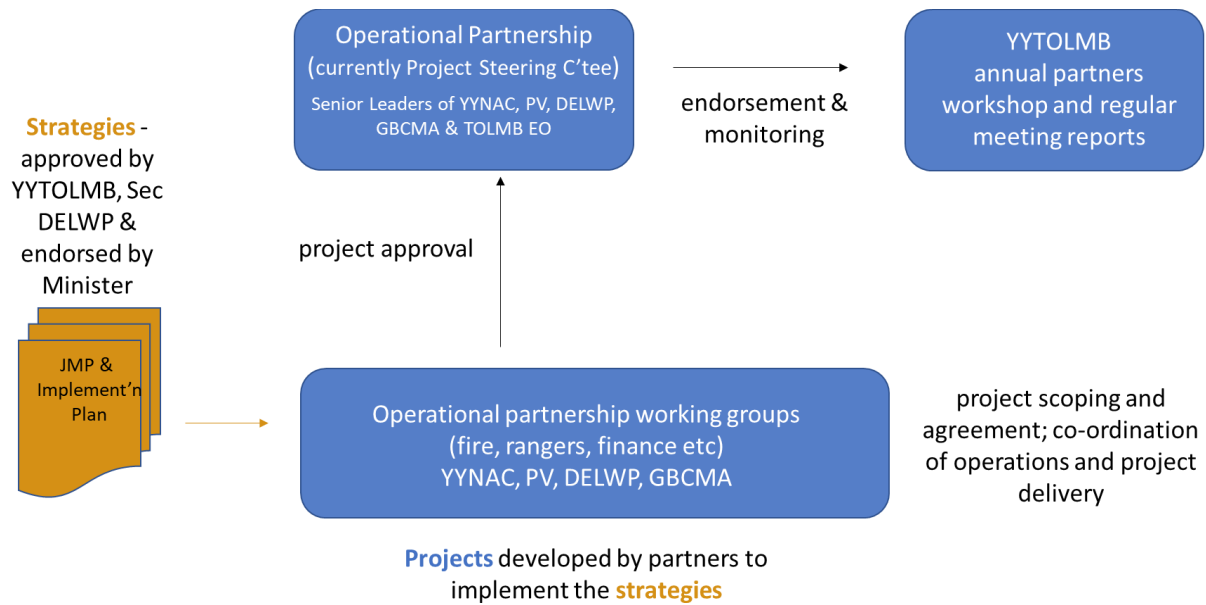
The structure for approving implementation strategies and projects is shown in Figure 2. The *strategies* for joint management have been established in the JMP. The priorities for implementation in each phase are established by the JMP Implementation Plan, developed by the Board in consultation with the partners.

*Projects* to deliver the strategies are scoped and developed by the partners through various working groups for functions such as fire, operations and community engagement. These groups are established and convened by the partners. Proposed projects are brought to an Operational Partnership group (currently this is the Project Steering Committee for Stimulus Funding) comprising the senior leaders of the partner organisations (ie CEO YYNAC, Regional Director Parks Victoria, District Manager DELWP) plus the Executive Officer of the YYTOLMB. Projects approved by the Operational Partnership are presented for YYTOLMB endorsement at the annual workshop convened by the board (see 3.5). Minor projects or basic park management activities require reporting but not endorsement. The YYTOLMB has the discretion to request further information or a status report on a project at any time.

The differences between approval and endorsement should be recognised. Approvers are accountable for a project, its scope and the organisational clearance to proceed. Their approval authorises the spending of project funds and other organisational 'permissions' or regulatory obligations that cannot be delegated outside the partner organisation such as allocating staff time, or health and safety compliance. The approvers also assess projects with knowledge of other projects and activities that are occurring in the park

or other demands on staff time and resources. Endorsers give their support for the project based on the intent of the JMP and Yorta Yorta knowledge and culture. If they decline to endorse the project the approvers need to consider making changes to meet the concerns of the endorsers or, in exceptional cases, withdrawing the project. With good ongoing communication and collaboration, endorsers and approvers should be able to agree on projects, or on modifications that will satisfy both parties.

Figure 2 Structure and process for priorities and projects



### Operational Partnership group (Project Steering Committee)

This group provides oversight for all key JMP implementation projects funded by the Victorian Government. Note that the Project Steering Committee for the Victorian Government's economic stimulus funding currently provides this function for the duration of the funding. The group meets prior to key project decision points or as needed. It determines resource allocation to support projects and future implementation across YYNAC, YYTOLMB, Parks Victoria and DELWP. It considers risks and issues reported to it by the operational working groups and project co-ordinators. It includes YYTOLMB representation through the Executive Officer.

### Operational working groups

A number of operational-level working groups have been established by YYNAC, Parks Victoria and DELWP. These are represented as the lowest level of the structure in Figure 2. They provide the arrangements for scoping and agreeing on projects between the JMP partners, and co-ordinating their delivery. Working groups are responsible for overall project delivery and for providing regular contact throughout projects to identify and allocate upcoming work, identify and address emerging issues and risk, identification of interdependencies. They then take emerging issues and risks to the Project Steering Committee. The groups correspond to the operations groups recommended in Strategy IG7 of the JMP.

These groups are not just a mechanism for governance and co-ordination but are *fundamental to sharing and understanding Yorta Yorta knowledge, culture and perspectives and government agency perspectives between individuals in formal and informal ways.*

### Development of project concepts

Parks Victoria, YYNAC and DELWP have adopted 'project concepts' as the initial tool for identifying projects that can then be discussed and agreed with other partners. Concepts agreed within the Operational

Partnership/Project Steering Committee will be presented at the annual workshop convened by the YYTOLMB for endorsement.

### 3.5 Communication

The following guidelines are recommended to facilitate and clarify JMP communication between the YYTOLMB and partners.

#### Liaison between the YYTOLMB and the partners

- Each partner organisation should nominate a staff member to be the primary point of regular liaison on JMP implementation with the Board Executive Officer, and to be invited to YYTOLMB meetings as needed, to discuss implementation progress.
- In addition, each partner organisation should ensure that a senior leader regularly attend by invitation at Board meetings, to promote high-level understanding and collaboration between the partners.
- Where the Board seeks the attendance of the partner at a meeting or a partner meeting report on implementation it should notify the partner of that request and invitation to attend at least ten working days before the meeting.

#### Annual review and programming of JMP projects

The YYTOLMB should convene a facilitated *annual review and programming workshop* prior to the start of each financial year, inviting relevant staff from each of the partner organisations. The workshop should:

- review the results of project delivery for the financial year about to be completed
- clarify what funding and staffing will be available for the coming year
- confirm or adjust the priorities set out in this Implementation Plan for the ensuing financial year, taking into account success in securing funding - through the prospectus or other processes
- clarify the projects and actions to deliver those projects including lead/support responsibilities, funding, project management, and timetable.
- draw on the partners' expert knowledge and views on progress towards JMP objectives as the basis of the annual 'outcomes evaluation snapshot' (see Section 4 below).

The review findings, projects and activities agreed at the workshop should be documented by the Board and circulated to the partners for written confirmation of acceptance by each partner.

#### Reporting by the partners on project implementation

The Board should request each of the partners to provide updates on the implementation of projects and activities in the park by means of:

- 'traffic light' reports on a quarterly basis
- a detailed mid financial year report on progress including remedies for any delayed projects
- an end of year report on implementation progress, outcomes and any outstanding or follow-up works/actions required.

#### Significant variations to projects during the year

Changes in environmental conditions, emergency management, resourcing or other reasons may mean that projects need to be varied by the partner organisations. Partners should advise the YYTOLMB as early as practical, and any other relevant partners, of significant changes in the scope, location or timing of any project from that which was confirmed in the annual programming workshop.

#### Partner agreement

The Board should develop a concise partnership agreement such as a memorandum of understanding with each partner that confirms agreement to work to this framework.

### 3.6 Funding prospectus

The YITOLMB should facilitate the compilation of a ‘funding prospectus’ in collaboration with the partners. The prospectus should identify projects and ‘works packages’ for funding by the Victorian and Commonwealth Governments and their agencies, as well as other sources, based on the Implementation Plan priorities. The Prospectus should ideally identify projects within the normal forward estimates window of government ie up to 3 to 4 years ahead. It should provide costings for the day-to-day management of the park (staffing, resourcing etc) and the priority projects that have been identified and approved to occur in the funding cycle. The prospectus should be developed by the Operational Partnership group shown in Figure 2 and updated as needed to reflect the outcomes of the annual review and programming workshop.

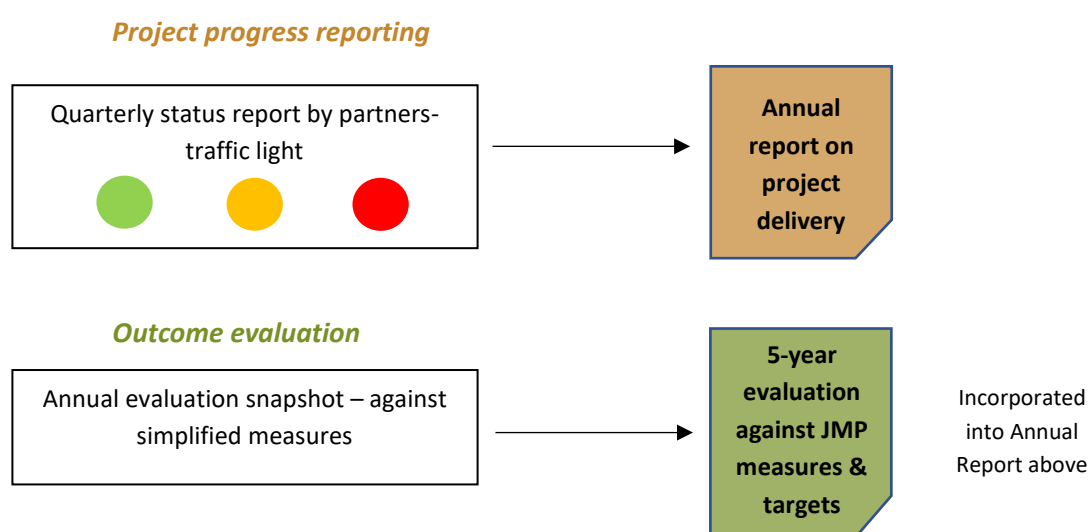
## 4. Monitoring and evaluation of JMP implementation

The YITOLMB and partners need to monitor the progress of implementing specific strategies while evaluating the overall outcomes of the JMP, while. The monitoring and evaluation framework proposed for the Barmah National Park JMP reflects these two levels of monitoring and evaluation. The JMP itself sets out measures and 5-year targets for evaluating success in achieving the JMP objectives – see Section 4.2.

*Progress reporting* needs to occur at several points each year, but not always in detail. Once projects are agreed at the annual programming workshop then the main requirement over the course of the year is for the Board and partners to know if a project is on track or not, or if a change in scope or timeframe is needed. This can be achieved by ‘traffic light’ reporting, where only projects that are off track need detailed explanation.

*Outcome evaluation* is important but is not necessary or achievable on a frequent basis. It often requires specific research or data analysis that is too time consuming or expensive to carry out annually. The 5-yearly review of the JMP that is proposed in the plan, is an appropriate timeframe for detailed outcome evaluation. However, there are benefits in taking stock of outcomes annually using simplified measures and existing knowledge.




Figure 3 Monitoring and evaluation framework for the JMP



### 4.1 Project progress reporting

The format of the quarterly traffic light report and the annual project delivery report is shown below.

### Format of quarterly status report

Project No.	Project Name	Lead Partner	Status	Comment
				No comment required
				Comment describing delay and remedies
				Comment describing delay, remedies and risk of project not being delivered

### Format of annual report by partners

Project No.	Project Name	Lead Partner	Completed yes/no	What was delivered?	Fund source	Funds expended	Follow up works required?

In addition to the reporting in table form on all JMP projects, the pro-forma for quarterly reporting and annual reporting should include a section describing progress in key 'flagship' JMP strategies and projects such as Dharnya revitalisation, Top Island gathering place, and others (see list in Appendix 2 template).

#### Annual reporting by YYTOLMB on JMP implementation

Progress on the implementation of the JMP will be reported to the State through the YYTOLMB's annual report. This will draw on the partners' quarterly/annual reporting and the annual review workshop. It should include:

- a summary of the joint management projects and activities that have either been completed or were in progress during the year
- key activities by which Yorta Yorta knowledge and culture was incorporated into park management
- the aggregate level of funds spent by the partners on JMP projects and activities during the year
- annual progress against the simplified measures and targets set out in Section 4.2 below, with a comprehensive outcomes report after the 5-year review.

## 4.2 Outcome evaluation

The JMP sets out measures and 5-year targets for evaluating outcomes and success in achieving the JMP *objectives*. Those measures and targets are shown in the appendix and should be evaluated in detail at the 5 yearly outcomes review. It is not practical to evaluate the full range of outcomes each year but 'snapshot' evaluation of a simplified set of outcome measures against the JMP objectives (see Section 2) should be developed and included in the Annual Report.

#### Simplified outcome measures for annual review by expert opinion

This snapshot of outcomes would be developed through a discussion of partners at the annual programming and review workshop, drawing on expert opinion and local knowledge to answer the simplified set of questions below.

"In the last 12 months has there been consolidation, progress or improvement in:

- Yorta Yorta participation in management decision-making, operations and employment?
- increasing the understanding and application of Yorta Yorta knowledge and cultural practices to the management of Country?
- the control of invasive animal and plant threats including the removal of feral horses?
- restoration of traditional environmental water flows?

- expansion of cultural burning?
- survey, mapping and protection of cultural heritage?
- revitalisation of the Dharnya precinct as the park gateway and the hub for presenting and promoting Yorta Yorta culture to visitors?
- establishment of a Yorta Yorta gathering place?
- the sustainability of visitor use through information, access, services and regulation?
- joint management processes and capacity?"

#### Outcome evaluation after 5 years and 10 of JMP implementation

A comprehensive evaluation of outcomes should be undertaken at the 5-year midpoint and 10-year endpoint of the JMP. The YTTOLMB should commission an evaluation that draws together a) existing monitoring information collected by the partners and b) additional information relating to the joint management process and the recognition and inclusion of Yorta Yorta knowledge and culture. This evaluation should combine quantified measurements of park conditions as well as expert opinion similar to the annual outcomes review. Recommended outcomes and indicators to be evaluated are shown in Table 1 on the next page. These align to the JMP objectives but in some cases an objective has been split into several outcomes. The indicators and monitoring processes may need to be adapted over time, to take account of future changes in monitoring undertaken by the partners.

### 4.3 Annual calendar for governance requirements

The key governance, monitoring and evaluation tasks throughout the year are summarised in Table 1.

Table 1 Annual governance calendar

Requirement	Timeframe	Accountability
Traffic Light Reports by project leads	Quarterly	Partners
Mid year review of 'red light' projects	December	Reports – partners; review by YTTOLMB
Annual review and priority-setting workshop	early May	Convened by YTTOLMB, attendance by all partners
Confirmed priority strategies for forthcoming financial year circulated to all partners	mid May	YTTOLMB Executive Officer
End-of-financial year project reports	late May	Partners
Approved projects for financial year submitted to YTTOLMB for endorsement	mid June	Project Steering Committee
YTTOLMB Annual Report including JMP implementation report, submitted to Secretary DELWP	tbc	YTTOLMB and Executive Officer
Periodic review of project progress and approval of any required variations	Quarterly	Project Steering Committee
Board meeting papers on key issues	As required, submitted one week prior to meeting	Partners, Executive Officer
Requests to partners to attend YTTOLMB meetings	At least 10 working days prior	YTTOLMB Executive Officer

Table 2 Outcomes and indicators to be evaluated after 5 and 10 years

<b>Outcome</b>	<b>Indicator</b>	<b>Monitoring process</b> <i>(new processes shown in italics)</i>	<b>5 year targets set in JMP</b>
Recognition and inclusion of Yorta Yorta knowledge and culture in management	Effective joint management through the governance and communication framework Effective operation of the Joint Management Ranger team	<i>Effective sharing of knowledge and decision-making by Board and partners</i> <i>Efficient and timely reporting by Board and partners</i>	JMP implementation governance transitioned by negotiation between YYNAC and the State of Victoria, through an agreement Negotiated measures to enable sole management enacted in transition plan
Ability to manage, gather on and continue to use this part of their Country	Completion of Dharnya revitalisation Establishment of Top Island as a gathering place	<i>Dharnya project reports</i> <i>Top Island project report</i>	Yorta Yorta area on Top Island set aside
Development and application of the combined skills and knowledge of Yorta Yorta and the State in caring for the park	Effective opportunities and operation of the Parks Victoria joint management ranger team Effective opportunities and operation of the Woka Walla team in delivering on-Country works in the park Practical implementation of cultural burning in the park	Extent and frequency of Woka Walla works Memorandum of Understanding established and operating enabling Yorta Yorta participation in fuel reduction and cultural burns Number of Yorta Yorta personnel with General Fire Fighter training Number of cultural burns delivered	Yorta Yorta actively employed in park environmental operations, and annual fire operations, including cultural burning within 2 years of JMP approval Annual training and development programs implemented for Woka Walla Team
Conservation of the park environment and restoration of healthy Country	Delivery of a water regime that supports the health of the park Forest condition Turtle population condition Fish population condition Waterbird population condition Moira Grass extent Reduction in feral horse impacts Impacts of other introduced grazing animals Control of fox predation on native animals Extent of Priority One invasive plants	Icon Site environmental watering & ecological monitoring (GBCMA - MDBA) River Red Gum and Black Box stand condition assessments (MDBA) Turtle monitoring (ARI - YYNAC) Fish monitoring (ARI - MDBA) Moira Grass monitoring (GBCMA -MDBA) Horse removal targets Pig, goat and deer numbers Fox numbers Parks Victoria and Woka Walla data on extent of area controlled	Icon site watering targets (see note 1 below) Targets specified in the Protection of Floodplain Marshes Strategic Action Plan 2020–2023 Targets specified in a renewed monitoring plan for the Barmah National Park and Ramsar Site Pets Plant and Animal Strategy

<b>Outcome</b>	<b>Indicator</b>	<b>Monitoring process</b> <i>(new processes shown in italics)</i>	<b>5 year targets set in JMP</b>
Conservation of the cultural heritage and cultural values	Extent of cultural mapping Protection of sites known to be significantly at risk of damage	<i>Survey and mapping of cultural sites</i> <i>Proportion of at-risk sites where protection measures have been undertaken</i>	Yorta Yorta cultural mapping complete and priority impacts controlled
Provide services for all Victorians and visitors to enjoy, understand & respect the park	Visitor numbers Visitor satisfaction with services Visitor compliance with regulations	<i>Traffic counts on park entry point(s)</i> <i>Parks Victoria periodic visitor survey</i> Number of warnings and infringement notices issued by rangers	Significant increase in satisfaction and appreciation between baseline and follow-up visitor surveys.
Conservation, promotion and interpretation of Yorta Yorta culture and shared history of the park	Effective operation of the revitalised Dharnya centre Improved and extended interpretative and education signage, information and programs	<i>Dharnya visitor feedback</i> <i>Parks Victoria periodic visitor surveys</i> <i>Number of JMP interpretation and education strategies delivered</i>	Implementation of at least 70% of scheduled Barmah Master Plan projects
Improved institutional capacity, employment and business opportunities for Yorta Yorta	Jobs and investment accessed by Yorta Yorta in Barmah park management, education and tourism	<i>Annual reports on joint management employment and expenditure from YYTOLMB, Parks Victoria, YYNAC and other partners</i>	At least 2 fulltime-equivalent additional positions resourced and created in YYNAC within 18 months of JMP approval.  At least ten additional Yorta Yorta employed in park management functions or engaged in businesses (at least 5 FTEs)

**Note 1: Environmental Watering Objectives for Barmah Forest (Seasonal Watering Plan 2021 VEWH)**

Enable carbon and nutrient cycling between the floodplain and river through connectivity	Maintain turtle populations including the broad-shelled turtle
Maintain or increase habitat for native fish and increase their population	Enhance the health of river red gum communities and aquatic vegetation in the wetlands and watercourses and on the floodplain
Maintain or increase frog populations	Promote the growth of floodplain marsh vegetation communities, with a particular focus on increasing the extent of Moira grass
Protect forest waterways from increased erosion	Provide feeding and nesting habitat for the successful recruitment of colonial nesting waterbirds
	Reduce the risk of low-oxygen events in summer



## 5 JMP implementation priorities

### 5.1 Criteria for setting implementation priorities

The implementation of Joint Management Plan strategies has been prioritised according to the extent to which they progress the JMP objectives and deal with key risks and opportunities.

- Strategies that progress the *objectives for joint management*:
  - a. recognising the Yorta Yorta as First Nation People of the Barmah National Park and enabling them to enact their rights and cultural responsibilities to manage, restore the health of, gather on and continue to use this part of their Country
  - b. developing and applying the combined skills and knowledge of Yorta Yorta and the State in caring for the park
  - c. improving the wellbeing and prosperity of Yorta Yorta people and communities across the region through employment, business and tourism opportunities
  - d. providing institutional support and capacity for Yorta Yorta to effectively deliver joint management.
- Strategies that address the highest risks to the *health of Country* (p85 JMP):
  - e. impacts on floodplain marshes by feral horses, pigs, deer and other invasive species
  - f. invasion by exotic plant species
  - g. invasion of marshes and waterways by River Red Gum
  - h. predation of turtles and other culturally important animals by foxes and cats
  - i. timing, extent and depth of watering regimes
  - j. invasion and spread of exotic fish species.
- Strategies that improve knowledge and conservation of *Yorta Yorta culture and cultural heritage* protection of sites known to be at risk of disturbance
  - l. survey and mapping of cultural heritage
  - m. increasing opportunities for on-Country cultural practices in the park
- Strategies that provide access and services improvement of interpretation, education and promotional facilities and materials
  - p. improved integration of the park into regional tourism activities and information.

### 5.2 Constraints and risks to implementation

There are significant risks to project completion:

- inadequate resourcing
- ongoing COVID impacts on training and other gatherings
- interruptions to park access and operations due to flooding
- the level of fire season demands on personnel.

### 5.3 Phase 1 implementation priorities – 2021-22 and 2022-23

Priorities strategies and projects to implement those strategies have been identified for Years 1 and 2 as shown below. More details of the Years 1 & 2 projects are given in Appendix 4. Projects have been numbered using a combination of the year of their implementation (eg '22') and the JMP strategy they relate to (eg IG4). Projects which carry over into a further year should be renumbered as that year.

ID No.	Project
<b>Implementation and governance</b>	
22IG4	JMP Implementation Plan
22IG7.1	Dharnya precinct working group
22IG7.2	Operations/licences working group
22IG7.3	Water management working group
22IG7.4	Fire management working group
<b>Environment</b>	
22E3.1	Feral horse removal
22E3.2	Feral horse rehoming
22E3.3	Community engagement – feral horses
22E3.5	Moirra Grass monitoring
22E3.6	Invasive herbivore control
22E3.7	Giant Rush control
22E4.1	Fox control
22E4.3	Priority one weed control
22E6	Volunteer engagement - invasive animals
22E10	Turtle research and monitoring
22E14	Bee research and monitoring
22E16	Native fish recovery
22E19	Wetland bird conservation & monitoring
22E23	Environmental watering of floodplains
22E24	Environmental watering - cultural values
22E29	Cultural burning and fire partnership
<b>Authorised uses</b>	
22AU3	Management of water infrastructure
22AU5	Levee management
22AU7	Apiary management
22AU9	Licence and permit management

ID No.	Project
<b>Yorta Yorta cultural heritage</b>	
22YYC4	Yorta Yorta cultural mapping
22YYC5	Yorta Yorta cultural site protection
22YYC6	Yorta Yorta cultural gathering place
22YYC7	Resource use arrangements
22YYC8	Cultural interpretation plan
<b>Community connection and partnerships</b>	
22CCP1	Community JMP updates
22CCP3	Cross-cultural knowledge sharing
22CCP8	Increased Woka Walla operations
<b>Visitor experience</b>	
22VE1	Road and track network plan
22VE2	Southern boundary access management
22VE3	Road and track re-alignments
22VE13	Gulpa Gaka zone visitor planning
22VE14	Generator management
22VE15	Fireplace management
22VE16	Campfire regulation
22VE22	Boat ramp improvements
22VE26	Regional tourism improvements & MRAT
22VE33	Permitted uses information
22VE35	Emergency markers
22VE38	Dharnya boundary and regulations
22VE39	Dharnya revitalisation
<b>Research</b>	
22R4	Research partnerships

<b>Basic park management</b>
<p>Maintain roads and tracks (subject to park water levels)</p> <p>Servicing of toilet facilities, collection of litter &amp; removal of graffiti, servicing of petrol operated minor plant.</p> <p>Provide interpretation and education services in the park via IIE Rangers.</p> <p>YY Rangers &amp; II&amp;E Rangers work with YYNAC to develop local cultural content for JR and other educational purposes.</p> <p>Funding from PV district tree budget to address tree risk in visitor sites. Seek additional funding for Morgan’s Mill tree risk assessment.</p>

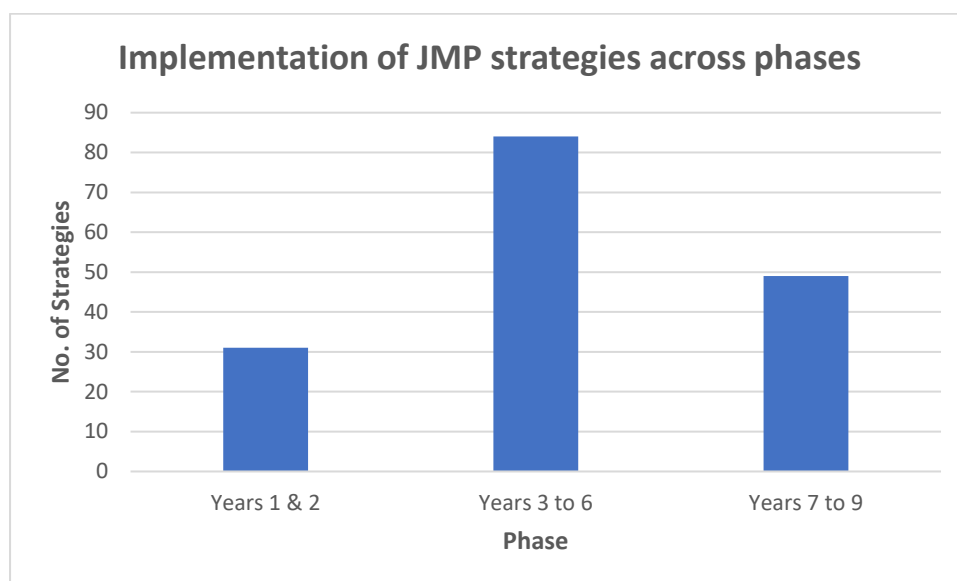
## 5.4 Phase 2 and 3 implementation priorities

Implementation priorities have been identified for Phases 2 and 3. These together with the Phase 1 projects above, are detailed in Appendix 5. It is important to recognise that priorities beyond Phase 1 are indicative and will need to be reviewed each financial year through the governance processes in this plan. Implementation will be affected by variable conditions in the park including the extent of annual flooding, unpredictable events such as bushfires, and also by the level of available funds and resources.

Implementation priorities have been staged to be achievable within the timeframe of each phase – see chart below. Approximately two-thirds of the total strategies are phased to be implemented by Year 6.

Note, that some strategies will be implemented in two phases while others are ‘ongoing’ and will be implemented across the entire implementation period.

Figure 4 Profile of implementation across the phases



### 5.5 Resourcing for 10-year priorities and ‘likely project focus’ in Phases 2 and 3

The indicative 10-year priorities contained in Appendix 5 include, and a broad estimate of the resourcing level likely to be required to implement each strategy – ‘low’, ‘mid’, or ‘high’ – and a description of the ‘likely project focus’ in phases 2 and 3. (Note: the first year of JMP implementation occurred in 2020/21 prior to this plan. This plan therefore programs the 10 year life of the JMP across nine years, not ten).

It is not feasible in this plan to give actual budget estimates for projects to implement a strategy until the scope of the project in a particular phase is decided (eg what length of track is to be re-aligned for cultural heritage protection?). Instead, broad estimates of the likely resourcing required for overall implementation of the strategy are provided. This will allow the Board and partners to have a common understanding of the scale and complexity of implementing the various strategies.

The resourcing levels indicate costs as follows:

Low =	up to \$15,000
Moderate =	\$15,000 to \$50,000
High =	over \$50,000

Several qualifications on these estimates must be noted:

- ‘resourcing’ includes all potential resources and costs – labour and overheads, contract costs, operating costs, capital costs etc
- the level indicates resources required that are **additional** to the existing resources of the partner organisations responsible for delivery, i.e. additional personnel, contractors, consultancies, operating funds.

The resourcing estimates should be revised through the Funding Prospectus process (see Section 3.6) as the scope of projects is progressively defined.

## Appendix 1 Joint Management Plan Partners

### Primary partners in the joint management of Barmah National Park.

Partner	Roles and responsibilities
Yorta Yorta Traditional Owner Land Management Board (YYTOLMB)	Responsible for enabling the knowledge and culture of the Yorta Yorta to be recognised and incorporated into the management of Barmah National Park, by carrying out the YYTOLMB's functions, powers and duties and preparing a JMP in accordance with the Traditional Owner Land Management Agreement (TOLMA).
Yorta Yorta Nation Aboriginal Corporation (YYNAC)	The legally recognised Traditional Owner Group Entity for the Yorta Yorta Nation, which nominates members to the YYTOLMB. YYNAC is also the Registered Aboriginal Party (RAP) under the <i>Aboriginal Heritage Act 2006</i> (Vic.), with decision-making responsibilities for protecting Aboriginal cultural heritage and other matters within the RAP area.
Department of Environment, Land, Water and Planning (DELWP)	Responsible for legislative functions and policy relating to the conservation and use of Victoria's environment, land and water, including climate change, and public land fire management. Shares responsibilities for joint management with the YYTOLMB under the <i>Conservation, Forests and Lands Act 1987</i> (Vic.). Jointly responsible for maintaining or improving the ecological character of the Barmah Forest Ramsar site - with Parks Victoria (land manager) and GBCMA (waterway manager). Responsible for fire and forest management, and environmental water allocations in Barmah Forest.
Parks Victoria	Responsible for the management and operation of Barmah National Park and adjacent parks and reserves, to protect, conserve and enhance the land and provide for appropriate use, enjoyment and appreciation. Responsible for recognising and supporting Traditional Owner knowledge of and interest in the land it manages. Administers its functions under the <i>Parks Victoria Act 2018</i> (Vic.) and is responsible for regulation of the national park under the National Parks Act.
Goulburn Broken Catchment Management Authority (GBCMA)	Responsible for regional catchment and land protection, and waterway manager under the <i>Water Act 1989</i> (Vic.) for the waterways in the park. The designated icon site manager for implementation of The Living Murray environmental watering program in Barmah Forest.




## Appendix 2 Templates for Partners' Quarterly and Annual JMP Implementation Reports

### Partner's Quarterly Report on Implementation of the Joint Management Plan for Barmah National Park

Year: .....

Partner organisation: .....

#### 1. Projects being delivered this year by your organisation

Project No	Project Name	Budget	Fund Source	Status	Comment
					No comment required
					Comment explaining delay
					Comment describing delay, remedies and risk of project not being delivered

Note: For second quarter report (ie mid year report) please provide information as to whether 'red' status projects are likely to be delivered by financial year end and, if not, how resources should be re-directed.

#### 2. Any other significant management activities undertaken during the quarter?

(Describe)

.....

#### 3. Summary of any action by your organisation during the quarter on key strategies:

Key strategy	Summary of action
Dharnya precinct revitalisation	
Feral horse removal	

Other invasive animal control	
Invasive plant control	
Environmental watering	
Cultural burning	
Cultural heritage survey and mapping	
Top Island gathering place	
Information, access and services for sustainable visitor use	

**Prepared by**

.....(sign) ..... (name)

.....

Position

**Partner's Annual Report on Implementation of the  
Joint Management Plan for Barmah National Park**

Year: .....

Partner organisation: .....

**1. Projects being delivered this year by your organisation**

Project No.	Project Name	Completed yes/no	What was delivered?	Fund source	Funds expended	Follow up action required?

**2. Summary of progress on key Joint Management Plan strategies**

Key strategy	Summary description of progress during the financial year
Dharnya precinct revitalisation	
Feral horse removal	
Other invasive animal control	
Invasive plant control	
Environmental watering	
Cultural burning	
Cultural heritage survey and mapping	
Top Island gathering place	
Information, access and services for sustainable visitor use	

**3. Ongoing park management activities undertaken**

(e.g., ranger patrol, interpretation and education activities, track maintenance, facility maintenance etc) *(Describe)*

#### 4. Funds expended on implementation

*(Summary financial information)*

*Please provide information on any unfinished or additional works required next financial year, or any opportunities to redirect unspent funds on other JMP projects*

#### 5. Progress towards JMP objectives

The results of the annual snapshot evaluation of JMP implementation effectiveness are shown in the table below:

Outcome	Summary description of progress during the financial year
Yorta Yorta participation in management decision-making, operations and employment	
Increasing the understanding and application of Yorta Yorta knowledge and cultural practices to the management of Country	
Control of invasive animal and plant threats including removal of feral horses	
Restoration of traditional environmental water flows	
Expansion of cultural burning	
Survey, mapping and protection of cultural heritage	
Revitalisation of the Dharnya precinct as the park gateway and the hub for presenting and promoting Yorta Yorta culture to visitors	
Establishment of a Yorta Yorta gathering place	
Sustainability of visitor use through information, access, services and regulation	
Joint management processes and capacity	

#### 6. Key issues and risks for future implementation

**Prepared by**

.....(sign) ..... (name)

.....Position



## Appendix 3 Template for YYTOLMB meeting papers by partners

(This template provides a standard format for meeting papers where partner organisations wish to bring matters to the attention of the Board, or where the Board has requested a paper on a matter from the partner.)

### Yorta Yorta Traditional Owner Land Management Board Meeting Paper

Partner organisation preparing

paper:.....

Subject:.....

.....

Date:.....

Summary of issue or proposal to be considered *(One or two sentences)*

.....  
.....  
.....  
.....

Recommendation to the YYTOLMB:

.....  
.....

---

Background

Issue to be considered

Reasons for recommendation and any other options

Financial, community, safety or other impacts/risks of the recommendation

Approved by:

.....(signature)

.....(name)

.....(organisational position)

## Appendix 4 Priority JMP Projects for Implementation 2021-22 and 2022-23

Strategy No.	Strategy	Lead	Support	Projects -2021-22
	<b>ENVIRONMENT</b>			
	Reduce the impacts and restore the health of the floodplain marshes of the park through a range of actions:			
E3	E3.1 Remove all feral horses from the park through staged reduction in the population density of horses by effective and integrated control programs primarily through two control methods: (i) passive trapping and rehoming and (ii) ground shooting of free-ranging horses using professional shooters.	PV		<b>Horse removal (Project 22E3.1)</b> Trapping and rehoming operations to be conducted in Spring and Autumn 2022 (where possible). Targeted shooting operations and trapping operations (where possible).
	E3.2 Ensure opportunities are provided for community members to rehome horses, and that protocols and safeguards for horse welfare and public safety during the control program are strictly observed.	PV		<b>Horse rehoming (Project 22E3.2)</b> Offer regular EOI and ongoing communications with rehoming groups. Review trapping operations by equine vet, regularly update procedures. Convene PV working group & expert reference group on feral horse program. Schedule trapping in low visitation periods, use qualified contractors under strict standards.
	E3.3 Increase community support for rehoming captured horses and horse management, and build community support for the success of feral horse management in the Park.	PV		<b>Community engagement – horses (Project 22E3.3)</b> Continue communication with public and rehoming groups such as the Barmah Brumby Preservation Group
	E3.5 Monitor the effectiveness of horse control in reducing population abundance, improving the extent of the Moira Grass community and reducing wetland impacts.	PV	GBCMA, YYNAC	<b>Moira Grass monitoring (Project 22E3.5)</b> GBCMA funding RAMSAR – 3yr period monitoring <u>only</u>
	E3.6 Reduce the population densities of other large invasive animals including feral pigs, deer, goats, as part of control programs across the park (also implements E4.2).	PV	GBCMA, YYNAC, DELWP	<b>Invasive herbivore control (Project 22E3.6)</b> Reduce rising deer numbers; maintain pig and goat numbers at low levels Identify funding additional to BRP Estimated cost to run program: \$27,000 per month 2 x (4night) operations per month (2 x Contractors, 2 x PV Staff, Apr, May, Jun, Jul, Aug, Sep, Oct tbc)
	E3.7 Reduce the extent of encroaching native species (Giant Rush and River Red Gum) to restore the boundary between forest and grassland open plains using fire and other methods.	PV DELWP	GBCMA, YYNAC	<b>Giant Rush control (Project 22E3.7)</b> Implement Giant Rush burn on Steamer Plain and localised removal of River Red Gum saplings. Research into most effective approach to manage species such as giant rush - treatment prior to fire. Joint Fuel management burn scheduled 2022-23. Ongoing monitoring required to identify appropriate conditions for burn – opportunity to bring burn forward. Set up Working Group to continue to explore appropriate treatment – YY/PV/DELWP.

Strategy No.	Strategy	Lead	Support	Projects -2021-22
	Control/eradicate invasive animal and plant threats to forests/woodlands:			
E4	E4.1 invasive predators – foxes and cats (also implements E11)	GBCMA /PV	YYNAC	<b>Fox control (Project 22E4.1)</b> Continue fox control with Woka Walla team delivering the fox baiting RLP funding. Explore monitoring program for cats & control options. Develop JM Rangers’ skills in planning/delivery of invasive species programs. Deliver fox baiting of boundary with neighbour properties using Good Neighbour funds.
	E4.3 invasive plants (particularly plants identified as Priority One threats in the Strategy)	PV	YYNAC	<b>Priority one weed control (Project 22E4.3)</b> Contain/control transformer species (Arrowhead <i>Sagittaria</i> , Horehound <i>Marrubium</i> ), other Priority One weeds. Eradicate localised woody weeds.
E6	Engage with volunteer hunting groups to assist with invasive animal control programs.	PV		<b>Volunteer engagement for invasive animal control (Project 22E6)</b> Co-ordinate supervised Sporting Shooters Association Australia pest animal removal operations. Cost of running a SSAA operation on weekends (When SSAA available) is typically about three staff for 2 days each and incidentals of about \$500 per weekend.
E10	Undertake further research to identify nesting locations and determine populations of Bayadhera Broad-shelled Turtle and other turtle species.	YYNAC	DELWP	<b>Turtle research and monitoring (Project 22E10)</b> Monitor turtle movements via GPS loggers and determine conservation needs. Seek funding for the purchase of monitoring equipment. Explore the opportunities with Turtles Australia to assist with research. Collaborate with ARI (Katie Howard) to enhance current research program. Consider expansion to understand the possible impacts on native species such as goanna relying on turtle eggs as a food source. Provide more opportunity for PV staff/JM Rangers to be included in programs as part of their role.
E14	Undertake research to determine the distribution and condition of native bees in the park.	PV	YYNAC, ARI	<b>Bee research and monitoring (Project 22E14)</b> Scope out native bee research for an on-ground project in 2022-23. Identify location of native bee populations. Use existing resources to make bee boxes Seek direction from the YY Elders. Consult with the broader local community – wildflower groups etc to increase knowledge & understanding of native bees. Identify funding opportunities for research program to enable JM Rangers & YY Community members to assist with program development and research.
E16	Implement programs with the Victorian Fisheries Authority (VFA) to re-introduce or re-stock native fish species, including Southern Pygmy Perch, and Long-tailed Catfish.	GBCMA YYNAC	PV	<b>Native fish recovery (Project 22E16)</b> Liaise with VFA-and GBCMA to prioritise Barmah NP in the regional/state Native Fish Recovery-program.–Further research opportunities to identify species and numbers of

Strategy No.	Strategy	Lead	Support	Projects -2021-22
				native fish populations – focus on smaller bodied fish. Identify locations with appropriate food sources and habitat to ensure successful re-introductions of native fish. Encourage scientist/TO on-Country meetings to explore and agree on actions.
E19	Implement watering strategies and control introduced predators to protect wetland-dependent birds especially threatened species including Australasian Bittern and Nankeen Night Heron, and to promote colonial nesting events, particularly for ibis, egrets and spoonbills. Monitor breeding success.	PV/ YYNAC	GBCMA	<b>Wetland bird conservation and monitoring (Project 22E19)</b> Deliver Australasian Bittern monitoring project (Bruce Wehner PV lead with JM Rangers). Monitoring of other species (Keith Ward GBCMA lead). Share research and identify opportunities for YYNAC to participate and provide cultural content.
E23	Provision of an appropriate water regime (frequency, timing, duration, depth, variability, and extent) to increase the extent and diversity of floodplain and wetland vegetation, with emphasis on re-invigorating marsh species eg Moira Grass.	TLM	YYNAC	<b>Environmental watering of floodplains (Project 22E23)</b> Ongoing discussions by YYNAC with relevant agencies
E24	Help to sustain healthy Country through the use of environmental water flows. Use environmental flows of Walla to sustain ephemeral habitats and support culturally important species such as turtles.	TLM	GBCMA, PV	<b>Environmental watering for cultural values (Project 22E10)</b> Identification of cultural values by YYNAC for inclusion in seasonal water proposals.
E29	Develop knowledge and skills in cultural burning and incorporate into fire management in the National Park through partnership between Yorta Yorta and fire management agencies.	YYNAC	DELWP, PV	<b>Cultural burning and fire partnership (Project 22E29)</b> Finalise DELWP-YYNAC Fire MOU to facilitate greater participation in burning program. Deliver burns nominated and approved on DELWP Plan. Pursue TO -relevant General Fire Fighter (GFF) training opportunities for YYNAC staff & JM Rangers via DELWP. Develop cultural content components to be delivered during training. Share knowledge & skills & identify opportunities for ongoing fire role development via monthly YYNAC/DELWP/PV fire meetings. Discussions regarding how winters burns can be delivered. Developing monitoring programs pre/post burn treatment YYNAC identification primary and secondary cultural objectives/outcomes for burns and the updating of the Fire Management System to include this content.
<b>AUTHORISED USES</b>				
AU3	Review regulators and other water infrastructure in the park with Goulburn–Murray Water, in consultation with GBCMA and DELWP, to confirm current needs. Determine ownership and functional responsibilities for operation and maintenance. License required structures under Sec 27 of the National Parks Act subject to compliance upgrades. Decommission/rehabilitate redundant structures.	PV	YYNAC, MDBA, GMW	<b>Management of water infrastructure (Project 22AU3)</b> Issue Section 27 NP Act consents over assets and infrastructure owned by MDBA and Goulburn Murray Water with appropriate conditions. Align to audit of water infrastructure. Explore opportunity for training of YNAC staff to manage/use water infrastructure with risk assessment.

Strategy No.	Strategy	Lead	Support	Projects -2021-22
AU5	Install traffic control measures to prevent unauthorised vehicle passage along the levee on the southern boundary of the National Park. Allow the levee to weather away unless benefiting parties seek authority to repair or maintain it under a Levee Maintenance Permit.	PV	YYNAC, GBCMA	<b>Levee management (Project 22AU5)</b> Implement as part of road and track access plan - VE1 (Project Concept PC06)
AU7	Update the apiary site plan for the park to effectively locate, license and manage sites. Consult with apiculture groups and stakeholders. Locate sites away from Reference Area Zone. Consider native bee research when available.	PV	YYNAC, YYTOLMB	<b>Apiary management (Project 22AU7)</b> Revise the apiary plan for the park and consulting with apiculturists. Installation of bee site location ID markers. Review compliance with licence terms (DELWP are licence managers)
AU9	Review existing tour operator licences and other permits that may be affected by the proposed changes to access or allowable activities.	PV	YYNAC	<b>Licence and permit management (Project 22AU9)</b> Audit review to identify any conflict with JMP
	<b>YORTA YORTA CULTURE AND CULTURAL HERITAGE, SHARED HISTORY</b>			
YYC4	Update and expand mapping of cultural heritage in the National Park, especially in areas at risk of disturbance such as popular visitor areas and access routes.	YYNAC	PV	<b>Cultural mapping (Project 22YYC4)</b> Update & expand mapping of cultural sites. Clarify partner roles in identifying sites. Train YY Rangers & YY staff in GIS mapping system. Purchase equipment. Training JM Rangers & YY staff in recording of sites. Develop process for data collection, sharing data and data use including compatible use by PV & YYNAC. Audit known sites to assess and make protection recommendations. Explore opportunities to expand II&E programs to include cultural content – assisting with data collection (eg via ASHE school, Shepparton).
YYC5	Protect cultural heritage from the impacts of visitor use and management operations.	YYNAC	PV	<b>Cultural site protection (Project 22YYC5)</b> Implement Sandridge Track realignment (VE3) and implement protection at other high priority sites such as Garaddha Mowla. Cultural assessment of Sandridge Trk - PV to identify funding source (Murray River Adventure Trail or Victoria's Great Outdoors?). Review realignment of Sandridge Trk to identify the most effective strategy for protection of Cultural Heritage after CH assessment
YYC6	Set aside an area on part of Top Island outside the Reference Area Zone, for Yorta Yorta cultural gatherings to enable community and customary practices to be undertaken and for cultural knowledge sharing and instruction. Establish processes for managing and monitoring access and use.	PV - YYNAC		<b>Yorta Yorta cultural gathering place (Project 22YYC6)</b> Identify area and complete set aside process. Resolve permissible activities under National Park legislation with aspirations of YYNAC. Develop monitoring program for Top Island. Review access to Top Island from watercraft to understand if there is requirement for management/ signage. (PV).

Strategy No.	Strategy	Lead	Support	Projects -2021-22
				Provide direction on management of set aside compliance with lore & cultural practices. Develop communications strategy for the YY Community providing cultural content/education on seasonal harvesting. (YYNAC)
YYC7	Pursue legal arrangements, through the Traditional Owner Settlement Act or other processes, to recognise rights to collect and use traditional plant and animal foods and materials in the set aside area and/or other parts of the park.	YYNAC	DELWP, PV	<b>Resource use arrangements (Project 22YYC7)</b> Investigate rights under TOS Act and/or other legislative mechanisms ie new Public Land Act, Game Management Strategy etc. regarding harvesting of flora & fauna. (YYNAC). Convene workshop for YY community to discuss management and compliance of cultural practices.
YYC8	Develop a cultural interpretation plan for the National Park, including improved information and interpretive materials about Yorta Yorta culture for visitors as well as partners and workers in the National Park, including online and printed information, signs, and training and induction opportunities.	YYNAC	PV	<b>Cultural interpretation plan (Project 22YYC8)</b> Commence work in 2022/21 and complete in 2022/23 <ul style="list-style-type: none"> <li>• Audit of available information and interpretive materials identify gaps</li> <li>• Identify opportunities to include the use of language</li> <li>• Set up working group cultural content and how it can be used</li> </ul>
	<b>COMMUNITY CONNECTIONS AND PARTNERSHIPS</b>			
CCP1	Periodically update the local and broader community and partners about progress on implementing the Joint Management Plan (see IG8).	YYTOLM B	All	<b>Community JMP updates (Project 22CCP1)</b> Publish a twice-yearly update on JMP implementation progress. Ensure the update is not limited to online distribution and is accessible by all Yorta Yorta community and members of the public.
CCP3	Establish cross-cultural knowledge sharing projects for water management and fire management in the National Park which increase water and fire managers' understanding of Yorta Yorta priorities and traditional knowledge, and enable Yorta Yorta to understand and participate in agency policy formulation and decisions. Also implements E24 and E29.	YYNAC	All	<b>Cross-cultural knowledge sharing (Project 22CCP3)</b> Identify National best practice and case studies from other TO burning and environmental water programs – skills and knowledge sharing opportunities. Provide direction on sharing of intellectual property and TO knowledge - specific to Country. Explore opportunities for community to participate in burning.
CCP8	Implement an immediate increase in the participation of the YYNAC Woka Walla Team in park operations and works and develop a longer-term plan for building Woka Walla skills and capacity as part of the economic development program.	PV	YYNAC	<b>Increased Woka Walla operations (Project 22CCP8)</b> Explore opportunities in: <ol style="list-style-type: none"> <li>1. RLP fox baiting</li> <li>2. Ramsar projects</li> <li>3. Joint Fuel Management Planned burning participation</li> </ol> Identify funding opportunities to enable increased participation of Woka Walla
	<b>VISITOR EXPERIENCE</b>			
VE1	Develop a plan for managing and maintaining the park road and vehicle track network to designate the main public access routes to visitor areas, and close unnecessary park entry points and tracks to public use, and integrate the network with	PV	YYNAC, DELWP	<b>Road and track network plan (Project 22VE1)</b> Develop a road and track access plan including stakeholder engagement Signage & maintenance ongoing Input from DELWP Strategic access policy

Strategy No.	Strategy	Lead	Support	Projects -2021-22
	adjacent Shire roads. Ensure vehicle access for bushfire and other emergency management is not compromised. Engage closely with stakeholders and management agencies in detailed development of the plan.			Project Concept PC06 Barmah Track Rationalisation further develop concept to prioritise strategies identified, community engagement and scope cost of project.
VE2	Investigate the legal requirements in consultation with the Moira Shire to revoke the present road reservation on sections of the National Park's southern boundary, and revoke if practical.	PV	YYNAC, DELWP	<b>Southern boundary access management (Project 22VE2)</b> Implement as part of road and track access plan under VE1 – Project Concept PC06
VE3	Re-align retained public and management-vehicle-only roads and tracks where necessary to reduce impacts on cultural sites and significant native vegetation.	PV	YYNAC	<b>Road and track re-alignments (Project 22VE3)</b> Complete CHMP for Sandridge Track and implement re-alignment where necessary to protect cultural sites. Refer YYC5
VE13	Introduce a booking system and fees for overnight camping in designated camping areas with facilities, comparable to fees in other Victorian national parks. Investigate arrangements to provide community fee concessions and re-invest fees in the maintenance of visitor facilities and services.	PV	YYTOLM B, YYNAC	<b>Gulpa Gaka zone visitor planning (Project 22VE13)</b> Scope out the facilities needed to support fee-based bookable camping in the Gulpa Gaka zone. Develop map to identify potential camping sites.
VE14	Allow the use of camping generators only in designated sections of the Dhungalla Zone and Gulpa Gaka Zone, between sunrise and sunset and within reasonable noise levels that do not cause nuisance. Ensure designated areas and time restrictions are clearly communicated and mapped in visitor information	PV	YYNAC	<b>Generator management (Project 22VE14)</b> Develop a new visitor guide/map for the park that shows JMP controls on camping, fires, firewood collection, chainsaw & generator use, bait collection, horse-riding, boating, dogs etc. (see VE33, 34 and 37) (PV Project Concept PC02)
VE15	Ensure constructed fireplaces are provided in a) all designated camping areas and b) those dispersed camping locations in the Dhungalla Zone where environmental and cultural values are identified as at risk.	PV	YYNAC	<b>Fireplace management (Project 22VE15)</b> Construct fireplaces in designated camping areas provide for the sustainable continued use of solid fuel fires in the Park. (PV Project Concept PC04) Develop plan for site identification Develop plan for installation.
VE16	Allow campfires all year round within authorised constructed fireplaces where they are provided. Allow dispersed in Dhungalla Zone, except within 50 metres of any authorised public fireplace provided. Do not allow any dispersed campfires during a declared fire danger period. Establish additional constructed fireplaces in the Dhungalla Zone. Educate visitors to use constructed fireplaces, and enforce their use.			<b>Campfire regulation (Project 22VE16)</b> Implement via VE15 and VE33. Develop plan for site identification Develop plan for installation.

Strategy No.	Strategy	Lead	Support	Projects -2021-22
VE22	Work with Better Boating Victoria to investigate the establishment of additional boat ramps at appropriate locations between The Gulf and Sand Ridge Track, and at Ulupna Island, and upgrade boat access at Crawford's Road			<b>Boat ramp improvements (Project 22VE22)</b> Upgrade boat access at Crawford's Road.
VE26	Collaborate with Murray Regional Tourism to jointly progress the Barmah National Park Tourism Development Plan, with a focus on nature-based and Indigenous tourism, and on the development and promotion of the Murray Valley Adventure Trail (MVAT) - see CCP10.	PV	YYNAC	<b>Regional tourism improvements and MVAT (Project 22VE26)</b> Progress implementation of signage and other actions through the Regional Development Victoria project control group process.
VE30	Undertake baseline and follow-up surveys of visitors to measure visitor numbers, and satisfaction and the effectiveness of joint management actions relating to visitors.			
VE33	Ensure pre-visit information and park entry signage provides clear advice to visitors about restrictions on campfires, generators, chainsaws, dogs, and off-road mountain bike use. Also implements VE17, VE 34 and VE37.			<b>Permitted uses information (Project 22VE33)</b> Develop a new visitor guide/map for the park that shows JMP controls on camping, fires, firewood collection, chainsaw & generator use, bait collection, horseriding, boating, dogs, visitor safety etc. (PV Project Concept PC02)
VE35	Establish ESTA emergency markers and signage in the park to assist with emergency management.	PV	DELWP	<b>Emergency markers (Project 22VE35)</b> Develop plan for ESTA Emergency Marker locations and commence installation. (PV Project Concept PC01)
VE38	Define the boundaries of the Dharnya Community Use Area and establish regulations under the provisions of the Parks Victoria Act.	PV	YYNAC	<b>Dharnya boundary and regulations (Project 22VE38)</b> Define the boundaries of the Dharnya Community Use area to enable regulation and fence the boundary behind muster yards (south eastern section)
VE39	Undertake improvements, through the Barmah Master Plan, to establish the Gulpa Gaka Zone as the accessible gateway to the park through a revitalisation of the Dharnya Centre and other visitor services in the VEA.	YYNAC	PV, DELWP	<b>Dharnya revitalisation (Project 22VE39)</b> Complete renovations to Dharnya Centre and surrounds
<b>GOVERNANCE AND IMPLEMENTATION</b>				
IG4	Develop a 5-year implementation schedule for the Joint Management Plan within 12 months of final plan approval, identifying actions and projects to deliver the strategies, timing, and lead and support responsibilities for projects.	YYTOLMB	All partners	<b>Implementation Plan (Project 22IG4)</b> Complete development of 5/10 year Implementation Plan. Hold a facilitated annual programming workshop with partners to confirm projects and resourcing.
IG7	Establish operational joint management groups through new or existing forums to address:	YYNAC	YYTOLMB	
	<b>IG7.1</b> Co-ordinated management of the park and the Community Use Area (including the Dharnya Centre), and Yielima	YYNAC	PV	<b>Dharnya precinct working group (Project 22IG7.1)</b> YYNAC & PV JMP Implementation Group monthly meeting YYNAC & PV Operational monthly meeting. JM Steering Group established.



Strategy No.	Strategy	Lead	Support	Projects -2021-22
	IG7.2 Management of significant licences, consents & permits for authorised uses	PV	YYNAC	<b>Operations/licences working group (Project 22VIG7.2)</b> Audit of current leases and licences Inclusion of special terms and conditions if/when necessary.
	IG7.3 Water management operations in the park	YYNAC	TLM, GBCMA	<b>Water management working group (Project 22IG7.3)</b> Maintain existing arrangements - YYNAC (Sonia Cooper) representation on BMOA Barmah, Millewa Operations Group, with GBCMA & MDBA.
	IG7.4 Fire management in the park, including the development of cultural burning practices and capabilities.	YYNAC	DELWP, PV	<b>Fire management working group (Project 22IG7.4)</b> Goulburn Fire District monthly meetings YY/DELWP/PV YYNAC to provide environmental aspirations - Objectives and outcomes to PV & DELWP for knowledge sharing and fire management understanding
<b>RESEARCH AND KNOWLEDGE</b>				
R4	Establish or maintain partnerships with research institutions and individual researchers. Ensure all research programs in the park are subject to Yorta Yorta approval through the joint management process, and that Yorta Yorta are fully and actively engaged in design and implementation of research.	YYNAC	PV  GBCMA	<b>Research partnerships (Project 22R4)</b> Establish clear process for research permits to be endorsed by YYTOLMB and YYNAC via the governance guidelines in the JMP Implementation Plan. Identify opportunities for YY community to be involved in research projects GBCMA RAMSAR program
<b>BASIC PARK MANAGEMENT AND MAINTENANCE</b>				
	Ranger patrol, enforcement and compliance	PV		Recurrent works
	Road and track maintenance	PV		Maintain roads and tracks (subject to park water levels) PV Ref: BAU02
	Visitor facility and asset maintenance	PV	YYNAC	Servicing of toilet facilities, collection of litter & removal of graffiti, servicing of petrol operated minor plant. PV Ref: BAU05 – Recurrent works
	Interpretation and education programs	PV YYNAC		Provide interpretation and education services in the park via IIE Rangers. YY Rangers & IIE Rangers work with YYNAC to develop local cultural content for JR and other educational purposes.
	Manage tree risk at visitor sites	PV		Funding from PV district tree budget to address tree risk in visitor sites Seek additional funding for Morgan's Mill tree risk assessment.

## Appendix 5 Indicative 10-year JMP Priorities for Implementation

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
<b>Environment</b>									
E1	Increase the understanding and application of Yorta Yorta knowledge and approaches to management of Country through knowledge exchange, training programs and through the planning and delivery of environmental programs by Yorta Yorta employees. Ensure Yorta Yorta are fully and actively engaged in authorising, designing & implementing research in the park (see R4).	Ongoing	Implement via individual environmental and cultural knowledge strategies below	Ongoing		Ongoing		YINAC, PV, DELWP	High
E2	Maintain and improve Barmah's ecological character as defined in its Ramsar site listing, prioritising the protection of environmental values at highest risk, currently floodplain marshes.	Ongoing	Implement via individual environmental strategies below	Ongoing		Ongoing		PV, GBCMA	High
E3	Reduce the impacts and restore the health of the floodplain marshes of the park through a range of actions: E3.1 Remove all feral horses from the park through staged reduction in the population density of horses by effective and integrated control programs primarily through two control methods: (i) passive trapping and rehoming where appropriate recipients are secured, and (ii) ground shooting of free-ranging horses using professional shooters.		Horse removal (Project 22E3.1)		Remove horses to achieve staged reduction targets. Implement targets and actions of the renewed <i>Strategic Action Plan: Protection of Floodplain Marshes</i> beyond 2023.		Remove horses as necessary to maintain population at reduced level.	PV	High
	E3.2 Ensure opportunities are provided for community members to rehome horses, and that protocols and safeguards for horse welfare and public safety during the control program are strictly observed.		Horse rehoming (Project 22E3.2)		Manage rehoming consistent with the renewed <i>Strategic Action Plan: Protection of Floodplain Marshes</i> beyond 2023.			PV	Moderate
E3	E3.3 Increase community support for rehoming captured horses and horse management, and build community support for the success of feral horse management in the National Park.		Community engagement – horses (Project 22E3.3)		Continue to build support for the success of the feral horse management program.	Ongoing		PV	Moderate
	E3.4 Re-instate Moira Grass thatch in areas of floodplain marsh to at least its 1982 extent.				Implement strategies to actively revegetate Moira Grass in floodplain marshes.		Implement targets and actions of the renewed <i>Strategic Action Plan: Protection of Floodplain Marshes</i> beyond 2023.	PV, TLM, GBCMA	Moderate
	E3.5 Monitor the effectiveness of horse control in reducing population abundance, improving the extent of the Moira Grass community and reducing wetland impacts.		Moira Grass monitoring (Project 22E3.5)		Maintain monitoring program		Maintain monitoring program	GBCMA, YINAC	Low
	E3.6 Reduce the population densities of other large invasive animals including feral pigs, deer, goats, and eradication of sheep, as part of control programs across the park (see E4).		Invasive herbivore control (Project 22E3.6)		Reduce population of pigs and deer, and other invasive animals as identified by monitoring.		Reduce large invasive herbivore populations/maintain numbers at low levels. Target species to be determined via 5-yearly outcome evaluation.	PV	High
	E3.7 Reduce the extent of encroaching native species (Giant Rush and River Red Gum) to restore the boundary between forest and grassland open plains using fire and other methods.		Giant Rush control (Project 22E3.7)		Continue programs to reduce the extent of encroaching native species		Review program in the light of 5-year outcomes review	GBCMA, YINAC	High
E3.8 Control Arrowhead to acceptable levels, where floodplain marsh communities are at risk.				Ongoing	Ongoing management and research in other control measures	Ongoing	Ongoing management and research into other control measures. Annual containment through spraying, Reporting in RLP funding	PV	High
E3.9 Collaborate on these actions through implementation of Parks Victoria's <i>Strategic Action Plan: Protection of Floodplain Marshes</i> in Barmah National Park and Barmah Forest Ramsar Site (SAP) 2020–2023.	Ongoing			Ongoing	Collaborate with Parks Victoria to review and renew the <i>Strategic Action Plan: Protection of Floodplain Marshes</i> for Barmah National Park	Ongoing		PV	Low
E4	Control and, where practical eradicate, invasive animal and plant threats to the River Red Gum and Box forests and woodlands of the								

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
	park, focusing on priority threats identified in the Barmah National Park and Ramsar Site Pest Plant and Animal Strategy:								
	E4.1. Invasive predators (foxes, dogs and cats)		<b>Fox control (Project 22E4.1)</b>		Maintain annual baiting program. Target foxes as a secondary species in shooting operations to control pigs and other introduced herbivores.		Maintain annual baiting program. Target foxes as a secondary species in shooting operations to control pigs and other introduced herbivores.	PV	Moderate
	E4.2. Invasive herbivores (pigs, deer, goats, rabbits)		Implement via E3.6		Maintain shooting programs to control pigs and goats via Regional Land Partnership, targeting deer as a secondary species. Seek resources for more intensive deer control.		Maintain shooting programs to control pigs and goats, targeting deer as a secondary species. Seek resources for more intensive deer control.	PV	Moderate
	E4.3. Invasive plants (particularly plants identified as Priority One threats in the Strategy).		<b>Priority one weed control (Project 22E4.3)</b>		Deploy available funds and staff capacity to control of plants listed as Priority One threats in the Pest Plant & Animal Strategy.		Deploy available funds and staff capacity to control of plants listed as Priority One threats in the Pest Plant & Animal Strategy.	PV, GBCMA	Moderate
E5	Eradicate any new or emerging invasive animal or plant populations before they become established.	Ongoing	Monitoring with projects to target emerging species.	Ongoing	Monitoring with projects to target emerging species.	Ongoing	Monitoring with projects to target emerging species.	PV	Moderate
E6	Engage with volunteer hunting groups to assist with invasive animal control programs.		<b>Volunteer engagement for invasive animal control (Project 22E6)</b>		Secure resources to enable key staff to deliver expanded projects with Sporting Shooters Association Australia.		Secure resources to enable key staff to deliver expanded projects with Sporting Shooters Association Australia.	PV	Moderate
E7	Renew the monitoring plan for the park's Pest Plant and Animal Strategy to take account of the SAP and to set achievable targets for control of invasive animals in the other parts of the National Park (see R3).				Update the Monitoring Plan. Secure ongoing funding for programs in areas of the park outside the floodplain marshes, and determine delivery arrangements and resourcing.	Ongoing		PV	Moderate
E8	Ensure invasive animal control programs in the park are integrated with control on the adjoining Yorta Yorta-owned Yielma property and the Community Use Area.	Ongoing	Maintain existing collaboration and integrated control works	Ongoing	Maintain existing collaboration and integrated control works	Ongoing	Maintain existing collaboration and integrated control works	PV	Low
E9	Assess the structure and ecological health of River Red Gum forest stands in the park, building on previous stand condition assessments by MDBA. Determine the need for treatments such as ecological thinning using fire, cutting or other means, incorporating monitoring results from River Red Gum removal on the boundary of marshes. Make use of the thinning byproduct for community firewood or campfire use in the park, as an incidental benefit only.				Review existing knowledge of forest stand condition and structure and determine the need for treatments or interventions. Develop proposal for pilot treatment project.		Implement pilot treatment project. Monitor and evaluate results, and adapt project accordingly.	PV, YNAC, GBCMA	High
E10	Undertake further research to identify nesting locations and determine populations of <i>Boyacherra</i> Broad-shelled Turtle and other turtle species.		<b>Turtle research and monitoring (Project 22E10)</b>	Ongoing		Ongoing		YNAC	Moderate
E11	Protect turtle nesting habitat from disturbance and control foxes in and around nesting locations (see E4).				Seek resources for ongoing fox control targeted at turtle habitat locations. Program is subject to water levels in park allowing access to target locations.	Ongoing		PV, YNAC	Moderate
E12	Educate visitors about reducing impacts on turtle habitat, including water contamination, turbidity and bank erosion.				Identify main impacts and behaviours posing threats to turtle habitat and nesting in collaboration with Arthur Rylah Institute researchers. Incorporate required messages in visitor information.	Ongoing		PV	Low

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
E13	Work with partner agencies to provide environmental and cultural water flows, particularly to sustain ephemeral wetland habitats for turtles and other animals during times of drought.				Continue to provide input into seasonal watering plans and river operations via The Living Murray Program.		Continue to provide input into seasonal watering plans and river operations via The Living Murray Program.	YYNAC, PV, DELWP	Low
E14	Undertake research to determine the distribution and condition of native bees in the park.		<b>Bee research and monitoring (Project 22E14)</b>		Develop and implement any required conservation actions arising from the research, including ongoing monitoring and conservation partners.	Ongoing		YYNAC, PV, DELWP	Moderate
E15	Work with Goulburn-Murray Water, MDBA, GBCVA and other partners to remove barriers to the passage of native fish, turtles and other aquatic species in waterways in the National Park.						Identify barriers, formulate and implement plan for progressive removal.	PV, GBCVA	Moderate
E16	Implement programs with the Victorian Fisheries Authority to re-introduce or re-stock native fish species, including Trout Cod, Southern Pygmy Perch, Murray Cod and Long-tailed Catfish.		<b>Native fish recovery (Project 22E16)</b>				Follow up restocking (subject to regional priorities)	PV	Moderate
E17	Reduce the impacts of exotic fish on native species where control methods are available, including promotion of Barmah as a key site for implementing the National Carp Control Plan.						Develop program of actions with Victorian Fisheries Authority and ARI, and implement	GBCVA	Moderate
E18	Support research into the management of other invasive fish species such as Eastern Gambusia and redfin, oriental weatherloach and goldfish including impacts on native fish re-introduction.	Ongoing					Explore research opportunities with ARI and develop program	GBCVA	Low
E19	Implement watering strategies and control introduced predators to protect wetland-dependent birds especially threatened species including Australasian Bittern and Nankeen Night Heron, and to promote colonial nesting events, particularly for ibis, egrets and spoonbills. Monitor breeding success.		<b>Wetland bird conservation and monitoring (Project 22E19)</b>					TLM	Moderate
E20	Ensure existing and potential nest trees for Superb Parrot are protected from damage or disturbance by fire operations, siting of visitor facilities and activities, and management programs. Monitor Superb Parrot population and breeding success.	Ongoing	Maintain existing monitoring and fire operations planning protocols to avoid damage. Ensure location and condition data is shared with YYNAC.	Ongoing				GBCVA, DELWP, YYNAC	Low
E21	Monitor populations of abundant native animal species in the park and develop control strategies, where necessary, to prevent overabundance.	Ongoing	Use annual JMP partners workshop to identify any emerging overabundance and determine actions required.	Ongoing				PV	Low
E22	Monitor the locations of threatened and culturally important plants and animals determine the need for any specific measures to ensure protection from park operations, visitor use or other disturbances. Integrate the requirements of threatened and culturally important plants and animals into planning for broader conservation works including invasive plant and animal control, and fire management.				Assess results of recent updated surveying work by Flood and need for protection or restoration actions.	Ongoing		YYNAC	Moderate
E23	Work with partner agencies to ensure that managed water regimes enhance the ecological character of the National Park, particularly floodplain marsh vegetation on open plains, including: E23.1. Provision of an appropriate water regime (frequency, timing, duration, depth, variability, and extent) to increase the extent and diversity of floodplain and wetland vegetation, with emphasis on re-invigorating floodplain marsh species eg Moira Grass.		<b>Environmental watering of floodplains (Project 22E23)</b>		Identify areas traditionally subject to flooding and work with water authorities to achieve adequate water delivery into those areas.	Ongoing		YYNAC (TLM)	Moderate
	E23.2. Continuing to minimise the frequency and magnitude of summer and autumn flooding of floodplain marshes (e.g. Steamer Plain, Hut Lake, Little Rushy Swamp and War Plain) caused by unexpectedly large rainfall events that lead to irrigation rejections, by instead diverting unseasonal floodwaters to wetlands dominated by Giant Rush, such as Boals Deadwoods and Top Island or connecting creeks leading to higher terrain usually containing water-stressed red gums.	Ongoing		Ongoing	Work with water authorities to achieve diversions.	Ongoing	Work with water authorities to achieve diversions	YYNAC (TLM)	Low

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
E24	Help to sustain healthy Country through the use of environmental water flows. Use environmental flows of Walla to sustain ephemeral habitats and support culturally important species such as turtles.		<b>Environmental watering for cultural values (Project 22E10)</b>	Ongoing		Ongoing		YNAC (TLM), GBCVA	Low
E25	Pursue the development of cultural water allocations. Ensure Aboriginal water values and uses are identified and supported, for example through the Aboriginal Waterways Assessment tool enabling Traditional Owners to assess the cultural health of their Country and inform priorities for environmental water delivery.				Develop and implement a strategy to pursue water entitlements that are legally and beneficially owned by Yorta Yorta, of a sufficient quantity and quality to improve spiritual, cultural, environmental, social and economic needs.	Ongoing		YNAC	Moderate
E26	Improve natural flows in drainage lines ('runners') through the removal or modification of constructed barriers, removal of River Red Gum regrowth, and realignment or careful removal of excessive timber debris. Retain fallen trees and woody debris levels required for aquatic habitat.				Identify any drainage lines requiring improve flows via Project 22E23 and determine options and constraints.			YNAC, GBCVA	Low
E27	Monitor and evaluate the effectiveness of environmental water planning (including water deliveries and planned dry periods) in achieving the desired water regime and ecological and cultural outcomes.	Ongoing		Ongoing	Monitor and evaluate effectiveness through annual JMP partners workshop and 5-year outcomes review	Ongoing		PV, YNAC (TLM), GBCVA	Low
E28	Work with water agency partners to reduce and manage the impacts of blue-green algae and blackwater events on the park environment and visitor safety.	Ongoing		Ongoing		Ongoing		PV, YNAC	Low
E29	Develop knowledge and skills in cultural burning and incorporate into fire management in the National Park through partnership between Yorta Yorta and fire management agencies.		<b>Cultural burning and fire partnership (Project 22E29)</b>		Continue to develop and impart knowledge between Yorta Yorta and fire management agencies through burn planning and implementation, debriefings, and research and training forums.	Ongoing	Continue to develop and impart knowledge between Yorta Yorta and fire management agencies through burn planning and implementation, debriefings, and research and training forums.	YNAC, DELWP, PV	Moderate
E30	Work with DELWP to incorporate cultural burning practices into fire management programs and procedures.	Ongoing	Implement via E29.	Ongoing		Ongoing		YNAC, DELWP	Moderate
E31	Ensure timely and regular annual engagement of Yorta Yorta by DELWP and other fire management partners to identify and incorporate cultural burning priorities into fire management plans.	Ongoing		Ongoing	Ensure effective implementation of strategy is considered in 5-year outcomes review.	Ongoing		DELWP, YNAC	Moderate
E32	Develop an operational fire management forum to ensure liaison and co-operation (see IG7).		<b>Fire management working group (Project 22IG7.4)</b>	Ongoing	Maintain forum.	Ongoing	Maintain forum.	DELWP	Low
E33	Develop skills and capability within the Yorta Yorta Woka Walla natural resource management team to implement cultural burning practices and to participate in other fire management operations and opportunities for training and development.		Implement via Cultural burning and fire partnership (Project 22E29)		Implement via E29.	Ongoing	Implement via E29.	YNAC	Moderate
E34	Monitor the effects of climate change on the park and visitors, including extreme events and slow-onset changes.				Monitor via E35 project	Ongoing		YYTOLMB, PV	Moderate
E35	Periodically review and assess the overall condition of the park in relation to the range of threats and impacts driven or exacerbated by climate change and the effectiveness of the park in providing a climate refuge for wildlife.				Commission a review of climate impacts ahead of the 5 yearly outcomes review		Implement review findings	TOLMB	Moderate
E36	Promote research into the present/past structure of forests in the park and develop a long-term vision and objectives for healthy forest as the basis of future management actions.				Initiate a research project to identify desired forest condition, required treatments and preferred techniques. Undertake a pilot of treatments and evaluate results.		Implement actions in response to results of pilot	PV	High

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
<b>Authorised uses</b>									
AU1	Identify all public sector and commercial uses in the park. Establish licences, consents or other legal arrangements to authorise the continuation of appropriate uses through joint management decision processes. Discontinue any inappropriate uses, through negotiated agreement where possible.		See Projects 22AUB and 22AU9	Ongoing	Manage commercial pumps (Red Gum retreat & one other)	Ongoing		PV	
AU2	Develop guidelines through the joint management decision-making process for authorising and managing events in the Dharmya Community Use Area that require use of or access through the National Park, including appropriate types of events and associated activities and services, and standard conditions.				Develop guidelines and conditions	Ongoing	Apply guidelines	YNAC	Low
AU3	Review the system of drains, levees, weirs, regulators and other water infrastructure in the park with Goulburn-Murray Water, in consultation with GBCMA and DELWP, to confirm current needs. Determine ownership, their measurement capabilities, safety compliance, and the functional responsibilities for operation and maintenance. License the required structures under Section 27 of the National Parks Act or other provisions, subject to compliance upgrades. Decommission/rehabilitate redundant structures.		Management of water infrastructure (Project 22AUB)		Implement decommissioning and rehabilitation works as defined in GBCMA Barmah Forest Water Management Assets Review 2018	Ongoing	Maintain licensing/consent regime	PV, YNAC, GBCMA	Moderate
AU4	Continue to permit the use of existing and licensed water pump and pipeline sites and work with Goulburn-Murray Water and other partners on applications for new pumps and pipeline sites.	Ongoing	Liaise with Goulburn-Murray Water on applications	Ongoing		Ongoing		PV	Low
AU5	Install traffic control measures to prevent unauthorised vehicle passage along the levee on the southern boundary of the National Park. Allow the levee to weather away unless benefiting parties seek authority to repair or maintain it under a Levee Maintenance Permit.		Levee management (Project 22AU5)	Ongoing	Collaborate on assessment and issuing of permits to maintain levee	Ongoing		PV	Low
AU6	Ensure that recreational and other events on Dhungalla (Murray River) that make use of the park for camping or other purposes are authorised and properly managed.	Ongoing	Maintain system for recording of trip intentions by school groups and licensed tour operators, with referral of groups to PV by NSW Maritime.	Ongoing		Ongoing		PV	Low
AU7	Update the apiary site plan for the park, in consultation with apiculture groups and other stakeholders, to ensure sites are effectively located, licensed and managed in accordance with policy and regulations. Ensure sites are located away from the Reference Area Zone and take account of research into native bee populations.		Apiary management (Project 22AU7)		Implement any changes arising from the updated plan	Ongoing	Manage apiary sites in accordance with the plan	DELWP, PV	Low
AU8	Provide staff and contractors associated with authorised uses with advice and/or induction about the need to protect the environmental, cultural and recreational values of the park.	Ongoing	Maintain system currently in place, review periodically and implement any required changes.	Ongoing		Ongoing		PV, YNAC	Low
AU9	Review existing tour operator licences and other permits that may be affected by the proposed changes to access or allowable activities (see Table 3, Section 10). Do not renew tour operator licences that conflict with the Joint Management Plan.		Licence and permit management (Project 22AU9)	Ongoing	Implement process including directions for the interpretation of Yorta Yorta culture (see VE27)	Ongoing		PV, YNAC	Low
<b>Yorta Yorta culture and cultural heritage</b>									
YC1	Increase the understanding among joint management partners, researchers and others of the Yorta Yorta way of seeing Country, recognising that nature, culture and people are inseparable.		Implement via CCP3	Ongoing	Maintain advisory group set up by Project 22CCP3. Promote both formal and informal ways of building understanding and sharing knowledge among staff and organisations	Ongoing		YNAC, PV, DELWP	Low

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
Y2C2	Increase Yorta Yorta participation in the management of Country, including cultural burning and watering, and invasive plant and animal control, through the YNAC Woka Walla team and other channels (see E1, E4 and E29).		Implement via E4 and E29		Continue to increase participation as opportunities arise. Ensure strategy is considered in 5-year outcomes review	Ongoing		YTO/IME	High
Y2C3	Increase understanding of the breadth of Yorta Yorta cultural heritage, including tangible artefacts and sites, places, and intangible heritage such as stories, knowledge and practices.				Review park information and regional tourism information and take action to increase understanding of Yorta Yorta cultural heritage where required.			YNAC, PV	Low
Y2C4	Update and expand mapping of cultural heritage in the National Park, especially in areas at risk of disturbance such as popular visitor areas and access routes.		<b>Cultural mapping (Project 22YC4)</b>		Survey and map cultural heritage in any areas not covered by Project 22YC4.			YNAC	High
Y2C5	Protect cultural heritage from the impacts of visitor use and management operations. (See strategies for camping and vehicle access and use in Section 10.)		<b>Cultural site protection (Project 22YC5)</b>	Ongoing	Implement protection of sites and values identified by mapping project	Ongoing	Continue to implement and maintain protection of sites and values identified by mapping project	YNAC, PV	Moderate
Y2C6	Set aside an area on part of Top Island outside the Reference Area Zone, for Yorta Yorta cultural gatherings to enable community and customary practices to be undertaken and for cultural knowledge sharing and instruction. Establish processes for managing and monitoring access and use.		<b>Yorta Yorta cultural gathering place (Project 22YC6)</b>		Improve access to Top Island and establish gathering place in accordance with legal arrangements put in place by Project 22YC6)		Operate gathering place including caring for Country on Top Island	YNAC, PV	High
Y2C7	Pursue legal arrangements, through the Traditional Owner Settlement Act or other processes, to recognise rights to collect and use traditional plant and animal foods and materials in the set aside area and/or other parts of the park.		<b>Resource use arrangements (Project 22YC7)</b>		Implement resource use arrangements established by Project 22YC7	Ongoing	Maintain arrangements	YNAC, DELWP	Low
Y2C8	Develop a cultural interpretation plan for the National Park, including improved information and interpretive materials about Yorta Yorta culture for visitors as well as partners and workers in the National Park, including online and printed information, signs, and training and induction opportunities.		<b>Cultural interpretation plan (Project 22YC8)</b>		Progressively implement actions in the Plan including online and printed information, signs, interpretive services at Dhamya and in the park	Ongoing	Maintain interpretation services. Implement any changes required following 5-yearly outcome evaluation.	YNAC	Moderate
Y2C9	Expand the use of Yorta Yorta names and dual names for places and tracks in the National Park where current names are not historically significant, using the joint management decision-making process and the rules and consultation process under the Geographic Place Names Act.				Undertake review of place names, and propose locations for official renaming approval.		Develop signage and information plan and implement renaming for approved locations.	PV & YNAC	Moderate
<b>Conserving and presenting post-colonial heritage</b>									
SH1	Develop improved visitor information and interpretive materials about post-colonial heritage in the National Park, including web and printed information.				Commission the development of a suite of improved materials based on the outcomes of SH2. Integrate with SH3.	Ongoing	Maintain and renew materials as necessary	PV	Low
SH2	Identify and interpret post-colonial heritage sites in the National Park, including sites relating to the timber industry, charcoal burning, grazing, shearing, river transport and forestry research.				Commission an updated identification and assessment of sites, including engagement of the community and stakeholders in identifying sites and sourcing information.			PV	Moderate
<b>Acknowledging and interpreting shared history</b>									
SH3	Acknowledge and interpret the shared history of the National Park in visitor information and management, including openly recognising conflict and trauma.				Commission the development of a suite of improved materials based on the outcomes of SH2. Integrate with SH1.	Ongoing	Maintain and renew materials as necessary	PV, YNAC	Low
SH4	Pursue listing of Barmah as a National Heritage Landscape through the Commonwealth Government.						Develop case for listing and pursue with the Commonwealth Government	YNAC, DELWP, PV	Moderate
SH5	Using existing roads and tracks, develop a cultural trail through the National Park that recognises and interprets the park's cultural landscape and shared history: the story of Yorta Yorta as First Nation People, the era of settlement and extractive use, and the evolution				Implement cultural trail (see VE5 and VE25)			YNAC, PV	High

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
	of present-day conservation. Seek community input on the features and stories to be recognised and interpreted.								
<b>Community connections and partnerships</b>									
CCP1	Periodically update the local and broader community and partners about progress on implementing the Joint Management Plan (see IG8).	Ongoing	<b>Community JVP updates (Project 22CCP1)</b>	Ongoing	Maintain community updates	Ongoing	Maintain community updates	YTOU/ME	Low
CCP2	Establish decision-making and operational arrangements to ensure that the implementation of the Joint Management Plan is collaborative and widely supported (see 'Governance, Implementation and Monitoring' section).		Implement through Projects IG7.1, 7.2, 7.3 and 7.4)	Ongoing		Ongoing		YTOU/ME	Low
CCP3	Establish cross-cultural knowledge sharing projects for water management and fire management in the National Park which increase water and fire managers' understanding of Yorta Yorta priorities and traditional knowledge, and enable Yorta Yorta to understand and participate in agency policy formulation and decisions.		<b>Cross-cultural knowledge sharing (Project 22CCP3)</b>	Ongoing	Maintain advisory group set up by Project 22CCP3. Promote both formal and informal ways of building understanding and sharing knowledge among staff and organisations.	Ongoing		Y/NAC, PV, DELWP	Low
CCP4	Create training, research and education programs that combine on-ground activities in the park with the facilities and services available in the Dharmya Centre and the Yerbera Training Centre in Barmah township.				Review existing training, research and education activities and develop a plan for improved and expanded program	Ongoing	Implement the plan to deliver improved training, research and education programs	Y/NAC, PV	Moderate
CCP5	Investigate the creation of a knowledge-sharing platform to hold education, research, monitoring and other data and information about Barmah National Park and Yorta Yorta Country for use by all partners and the community, subject to confidentiality and intellectual property provisions.				Scope out the requirements for a knowledge-sharing platform including functionality, technical specifications and intellectual property protocols.		Design and implement knowledge sharing platform	Y/NAC, PV	Moderate
CCP6	Ensure that researchers proposing to work in the National Park engage with Yorta Yorta in the design, approval and conduct of their research, through the joint management process.	Ongoing		Ongoing		Ongoing		PV, DELWP, Y/NAC	Low
CCP7	Create an economic development program with dedicated project management that identifies and develops opportunities for the additional employment of Yorta Yorta people and businesses in:				Develop economic development program for priority activities (7.1, 7.2, 7.4)		Develop economic development program for other activities (7.3, 7.5, 7.6)	Y/NAC, DELWP, PV	High
	CCP7.1 Healthy Country works and operations, including pest plant and animal control and fire management							Y/NAC, DELWP, PV	
	CCP7.2 visitor facility/maintenance							Y/NAC, PV	
	CCP7.3 commercial visitor services such as sales of firewood, ice and camping supplies							Y/NAC, PV	
	CCP7.4 tourism services such as guided tours, craft teaching and merchandise sales							Y/NAC, PV	
	CCP7.5 waste management in and outside the National Park							Y/NAC, PV	
	CCP7.6 development of a local species seedbank for revegetation work in the park and the whole of Yorta Yorta Country.							Y/NAC, DELWP, PV	
CCP8	Implement an immediate increase in the participation of the Y/NAC Woka Walla Team in park operations and works and develop a longer-term plan for building Woka Walla skills and capacity as part of the economic development program.		<b>Increased Woka Walla operations (Project 22CCP8)</b>		Ensure strategy progress is reviewed at 5-year outcomes review			Y/NAC, PV, GBCVA	Moderate
CCP9	Work with the Shire of Moira to improve the management of visitor waste and rubbish including development of a waste dump point for recreational vehicles in the vicinity of the park (see VE11 and VE12).						Implement via VE11 and VE12	PV	Low
CCP10	Work with Murray Regional Tourism to jointly progress the Barmah National Park Tourism Development Plan, with a focus on nature-		See VE26		Implement later phases of the Plan		Implement later phases of the Plan	PV, Y/NAC	Moderate



ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
	based and Indigenous tourism, and the development and promotion of the Murray Valley Adventure Trail (see VE26).								
CCP11	Collaborate with Yorta Yorta Nation Aboriginal Corporation on the management of the interface between the National Park and the inlying Yielima freehold property. Integrate pest plant and animal control programs and other activities across the park and Yielima to improve effectiveness.	Ongoing	Maintain established process for co-ordination	Ongoing		Ongoing		PV, YNAC	Low
CCP12	Investigate the legal mechanisms to enable Yorta Yorta Nation Aboriginal Corporation to control and manage the Dhungalla (Murray River) frontage adjacent to Yielima.						Investigate mechanisms	PV, YNAC, DELWP	Low
CCP13	Establish an agreement with the New South Wales Government to enable enforcement of regulations by Victorian joint management rangers on the Native Dog area of Ulupna Island and other areas on the south side of Dhungalla (Murray River) (see VE36).				Investigate legal mechanisms to enable authorisation of Parks Victoria rangers, under NSW legislation. If feasible, seek authorisation. Engage with Victoria's Cross-border Commissioner (Also implements VE18 and VE36)			PV and DELWP	Low
CCP14	Work with New South Wales Maritime Services to ensure safe and environmentally responsible boating on Dhungalla (see VE23).	Ongoing	Implement via VE23	Ongoing		Ongoing		PV	Low
CCP15	Work with Picnic Point caravan parks and tourism operators in New South Wales to promote the national parks on both sides of Dhungalla, and to educate visitors and operators about Barmah NP.	Ongoing		Ongoing		Ongoing		PV, YNAC	Low
CCP16	Pursue opportunities for closer links with businesses and service providers in Barmah and Picoia to improve the range of services for National Park visitors, especially for events and group visits.						Undertake discussions with Moira Shire and local businesses.	PV	Low
CCP17	Investigate ways to increase volunteering in the National Park using Parks Victoria's knowledge and networks in the recreational, conservation and educational sectors.						Discuss opportunities with key volunteer groups; develop & implement program for increased volunteering.	PV	Moderate
CCP18	Liaise with caravan park and resort owners adjacent to Ulupna Island on visitor information and services and park management issues.				Make formal contact with owners and discuss issues.	Ongoing		PV	Low
<b>Visitor experience</b>									
VE1	Develop a plan for managing and maintaining the park road and vehicle track network to designate the main public access routes to visitor areas, and close unnecessary park entry points and tracks to public use, and integrate the network with adjacent Shire roads. Ensure vehicle access for bushfire and other emergency management is not compromised. Engage closely with stakeholders and management agencies in detailed development of the plan.		<b>Road and track network plan (Project 22VE1)</b>		Progressively implement re-alignments (Project Concept PC03).	Ongoing	Progressively implement re-alignments (Project Concept PC03).	PV, YNAC	Moderate
VE2	Investigate the legal requirements in consultation with the Moira Shire to revoke the present road reservation on sections of the National Park's southern boundary, and revoke if practical.		<b>Southern boundary access management (Project 22VE2)</b>					PV	Low
VE3	Re-align retained public and management-vehicle-only roads and tracks where necessary to reduce impacts on cultural sites and significant native vegetation.		<b>Road and track re-alignments (Project 22VE3)</b>		Progressively implement re-alignments resulting from Projects 22VE1 and 22YC4.		Progressively implement any required re-alignments	PV & YNAC	Moderate
VE4	Improve the maintenance of walking tracks and investigate the scope to raise the height of the main public access roads and tracks at key points where they are impassable during low-level floods, while not impeding water flows.				Maintain and improve walking tracks (PV staff and Woka Walla team). Investigate the safety issues and implications for natural flows before implementing any changes to track levels.	Ongoing		PV & YNAC	Low

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
VE5	Establish a cultural driving route through the park, located primarily in the Biyala Zone, and provide interpretation of cultural, natural and historic features (see VE25).		Implement via VE25		Plan and develop a cultural driving route based consistent with Cultural Interpretation Plan (Project 22YOC8)			YNAC & PV	
VE6	Investigate the need for additional toilets in key visitor locations to reduce environmental impacts and/or improve visitor amenity.				Review toilet requirements at Barmah Lakes as part of fee-based camping proposal (Project 22VE13).		Undertake investigation and plan and develop toilets in other appropriate and sustainable locations if required.	PV	Moderate
VE7	Provide access and opportunities for designated and dispersed camping in accordance with Table 3. Manage Barmah Lakes as a designated camping area and maintain opportunities for dispersed camping in the Dhungalla Zone.				Plan the introduction of bookable, fee-based camping at Barmah Lakes via Project 22VE13. Ensure all campsites at designated camping locations are identified in Park View database. Allow dispersed camping only in the Dhungalla Zone subject to the JVP restrictions on campfires and other activities (see VE14, VE15, VE16 and JVP Table 3).			PV, YNAC	Moderate
VE8	Develop a new designated camping area with appropriate facilities in the Biyala Zone to enable camping when lower parts of the park are in flood (see VE50). Ensure the camping area layout provides separated, quiet camping opportunities, as an alternative for those campers wishing to camp away from the designated camping area at Barmah Lakes and the popular dispersed camping in Dhungalla Zone.				See VE50		See VE50	PV	High
VE9	Designate and manage camping areas at The Cutting and War Creek on The Narrows as overnight canoeing camps.				Designate existing campsites at The Cutting and War Creek on The Narrows as canoe camps and restrict vehicle access as required.			PV	Low
VE10	Define and re-site campsites in the Dhungalla Zone where necessary to control encroachment on cultural sites (based on expanded cultural mapping) and impacts on vegetation. Periodically rest parts of camping areas to allow revegetation. Ensure any significant changes to dispersed camping opportunities are communicated to visitors through information channels.				Progressively define and re-site campsites based on impacts on natural and cultural values. Restrict access to rest areas temporarily to allow revegetation.		Progressively define and re-site campsites based on impacts on natural and cultural values. Restrict access to rest areas temporarily to allow revegetation.	PV, YNAC	Low
VE11	Improve the facilities for campers to deposit rubbish on their exit from the park, in collaboration with Moira Shire, and educate visitors on the need to remove rubbish from the park.				Review effectiveness and operation of existing deposit facility on Moira Lakes Road in collaboration with Moira Shire.		Collaborate with Shire to plan and deliver any required improvements	PV	Moderate
VE12	Establish a dump point for recreational vehicle wastewater, outside but close to the National Park, in collaboration with Moira Shire.				Review and confirm the need for a dump point closer than existing facilities (Nathalia, Strathmerton, Echuca) in collaboration with the Moira Shire. Promote dump points in visitor guides.		Implement any actions arising from the review.	PV	Low
VE13	Introduce a booking system and fees for overnight camping in designated camping areas with facilities, comparable to fees in other Victorian national parks. Investigate arrangements to provide community fee concessions and re-invest fees in the maintenance of visitor facilities and services.		<b>Gulpa Gaka zone visitor planning (Project 22VE13). Ensure accessibility assessment under VE44 is included in the planning.</b>		Make necessary improvements to services and facilities.		Implement booking/fee system	PV, YNAC	High
VE14	Allow the use of camping generators only in designated sections of the Dhungalla Zone and Gulpa Gaka Zone, between sunrise and sunset and within reasonable noise levels that do not cause nuisance. Ensure designated areas and time restrictions are clearly communicated and mapped in visitor information.		<b>Generator management (Project 22VE14)</b>	Ongoing		Ongoing		PV	Low
VE15	Ensure constructed fireplaces are provided in a) all designated camping areas and b) those dispersed camping locations in the Dhungalla Zone where environmental and cultural values are identified as at risk.		<b>Fireplace management (Project 22VE15)</b>	Ongoing	Maintain/renew fireplaces as necessary	Ongoing	Maintain/renew fireplaces as necessary.	PV	Low

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3to6	Likely projects	Priorities Years 7to9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
VE16	Allow campfires all year round within authorised constructed fireplaces where provided, in accordance with regulations. Allow dispersed campfires (ie outside authorised public fireplaces) in Dhungalla Zone in accordance with regulations, except within 50m of any authorised public fireplace provided. Do not allow any dispersed campfires during a declared fire danger period. Establish additional constructed fireplaces in Dhungalla Zone. Educate visitors on need to use constructed fireplaces where provided, and enforce their use.	Ongoing	Campfire regulation (Project 22VE16)	Ongoing	Consider effectiveness of strategy as part of 5-year outcome evaluation. Set aside ongoing Community consultation	Ongoing	Implement any changes required as a result of 5-year review.	PV	Low
VE17	Allow firewood collection within the park, except in areas closed for rehabilitation or protection of environmental or cultural values. Restrict firewood use to campfires in the park and prohibit removal from the park. Encourage visitors to bring clean firewood for their campfire use. Allow the use of chainsaws for cutting firewood for park campfires in areas 10 metres either side of Gulf Track and 10 metres either side of tracks in Biyala Zone, except at Ulupna Island.	Ongoing		Ongoing	Re-inforce arrangements through education and enforcement	Ongoing	Re-inforce arrangements through education and enforcement	PV	Low
VE18	Work with the New South Wales agencies to ensure co-ordinated enforcement of fire regulations, and seek authorisation of Parks Victoria staff to allow enforcement of NSW fire regulations in areas of New South Wales on the south side of Dhungalla (Murray River).				Implement via CCP13			PV	Low
VE19	Increase resourcing and focus on education and enforcement to prevent visitors creating informal boat launching points on the banks of Dhungalla, and the lakes and creeks in the National Park.				Increase the level of Ranger contact with boating visitors. Emphasise the reduction of bank impacts in face-to-face contact and pre-visit information.	Ongoing		PV	Low
VE20	Allow passive boating on Barmah Lake and throughout the park when in flood, ensuring it is conducted safely and does not create disturbances to colonial bird nesting sites.			Ongoing	Ensure pre-visit information and LTO conditions encourage low-impact and safe passive boating	Ongoing		PV	Low
VE21	Pursue a change to vessel operating rules under the Marine Safety Act to prohibit the use of personal watercraft on Barmah Lake.						Pursue proposed change to the vessel operating rules through PV marine policy staff.	PV	Low
VE22	Work with Better Boating Victoria to investigate the establishment of additional boat ramps at appropriate locations between The Gulf and Sand Ridge Track, and at Ulupna Island, and upgrade boat access at Crawford's Road (see VE48 and VE58).		Boat ramp improvements (Project 22VE22)					PV	Moderate
VE23	Work with NSW agencies to manage boating on the Murray River to minimise impacts on Barmah National Park, the lower southern bank, and licensed tour operators (see CCP14).	Ongoing	Liaise with NSW agencies at local level.		Establish the need for any formal arrangements with NSW agencies.	Ongoing		PV	Low
VE24	Liaise with licensed tour operators to communicate changes to horseriding in the park, and other changes in allowable activities and access.		See Project 22AU9	Ongoing	Review as required.	Ongoing	Review as required	PV	Low
VE25	Develop and implement a plan for increasing the presentation and interpretation of Yorta Yorta culture, Country and shared history of the park to visitors and education groups, through information, signage and programs. Integrate with the Barmah Master Plan directions for the Dhanya Centre and other areas, and with operations at Yerbera Training Centre and Yelima (see VE39).		Implement via YOC8 and SH1 & SH-B. See also VE41.		Implement via YOC8 and SH1 & SH-B. See also VE41.	Ongoing		YNAC, PV	Moderate
VE26	Collaborate with Murray Regional Tourism to jointly progress the Barmah National Park Tourism Development Plan, with a focus on nature-based and Indigenous tourism, and on the development and promotion of the Murray Valley Adventure Trail (see CCP10).		Regional tourism improvements and IMAT (Project 22VE26)		Continue implementation			PV and YNAC	Moderate
VE27	Implement protocols for licensed tour operations to ensure that the interpretation of Yorta Yorta cultural heritage is endorsed by Yorta Yorta, or alternatively delivered by Yorta Yorta under a service agreement.				Develop and implement protocols	Ongoing		YNAC with PV	Low

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VE28	Work with visitor information centres in Educa and Nathalia to promote the park to regional visitors including circular touring opportunities.	Ongoing			Explore opportunities to strengthen YYNAC relationship with local government visitor information centres		Develop circular touring ideas and information in collaboration with information centres.	PV, YYNAC	Moderate
VE29	Liaise with tourism and recreational bodies to promote the National Park as a destination for appropriate new or expanded activities. Work with the Moira Shire in relation to proposals for tourist accommodation and facilities on private land to optimise tourism benefits and resolve any potential development impacts.	Ongoing		Ongoing		Ongoing		PV	Low
VE30	Undertake baseline and follow-up surveys of visitors to measure visitor numbers, and satisfaction and the effectiveness of joint management actions relating to visitors.				Implement a visitor satisfaction survey, either as a stand-alone survey or as part of Parks Victoria's statewide program. Combine with vehicle counter data to develop a baseline for visitor numbers and satisfaction.		Maintain vehicle counts and re-run satisfaction survey at least once during this period.	PV, YYNAC	Moderate
VE31	Liaise with VicRoads to improve regional tourism signage on key turn-off points for the National Park on the Murray Valley Highway, and Barmah-Shepparton Road, and with NSW road authorities for the Cobb Highway. Work with mobile map providers to update and correct spatial data on the National Park.	Ongoing	Signage improvements completed. Liaise with mobile mapping providers to correct significant errors as they become known.					PV	Low
VE32	Collaborate with Victoria Police, DELWP Wildlife, Victorian Fisheries Authority, the Game Management Authority, New South Wales Maritime Service, New South Wales Fisheries, Moira Shire and other partners to conduct periodic enforcement operations in the National Park targeting illegal activities and anti-social behavior.			Ongoing	Collaborate to target problem activities and behaviours as identified by normal ranger patrols and community feedback.	Ongoing		PV	Moderate
VE33	Ensure pre-visit information and park entry signage provides clear advice to visitors about restrictions on campfires, generators, chainsaws, dogs, and off-road mountain bike use.		<b>Permitted uses information (Project 22VE33)</b>		Establish set asides and develop and implement signage			PV	Moderate
VE34	Ensure campers and day visitors are informed in pre-visit information and onsite signage about significant risks, including drowning and diving accidents, falling tree limbs, blue-green algal blooms, and mosquito-borne viruses. Implement active risk controls for these risks as necessary.		Implement via Project 22VE33.		Establish set asides and develop and implement signage			PV	Low
VE35	Establish ESTA emergency markers and signage in the park to assist with emergency management.		<b>Emergency markers (Project 22VE35).</b>	Ongoing	Maintain markers.	Ongoing	Maintain markers.	YYNAC	Low
VE36	Implement the strategy under 'Community connections and partnerships' relating to the enforcement of regulations by joint management Rangers on the Native Dog area of Ulupna Island, and other areas of New South Wales on the south side of Dhungalla (Murray River) below the high bank mark (see VE18 and CCP13).				Implement via CCP13.			PV	Low
VE37	Educate visitors and enforce regulations to prevent damage to the environment and cultural heritage caused by digging for Bardi grubs, and the need to observe Victorian fishing regulations in regard to collection of shrimp, yabbies, and other live bait.		Implement via Project 22VE33.	Ongoing		Ongoing		PV	Low
VE38	Define the boundaries of the Dharmya Community Use Area and establish regulations under the provisions of the Parks Victoria Act.		<b>Dharmya boundary and regulations (Project 22VE38).</b>					PV	Low
VE39	Undertake improvements, through the Barmah Master Plan, to establish the Gulpa Gaka Zone as the accessible gateway to the park through a revitalisation of the Dharmya Centre and other visitor services in the VEA including:		<b>Dharmya revitalisation (Project 22VE39).</b>		Implement further stages of the Barmah Master Plan.		Implement remaining stages of the Barmah Master Plan.	YYNAC, PV	High
	• visitor information and orientation (see VE25)							YYNAC, PV	
	• cultural education and interpretation, with links to Yenbena Training Centre in Barmah							YYNAC	

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3to6	Likely projects	Priorities Years 7to9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
	<ul style="list-style-type: none"> <li>gateway point for tours into the park and the start of the Cultural Trail</li> <li>potential commercial services</li> <li>focus for events and festivals.</li> </ul>							YINAC, PV	
								YINAC	
								YINAC	
VE40	Maintain Sand Ridge Track in good condition for general visitor access, including recreational vehicles.	Ongoing		Ongoing		Ongoing		YINAC	Low
VE41	Improve signage and information to inform visitors about Yorta Yorta contemporary connection to Country and interpret historical occupation and traditional culture.		Implement via YOC8 and SH1 & SH3). See also VE25.		Implement via YOC8 and SH1 & SH3). See also VE25.	Ongoing		YINAC, PV	Moderate
VE42	Collaborate on the development and implementation of the Barmah Master Plan to improve interpretation, education and tourism services including facility upgrades. Consider provision for traditional arts and crafts activities, commercial services such as a café, guided tours, commercial hub, and cultural and tourism events. Implement with VE39		Implement via VE39.					YINAC, PV	
VE43	Implement designated fee-based camping at Barmah Lakes Camping Area and allow campfires in constructed fireplaces only. Improve the definition of roads and tracks to prevent visitor vehicles driving off-road. Implement with VE13		Implement via VE13.					PV, YINAC	
VE44	Review the extent to which facilities and services in the Gulpa Gaka VEA provide access for all abilities and implement accessibility improvements where required.		Undertake accessibility assessment as part of Project 22VE13.					PV,	
VE45	Investigate the upgrading of boat access at Rices Bridge, consider provision of a toilet and improvement of parking to cope with boat-trailers during peak fishing periods.						Undertake investigation and if feasible, develop plan and implement improvements.	PV	Moderate
VE46	Manage the impacts of horse camps along Broken Creek on the boundary of the National Park and investigate development of horse yards away from the Creek on Barmah Island.						Assess potential sites on Barmah Island and if feasible, develop horse yards.	PV	Low
VE47	Develop a toilet at The Gulf.				Plan and install toilet, including site assessment.		Plan and install toilet, including site assessment.	PV	Moderate
VE48	Develop up to two additional boat ramps between The Gulf and Sand Ridge Track and educate visitors throughout the Picola VEA to use ramps instead of creating informal launch points.				Identify sites, and plan and develop boat ramps		Identify sites, and plan and develop boat ramps	PV	Moderate
VE49	Define campsites where necessary to control encroachment on cultural sites (based on expanded cultural mapping) and impacts on vegetation. Periodically rest parts of camping areas to allow revegetation.				Implement progressively as cultural mapping is expanded.			PV	Low
VE50	Investigate locations in the Biyala Zone to develop designated car-based camping area(s) with appropriate facilities to enable camping when lower parts of the park are flooded, including a potential canoe trail and bird hide(s).				Identify potential locations and complete site assessment of preferred location.		Subject to feasibility assessment, develop camping area and associated canoe trail and bird hide.	PV	Moderate
VE51	Develop signposted and promoted short walks into the park for campers based in the Dhungalla Zone.						Assess and develop potential routes, using existing tracks as far as possible.	PV	Moderate
VE52	Realign Sand Ridge Track near Hut Lake and Garradha Molva as part of the park-wide road and track plan (see VE1 and VE3).		Implement via VE3						
VE53	Amend the boundary of the Picola VEA overlay on Parks Victoria databases, to exclude the Top Island Reference Area.				Amend VEA boundary to align with JVP management zones.			PV	Low
VE54	Define campsites where necessary to control encroachment on cultural sites and impacts on vegetation. Periodically rest parts of camping areas to allow revegetation.				Implement progressively as cultural mapping is expanded.	Ongoing		PV	Low
VE55	Liaise with caravan park and resort owners on visitor information and services and park management issues.			Ongoing		Ongoing		PV	Low
VE56	Amend the boundary of the Yalca VEA overlay on Parks Victoria databases, to exclude the Top End Reference Area.				Amend VEA boundary to align with JVP management zones.				Low

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
VE57	Develop an additional toilet at Ulupna Island.						Plan and install toilet, including site assessment.		Moderate
VE58	Investigate the provision of an additional boat ramp on Ulupna Island and educate visitors to use ramps instead of creating informal launch points.						Investigate provision of ramp.	PV	Moderate
VE59	Assess the results of cultural mapping and re-align tracks or re-site other facilities where necessary to reduce impacts.				Implement via VE3 and VE10.	Ongoing		PV, YNAC	Low
<b>Governance and implementation of the Joint Management Plan</b>									
IG1	Transition into JMP implementation governance through negotiation between YNAC and the State either through Co-Management Agreement and/or TOLVA arrangements.		Implement governance arrangements established through the JMP Implementation Plan (see Project 22IG4)	Ongoing		Ongoing		YTOUIMB and all partners	High
IG2	Progress and report on the implementation of the JMP through the negotiated governance mechanism.	Ongoing		Ongoing		Ongoing		YTOUIMB	Low
IG3	Enact negotiated measures to enable sole management within the transition plan.						Undertake discussions with DELWP	YNAC, YTOUIMB	Low
IG4	Develop a 5-year implementation schedule for the Joint Management Plan within 12 months of final plan approval, identifying actions and projects to deliver the strategies, timing, and lead and support responsibilities for projects.		<b>Implementation Plan (Project 22IG4)</b>		Update Implementation Plan to reflect 5-year outcomes review			YTOUIMB and all partners	Moderate
IG5	Develop business cases for submission to Government and other funders for implementation of specific projects.				Develop Investment Prospectus and associated business cases		Maintain and update Prospectus	YTOUIMB	Moderate
IG6	Monitor success in meeting JMP objectives and 5-year targets (see Table 4).		Implement monitoring and evaluation process established through the JMP Implementation Plan (see Project 22IG4)		Undertake comprehensive 5-year review of outcomes and effectiveness in achieving JMP objectives	Ongoing		YTOUIMB	Moderate
Establish operational joint management groups through new or existing forums which meet regularly to progress the following aspects of the plan:									
IG7	IG7.1 Co-ordinated management of the park and the Community Use Area (including the Dhamya Centre), and Yielima		<b>Dhamya precinct working group (Project 22IG7.1)</b>	Ongoing	Determine annual plan of actions through working group	Ongoing	Determine annual plan of actions through working group	YNAC	Low
	IG7.2 Management of significant licences, consents and permits for authorised uses		<b>Operations/licences working group (Project 22IG7.2)</b>	Ongoing	Maintain liaison as required	Ongoing	Maintain liaison as required	PV	Low
	IG7.3 Water management operations in the park		<b>Water management working group (Project 22IG7.3)</b>	Ongoing	Maintain liaison as required	Ongoing	Maintain liaison as required	TLM	Low
	IG7.4 Fire management in the park, including the development of cultural burning practices and capabilities.		<b>Fire management working group (Project 22IG7.4)</b>	Ongoing	Maintain liaison as required	Ongoing	Maintain liaison as required	DELWP	Low
IG8	Provide periodic updates to the local and broader community and partners about progress on the plan implementation (see CCP1).	Ongoing		Ongoing		Ongoing		YTOUIMB	Low
<b>Research and improving knowledge</b>									
R1	Provide support and resources to research, map and document: R1.1 Yorta Yorta cultural values, including sites, places, stories, travel routes and practices. Implement with YC3 and YC4.		<b>See Cultural mapping (Project 22YC4)</b>		Survey and map cultural heritage in any areas not covered by Project 22YC4.			YNAC	Moderate
	R1.2 Cultural knowledge and skills in caring for Country.				Gather and document data and learnings from programs including cultural burning, revegetation, species protection and watering.		Gather and document data and learnings from programs including cultural burning, revegetation, species protection and watering.	YNAC, PV	Moderate

ID No.	Strategies	Priorities Years 1&2 (21-22, 22-23)	Projects	Priorities Years 3 to 6	Likely projects	Priorities Years 7 to 9	Likely projects	Lead	Extra resourcing required (High, moderate, low)
R2	Implement the monitoring priorities set out in the Protection of Floodplain Marshes Strategic Action Plan 2020-2023 for maintaining and improving current water regimes, removing feral horses, reducing grazing pressure on marshes by other feral animals, controlling invasive wetland plants, and regenerating Moira Grass.	Ongoing		Ongoing		Ongoing		PV	High
R3	Upgrade the monitoring plan for the Barmah National Park and Ramsar Site Pest Plant and Animal Strategy to incorporate the goals and strategies in this plan and the Protection of Floodplain Marshes Strategic Action Plan. (see E7).				Review practicality of targets in Monitoring Plan and revise as needed			PV, GBCMA	Moderate
R4	Establish or maintain partnerships with research institutions and individual researchers. Ensure all research programs in the park are subject to Yorta Yorta approval through the joint management process, and that Yorta Yorta are fully and actively engaged in the design and implementation of research programs.	Ongoing	<b>Research partnerships (Project 22R4)</b>		Develop a joint program of research between Parks Victoria, GBCMA and YYNAC.	Ongoing		YYNAC	Moderate
R5	Obtain baseline information about visitor use and visitor and community attitudes to the National Park and joint management. Periodically monitor to understand support and need for further action.				Purchase and deploy car counters, & conduct visitor satisfaction monitoring	Ongoing		PV	Moderate
R6	Report annually to the Minister for Energy, Environment and Climate Change on progress in implementing the JVP and provide a summary to the community and stakeholders.	Ongoing		Ongoing		Ongoing		YYTOLIVE	Low
R7	Measure progress and effectiveness in achieving the objectives of the Joint Management Plan using the measures and targets set out in Table 4.	Ongoing		Ongoing		Ongoing		YYTOLIVE	Low