



Emu Bottom Wetlands *Master Plan*

March 2024

Contents

1. Introduction	1
Project Aim	1
Project Objectives	1
2. Historic Context	2
3. Strategic Context	3
4. Existing Conditions	5
5. Consultation Summary	6
Community Engagement - Round 1	6
Traditional Owner Engagement	6
Community Feedback - Round 1	7
Community Engagement - Round 2	8
Community Feedback - Round 2	8
6. Master Plan	9
Dog Off Leash Area	10
7. Implementation	11

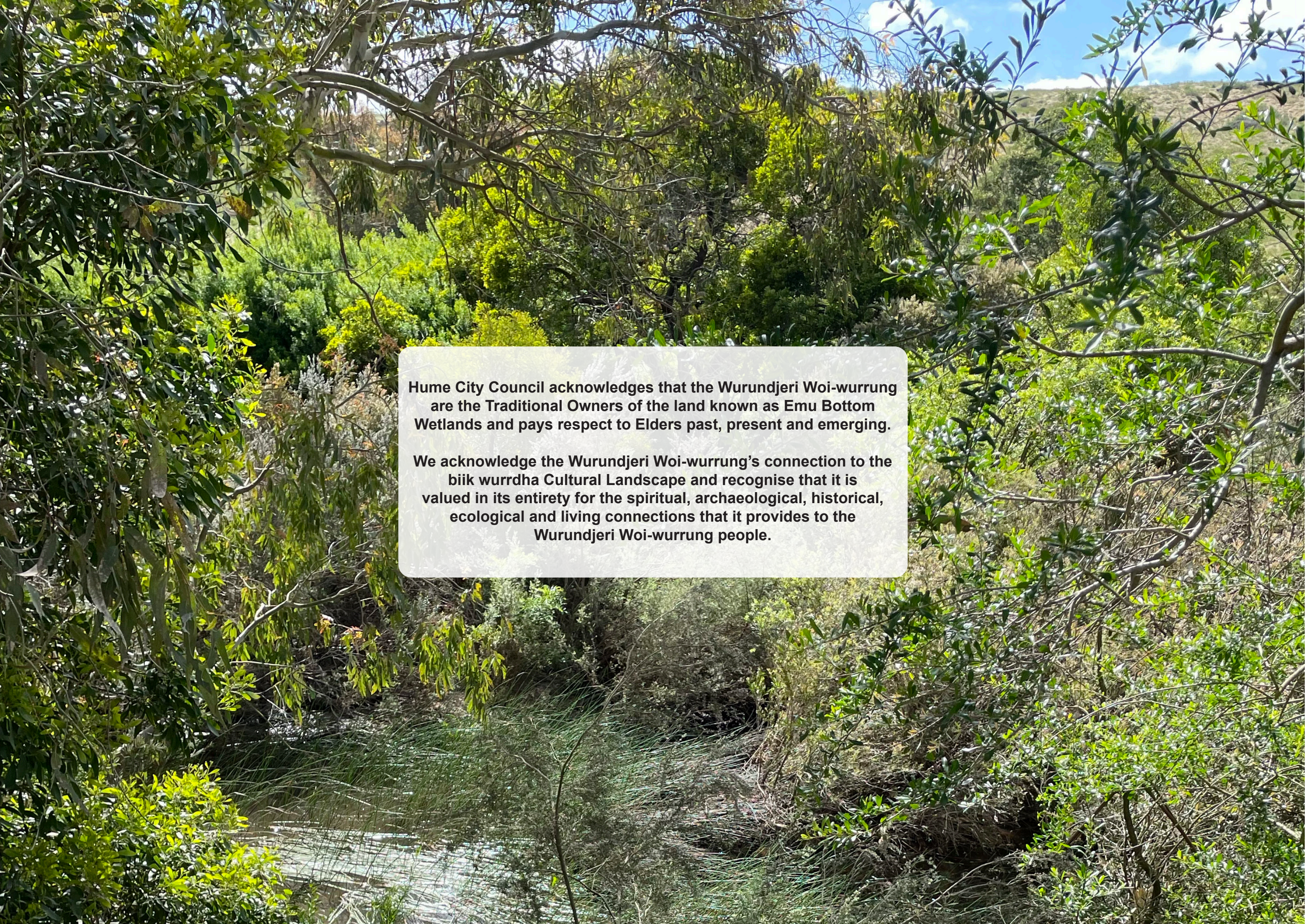


Wurundjeri
Woi-wurrung
Cultural Heritage
Aboriginal Corporation



fitzgerald
frisby
landscape
architecture



A photograph of a lush, green landscape. In the foreground, there is a stream with a metal grate covering it. The stream is surrounded by dense, green vegetation, including tall grasses and various shrubs. The background shows a hillside covered in similar greenery under a blue sky with some clouds. The overall scene is vibrant and natural.

Hume City Council acknowledges that the Wurundjeri Woi-wurrung are the Traditional Owners of the land known as Emu Bottom Wetlands and pays respect to Elders past, present and emerging.

We acknowledge the Wurundjeri Woi-wurrung's connection to the biik wurrdha Cultural Landscape and recognise that it is valued in its entirety for the spiritual, archaeological, historical, ecological and living connections that it provides to the Wurundjeri Woi-wurrung people.



1. Introduction

Nestled in the Jackson's Creek valley of Sunbury, approximately 45km north-west of the Melbourne CBD is the Emu Bottom Wetlands. The reserve is located on Wurundjeri Woi-wurrung Country represented by the Wurundjeri Woi-wurrung Cultural Heritage Aboriginal Corporation. It consists of approximately 32-hectares of open parkland and is bordered by Jacksons Creek to the east, low density housing to the north, and new developments currently under construction to the south. Future housing is also being constructed on the eastern side of the creek as part of the Lancefield Road Precinct Structure Plan.

The Emu Bottom Wetlands is framed by a steep grassy ridgeline to the east, falling towards the revegetated riparian zone of Jacksons Creek. The riparian zone is planted with large shrubs and trees with a small number of remnant trees. To the south of the reserve there is an ephemeral billabong, which is the original meander of the Jacksons Creek, and has a revegetated riparian zone consisting of shrubs and a grassy understory. The balance of the reserve consists of mown exotic grasses, and revegetation areas.

The reserve currently features a small gravel carpark, gravel trails, scattered bench seats and three creekside nodes, known as nature/platypus viewing areas. The site is well loved by local residents and dog walkers, who come to exercise and relax in the unique landscape.

Project Aim

The aim of this project is to produce a Master Plan to guide the future development and use of the Emu Bottom Wetlands for the long term.

Project Objectives

The Master Plan is based on a strategic review of current initiatives as well as existing conditions, facilities and uses of the Emu Bottom Wetlands. The Master Plan aims to respect the cultural heritage and the unique environmental values of the landscape whilst creating a strong foundation for future environmental initiatives and provision of new facilities.

Key considerations include:

- Exploration of opportunities to strengthen and protect the ecological and habitat values in the reserve
- Exploration of opportunities to strengthen connections with existing and future residential areas
- An inventory of initiatives that have been undertaken since the Emu Bottom Wetlands Master Plan (Hume City Council, 1997)
- Creation of walking loops for recreation and appreciation of nature
- Retention a dog off leash area in the reserve and better manage dogs around sensitive habitat areas
- Provision of an expanded carparking area
- Improvement and update of existing seating
- Protect and strengthen Growling Grass Frog conservation areas on site in accordance with *Melbourne Strategic Assessment, Growling Grass Frog Master Plan for Melbourne's Growth Corridors 2017*
- The vision, principles and actions set out in the *Jacksons Creek biik wurdha Regional Parklands Plan (DELWP 2022)*

2. Historic Context

The Wurrundjeri Woi-wurrung people are the Traditional Owners and custodians of the Emu Bottom Wetlands Reserve. The Reserve is part of the biik wurrdha Cultural Landscape determined by the Wurundjeri Woi-wurrung to be significant and home to a number of valued sites and cultural connections. The landscape has been shaped by Wurrundjeri Woi-wurrung who, for thousands of years sustainably occupied and managed the land and it's resources to ensure seasonal harvest and regeneration of plants and animals that were required for diet, clothing, tools, dwellings and other resources¹.

A number of historic buildings are still located along the Jacksons Creek corridor. The Emu Bottom Homestead built in 1936 by George Evans is one of the oldest homesteads in Victoria². The land to the south of the reserve

forms part of the Rupertswood Estate which is home to Salesian College and also has a association with the history of cricket as the birthplace of The Ashes. Since it's was establishment in 1927, Salesian College has run an agricultural program within the parklands.

Over the last 30 years, large areas of revegetation has been carried out by Hume City Council and the Friends of Emu Bottom Wetland Reserve. The following photos highlight the changes in conservation values in the reserve.



Jacksons Creek 1990s



Nature viewing area 2001



View of the billabong mid 1990s



Embankment revegetation 2001



Nature viewing area 2001



Bank revegetation 2001



View to the south 2008

1. Wurundjeri Woi-wurrung Cultural Heritage Aboriginal Corporation, Jacksons Creek Regional Parklands Woiwurrung Cultural Values Study, 2021
2. Victorian Heritage Register Number H0274, 2023

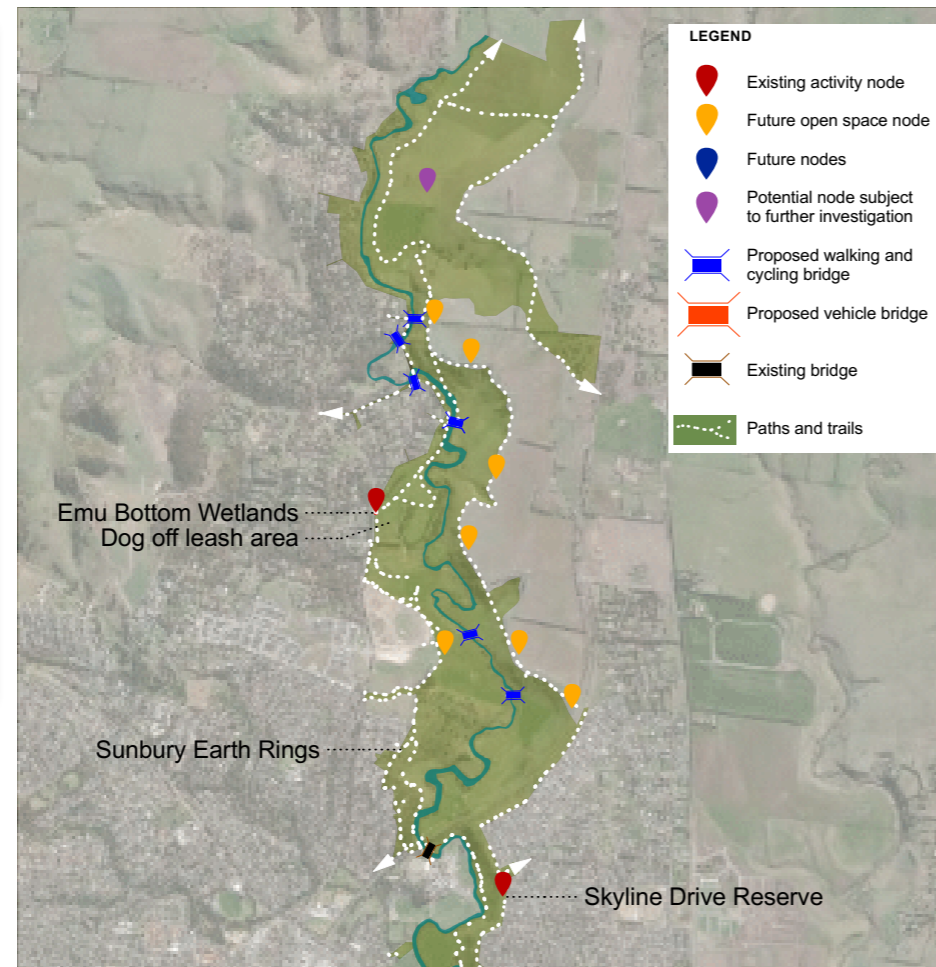
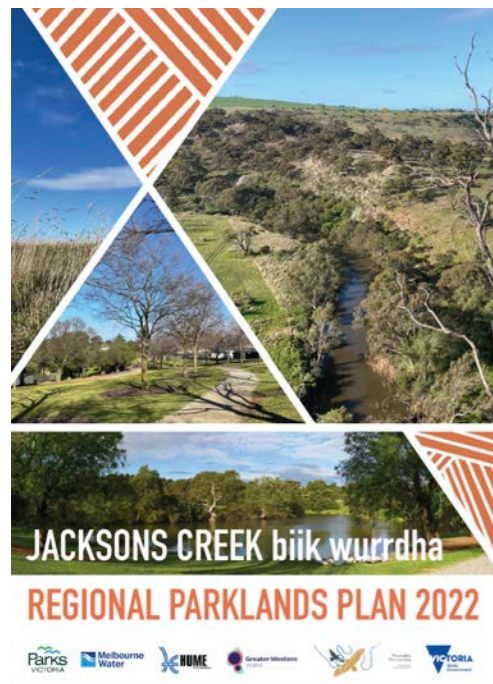


Figure 3.1: Jacksons Creek biik wurrdha Regional Parklands Plan (Jacksons Creek biik wurrdha Parklands Partnership Group, 2022)

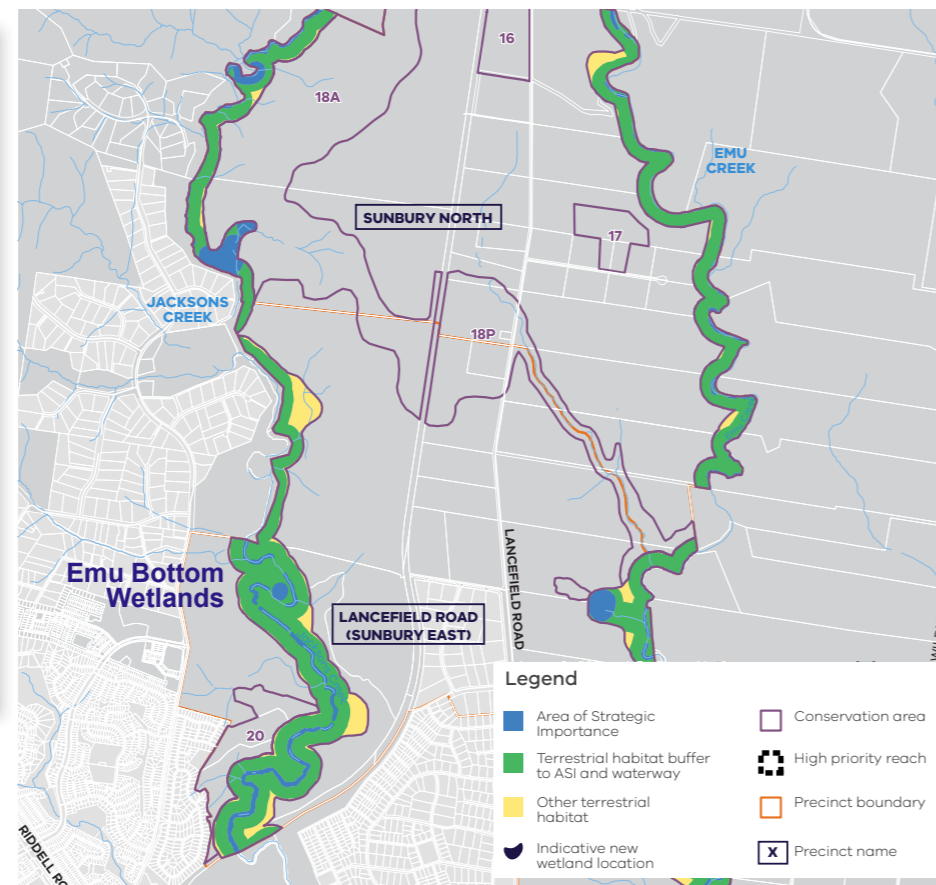


Figure 3.2: Areas of Strategic Importance in Conversation Area 21, Growling Grass Frog Master Plan for Melbourne's Growth Corridors, Melbourne Strategic Assessment, (2017)

3. Strategic Context

The following are key strategic documents which have informed the preparation of the Master Plan:

Jacksons Creek Regional Parklands Woiwurrung Cultural Values Study (Wurundjeri Woi-wurrung Cultural Heritage Aboriginal Corporation 2021)

The Cultural Values Study was prepared for the Jacksons Creek biik wurrdha Regional Parklands Plan. The study found that the Parklands, including the Emu Bottom Wetlands, is a cultural landscape that holds spiritual, archaeological, historical, and ecological significance to the Wurundjeri Woiwurrung people. In relation to the Emu Bottom Wetlands, the study refers to the following:

- Prioritising the protection of the biik wurrdha cultural landscape, and welcoming opportunities for visitors to learn about Wurundjeri Woi-wurrung culture, history and landscape
- The discovery of a stone axe within the reserve
- The reserve is a part of the Sunbury Rings Cultural Landscape with strong evidence of Aboriginal settlement and land-use
- The Sunbury Rings Cultural Landscape is significant for its landscape character and requires preservation from encroachment of development

Jacksons Creek biik wurrdha Regional Parklands Plan (Jacksons Creek biik wurrdha Parklands Partnership Group, 2022)

The Jacksons Creek biik wurrdha Regional Parklands Plan sets out a vision, principles and actions for the Parklands establishment and management. The following are recommendations relevant to the study area:

- The biik wurrdha cultural landscape is valued in its entirety for the spiritual, archaeological, ecological and living connections it provides to the Wurundjeri Woi-wurrung community
- Protect existing biodiversity values including Growling Grass Frog habitat, a nationally vulnerable species
- Provide a walking and cycling network including a bridge across Jacksons Creek biik wurrdha to the north of the reserve
- Create walking loops for recreation and appreciation of nature
- Provide seating every 400m along the primary trail network
- Retain dog off leash area in the reserve and better manage dogs around sensitive habitat areas

Growling Grass Frog Master Plan for Melbourne's Growth Corridors (DELWP, 2017)

The Growling Grass Frog Master Plan for Melbourne's Growth Corridors designates Growling Grass Frog conservation areas and provides guidance on implementing protection measures and investing in habitat creation and enhancement within these areas. The purpose of this plan is to:

- Identify areas of significance along Jacksons Creek and including areas to the east and south of Emu Bottom Wetlands.
- Outline proposed protection, management and creation of Growling Grass Frog habitat, a nationally vulnerable species, within conservation areas

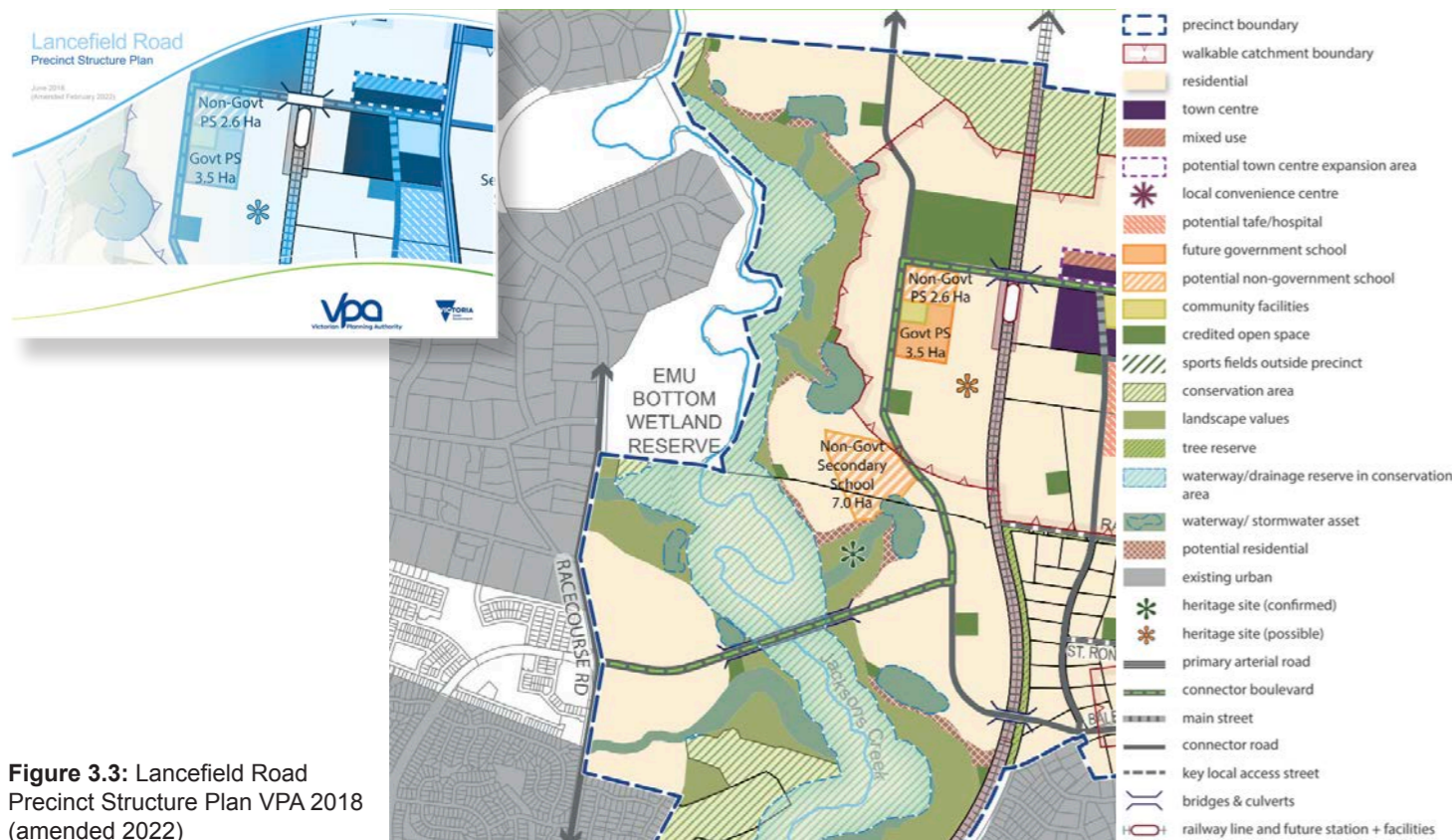


Figure 3.3: Lancefield Road Precinct Structure Plan VPA 2018 (amended 2022)

Lancefield Road Precinct Structure Plan (VPA 2018, amended 2022)

The Lancefield Road Precinct Structure Plan guides future development to the north of Sunbury including the areas to the east and south of the Emu Bottom Wetlands. Key considerations include:

- The Lancefield Road Precinct Structure Plan proposes future shared path alignments and connections across the creek.
- Protection of habitat within conservation areas including Growling Grass Frog habitat

During the preparation of this report, the **Sunbury North Precinct Structure Plan** was still in development. Once completed, it may also be used to inform future development of the Emu Bottom wetland.

Emu Bottom Wetlands Master Plan (MSLAUD, 1997)

The previous Master Plan outlined a vision for the reserve which included:

- Areas for revegetation and conservation
- Open areas of mown grass to retain views and the existing rural landscape character.
- Informal path networks which over time have been formalised as a result of increased use.

The Master Plan also identified the opportunity to expand the reserve further to the south with a buffer zone created between conservation areas and future residential development.

Hume City Council Open Space Strategy 2010-2015 (HCC, 2010)

The Hume City Council Open Space Strategy 2010-2015 provides a framework for the future planning and provision of open space across the municipality. The following are recommendations included for Emu Bottom Wetlands:

- Identifies the Emu Bottom Wetlands as a 'natural area'
- States that 'natural areas' provide primarily for the conservation and restoration of flora and fauna and sometimes also for the protection of cultural and/or heritage values.
- Protect landscape values and provide informal passive recreation where they do not compromise the primary conservation objectives

Hume City Council: Fauna Survey Program 2015-2016 (Biosis, 2016)

Hume City Council engaged Biosis Pty Ltd to conduct a fauna survey across a number of Council-managed reserves including the Emu Bottom Wetlands. Site investigations revealed the following information:

- Detected koala, platypus, Yellow-bellied Sheath-tail Bat, Wedge-tailed Eagle, Peregrine Falcon, Little Lorikeet and Spiny-cheeked Honeyeater at the Emu Bottom Wetlands.
- Recommends the installation of nest boxes at the Emu Bottom Wetlands to target smaller species such as microbats, gliding possums and Brush-tailed Phascogales



Figure 3.4: Emu Bottom Wetland Reserve Master Plan (MSLAUD, 1997)

4. Existing Conditions

The following photographs provide an overview of current site conditions.



Existing carpark on Racecourse Road



Existing trail and shelter



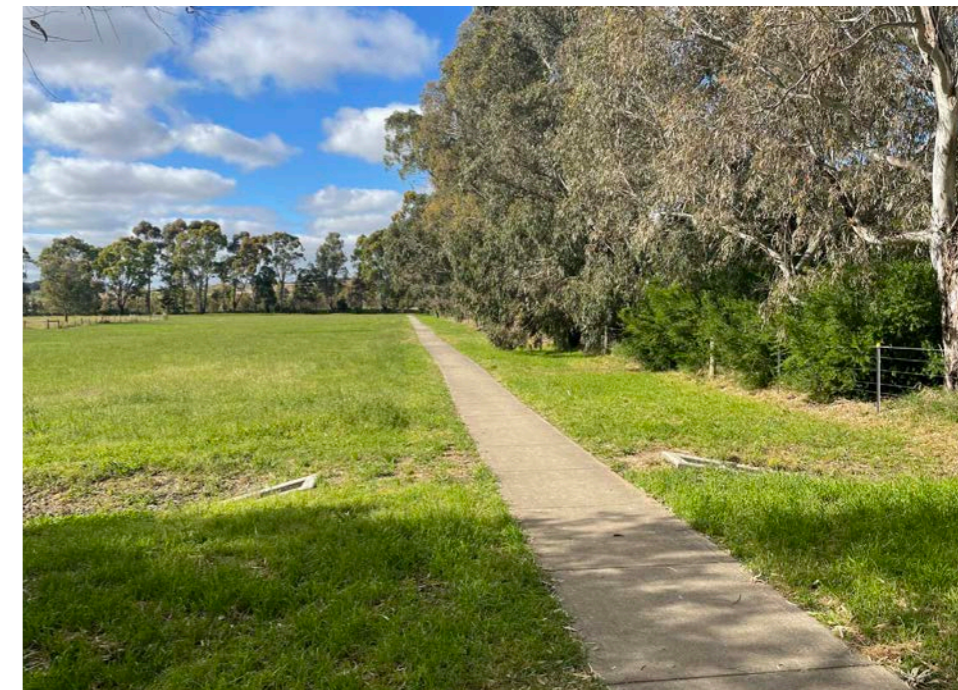
View across the billabong with revegetation around the margins



View from the north-west showing established revegetation



Existing nature viewing area



Pedestrian path along Racecourse Road connecting to Sherwood Grange

5. Consultation

Community Engagement - Round 1

The first phase of community engagement for the Emu Bottom Wetland Master Plan was completed in May 2023 and included the following activities:

- A project page was published on Participate Hume and open for feedback from 28 April to 28 May 2023. The page attracted 990 visits with 124 visitors accessing information on the page.
- A project flyer was mailed to approximately 250 households near the reserve.
- Project signs were posted at the two main entries to the reserve
- An on-site engagement session was held on 6 May
- Emails were sent to people who had registered for updates via the Jacksons Creek biik wurrdha Regional Parklands engagement.

The plans below were prepared to assist community engage for the first phase of consultation.

Traditional Owner Engagement

As Jacksons Creek biik wurrdha Parkland Partners, the Traditional Owners represented by the Wurundjeri Woi-wurrung Cultural Heritage Aboriginal Corporation have provided guidance on embedding cultural value principles into parkland planning and management.

Advice from the Cultural Heritage Unit on 18 May 2023 advised the following in regard to the Emu Bottom Master Plan:

- The Wurundjeri Woi-wurrung Cultural Heritage Aboriginal Corporation appreciate the protection of the cultural and ecological values present within the Reserve.
- Given the cultural significance of the area, it is preferable that any proposed works are undertaken sensitively to ensure minimal ground disturbance.
- The billabong is the original meander of Jacksons Creek, and its cultural value to the Wurundjeri Woi-wurrung people is significant.
- Interpretive signage referencing Woi-wurrung culture would be a welcome addition to the Reserve.




Emu Bottom Wetland Reserve

Background

A new Master Plan for the future of the Emu Bottom Wetland Reserve is underway! We are seeking your ideas and feedback to guide the future development of the reserve.

The Emu Bottom Wetland Reserve is located approximately 45km north-west of the Melbourne CBD. The Reserve consists of approximately 42 hectares of open parkland, with Jacksons Creek biik wurrdha running along the eastern boundary new housing being constructed to the south. The Reserve is well loved by local residents and dog walkers, who come in large numbers to exercise and enjoy the unique landscape.

The reserve currently features a small gravel carpark, gravel trails, scattered bench seats and three formalised creekside nodes, which are intended as platypus viewing areas. The Emu Bottom Wetland Reserve is home to a variety of environmentally significant species of birds and mammals. Platypus and koalas have been recorded on-site as well as peregrine falcons, little lorikeets, spiny-cheeked honeyeaters and the yellow-bellied sheath-tail bat.

Strategic context

The following are key strategic documents which will inform the preparation of the Master Plan.

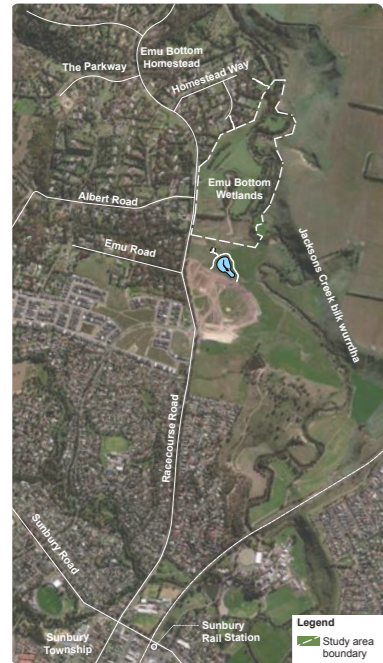

Emu Bottom Wetland Reserve Masterplan (MSLAUD 1997)
Since the plan was adopted the Friends of Emu Bottom Wetland Reserve, Council and Melbourne Water have significantly improved the qualities of the Reserve. Upgrades include weed control, revegetation and improvements to visitor facilities such as viewing areas, seats and trails. The adjoining photos highlight the changes that have taken place.

Jacksons Creek biik wurrdha Regional Parklands Plan (DELWP 2022)
The Jacksons Creek biik wurrdha Regional Parklands Plan sets out a vision, principles and actions for the Parklands establishment and management.

- Retain dog off-leash area in the reserve and better manage dogs around sensitive habitat areas
- Create walking loops for recreation and appreciation of nature
- Protect existing biodiversity values including Growing Grass Frog habitat, a nationally vulnerable species
- Propose a walking and cycling network, including a bridge across Jacksons Creek biik wurrdha to the north of the reserve
- Propose seating every 400m along the primary trail network

Lancefield Road Precinct Structure Plan (VPA 2022)
The Lancefield Road Precinct Structure Plan guides future development to the north of Sunbury including the areas to the east and south of the Emu Bottom Wetland Reserve.

- The Lancefield Road Precinct Structure Plan proposes future shared path alignments and connections to across the creek.
- Protection of habitat within conservation areas including Growing Grass Frog habitat

Emu Bottom Wetland Reserve

Opportunities Plan



Emu Bottom Wetland 1994 and **Current** views.

North of the horseshoe bend 2001 and **Current** views.

Jacksons Creek biik wurrdha 1990s and **Current** views.

Approximate location of creek crossing (final location to be confirmed following detailed site studies)

Existing platypus viewing area

Indicative extent of dog off-leash area, subject to future investigation

Upgrade existing path alignment around the car park extension

Planned extension to the existing car park as recommended in the Parkland Plan

Additional revegetation and modifications to the existing billabong edges to improve safety and bank stabilisation.

Future trail connections to the south as part of the broader Parklands

Legend

- Study area boundary
- Potential new trails
- Indicative extent of dog off-leash area, subject to future investigation
- Potential location for revegetation
- Potential location for new tree planting





Community Feedback - Round 1

The following table outlines feedback received from community consultation and its implications for the Master Plan.

Community engagement feedback	Implications for the Master Plan
35 submissions were received noting the proposed reduction in dog off leash area to 2.5 hectares is too small. Feedback was also provided on areas which would be suitable for dog off leash activities	The proposed dog off leash area has been further reviewed and is likely to be increased from the initial size of 2.5 hectares to approximately 6 hectares in the Master Plan.
Expanding the existing carpark was supported including provision of disabled parking bays and revegetation around the carpark to screen views of the cars	Carpark design options being investigated by Council
The current dog off leash area is over 100m from the carpark. The community noted improved connections to the carpark would be an improvement especially for visitors with limited mobility	The dog off leash area will be linked to the carpark. A new shelter with rest areas beneath is proposed near the entrance to dog off leash area
The community does not want the dog off leash area fenced but supports fencing to protect vegetation works and the creek environs	Fencing of the dog off leash areas is not proposed. Fencing to protect vegetation and the creek environs to be installed if required
Community support for upgraded infrastructure such as shelters, picnic facilities/rest areas, seats and signage. Mixed support was noted for public toilets and drinking fountains	Additional park infrastructure is proposed. Playgrounds, public toilets and drinking fountains are not proposed
Community support to upgrade existing nature/platypus viewing areas	Existing viewing areas are proposed to be upgraded. This may include existing sites being removed and new sites being added in areas of low cultural and environmental sensitivity
Community support for additional scattered tree plantings to provide shade and shelter in open grass areas	Additional scattered tree plantings are proposed
Community support to protect and enhance ecological values within the reserve	Proposed areas for additional revegetation are included in the Master Plan
Community support for additional paths to help define dog off leash areas as well as providing improved access	Paths proposed to be constructed around the edge of dog off leash areas along with scattered tree plantings to provide shade and shelter
Concern raised regarding the fire impacts of additional revegetation	Mown grass buffers to surrounding properties are to be maintained. Fire management practices to be undertaken across the reserve
Installation of a bridge across the billabong was included in the 1997 Master Plan but has not proceeded	The proposed bridge has been excluded from the Master Plan due to cultural sensitives, environmental sensitivities and construction costs. Future pedestrian bridge connections will be constructed as development occurs east of the creek

Community Engagement - Round 2

Following the initial community and stakeholder consultation, a draft Master Plan was developed. After which, a second round of consultation was conducted to understand the community's sentiment regarding the draft Master Plan. Consultation activities included:

- A mail drop of a project flyer to approximately 250 households near the Emu Bottom Wetlands.
- Project signs posted at the two main entries to the reserve
- A Facebook post, which attracted 21 likes and 9 comments
- A project page published on Participate Hume which was open for feedback from the 15th November to 17 December 2023. The page attracted 858 visits from 716 visitors as well as 19 contributions from 13 contributors.

Community Feedback - Round 2

The feedback received from the community centred around a number of key areas including park facilities, the dog off leash area, paths and trails, ecology and conservation, and history and heritage. The following table outlines the key points raised by members of the community.

Community engagement feedback	Implications for the Master Plan
Park facilities	
The proposed picnic settings/rest areas were supported	Rest areas will remain in the Master Plan
Support for the expanded carpark was received however it was also noted that the location and shape of the carpark intrudes on the reserve and is likely too small	Carpark design options have been considered, and the proposed alignment is the least intrusive when accounting for the supporting drainage, ground disturbance and tree removal works required. Entry to the carpark and signage will be included in detailed design.
A positive response for the proposed vegetation alongside paths was received	Vegetation will remain in the Master Plan
One respondent noted that the plan is missing a community event space	The reserve, and the greater Parklands, will be a flexible space that may be used for low impact community events if required
Some respondents would like to see the Friends notice board and the Martin Ryan Memorial structure considered in the Master Plan	A signage suite, which may include a notice board, will be developed as part of future stages
One respondent noted that new behavioural signage is required	A signage suite, including behavioural signage, will be developed as part of future stages. Council will undertake education and enforcement activities to ensure dog owners are aware of their responsibilities.
One respondent noted that more bins are required across the site	Location of furniture, including bins, will be investigated as part of future stages
Dog off leash area	
A number of respondents raised concern regarding the size of the dog off leash area. Some respondents suggested the area was too large whilst others were concerned the proposed area was too small	Council is comfortable that the proposed dog off leash area provides a balance between the requirements for dog walkers and ecological sensitivities
Some respondents noted that they would like a fenced or planted boundary to the dog off leash area to keep dogs and people separate as well as keeping the dogs away from the ecologically sensitive areas	Fencing to protect ecologically sensitive areas to be installed where required

Community engagement feedback	Implications for the Master Plan
Concern around the dog off leash area being too close to the creek and the carpark was also raised	Council is comfortable that the location of the proposed dog off leash area provides a balance between the requirements of dog walkers and park users. Fencing to protect ecologically sensitive areas to be installed where required
A number of respondents noted that the dog off leash rules are not always followed and should be enforced	A signage suite, including behavioural signage, will be developed as part of future stages. Enforcement of the rules is a management issue to be considered
One respondent suggested that an area for dogs to access the creek should be provided	The creek is vital habitat for platypus and as such, access for dogs will continue to be restricted
Paths and trails	
A number of respondents noted that they would like to see a bridge constructed over the billabong to improve walking loops	A bridge over the billabong has not been included in the Master Plan due to cultural and environmental sensitivities, and construction costs
One respondent requested that a continuous loop path around the billabong be provided	Paths and bridge crossings are proposed as part of the wider Parkland works and will provide loop paths
Concern that the proposed paths will negatively impact the ecological values of the site	Council are comfortable that the proposed paths provide a balance between the requirements for park users and ecological concerns
One respondent expressed concern around the double up of paths proposed to the south and suggested existing paths be upgraded instead	The Master Plan proposes a primary trail through the site, as well as secondary paths to facilitate exploration of the area.
Ecology and conservation	
Respondents showed support for the proposed revegetation works however some noted that they would like to see even more	Council are comfortable that the proposed revegetation provides a balance between fire management and ecological requirements
A number of respondents noted that they felt the conservation values were being ignored in favour of providing a dog off leash area	Council is comfortable that the proposed dog off leash area provides a balance between the requirements for dog walkers and ecological concerns
Protecting the growling grass frog and the platypus was raised as a key issue by multiple respondents	Council is comfortable that the Master Plan adequately addresses the protection of fauna.
One respondent raised concern that the platypus may no longer inhabit the area and therefore nature viewing areas are not required	In a 2023 survey of Jacksons Creek, 2 platypus were found in the vicinity of Emu Bottom Wetlands. The proposed nature viewing areas provide an opportunity for park users to engage with the creek in a way that is sensitive to the creek environs.
Numerous respondents suggested ecologically sensitive areas should be protected with fencing or dense planting	Fencing to protect ecologically sensitive areas to be installed where required
Cultural heritage and site history	
Support for the inclusion of cultural heritage and the preservation of significant sites was received	Inclusion of cultural heritage and preservation of significant sites will remain in the Master Plan
One respondent noted that they would like to see the military history of the site recognised with a multipurpose event space that could be used by the community.	A signage suite, including interpretive signage, will be developed as part of future stages. The reserve, and the greater Parklands, will be a flexible space that may be used for low impact community events if required

6. Master Plan

The Master Plan aims to enhance and protect the significant cultural and ecological values of the Emu Bottom Wetlands. The Master Plan will also provide linkages to connect the reserve to the broader parklands, as demonstrated in the adjacent plan.

- 1 Extend the existing carpark including new and upgraded paths around the carpark to provide all abilities access.
- 2 Upgrade existing path to provide a connection to Sherwood Grange and the broader parklands.
- 3 Maintain fire management practices across the reserve including retaining mown grass buffers to surrounding properties.
- 4 Provide additional revegetation across the site to further enhance ecological values and protect cultural values.
- 5 Develop a suite of interpretive signage in key locations, signage to be dual language with both English/Woi-wurrung text including interpretive signage for the early settler history of Emu Bottom Wetlands.
- 6 Provide trees along trails and key activity areas to provide shade and shelter
- 7 Upgrade existing nature viewing areas. Subject to detailed archaeological, flora & fauna, and safety investigations, it may be necessary to relocate one or more of the nature viewing areas.
- 8 Upgrade existing walking trails.
- 9 Replace existing shelter with a larger shelter and rest area. Maintain the Friends of Emu Bottom Wetlands memorial.
- 10 Construct new walking trails throughout the reserve with seating approximately every 400m.
- 11 Construct new shelter with rest areas beneath and an accessible connection to the carpark
- 12 Construct a shared trail bridge across Jacksons Creek (final location to be confirmed following detailed site studies).
- 13 Include fencing as required to protect revegetated areas.





Dog Off Leash Area

The adjacent plan shows the approximate extent of the proposed six hectare dog off leash area which will be demarcated with signage and planting to the perimeter as well as paths in some areas.

The dog off-leash area is designed to keep the dogs away from the Creek, the billabong, and the revegetation areas. It is not proposed to be fenced, however it is recommended that protective fencing will be installed to revegetated areas to protect planting works where required.

The size of the off-leash dog area will evolve over time, adapting to the implementation of different paths, infrastructure, and planting outlined in the Master Plan. Additionally the extent of the area may be subject to change based on site conditions and any cultural or ecological sensitivities that arise during the implementation process.



Signage at entry to dog off leash area

8. Implementation

The following table outlines the priorities along with their estimated implementation costs. Proposed implementation priorities are intended as a reference and are subject to budget considerations.

Item	Action	Priority High = 1-5 years Medium= 5-10 years Low = 10 years+	Indicative cost
1	Extend the existing carpark including new and upgraded paths around the carpark	High	\$300,000 - \$400,000
2	Upgrade existing path to provide a connection to Sherwood Grange and the broader parklands	High	\$100,000 - \$150,000
3	Maintain fire management practices across the reserve including retaining mown grass buffers to surrounding properties	Ongoing	-
4	Provide additional revegetation across the site to further enhance ecological values	High	\$40,000 - \$50,000
5	Investigate opportunities for interpretive signage in key locations, signage to be dual language with both English/Woi wurrung text including interpretive signage for the early settler history of Emu Bottom Wetlands.	High	\$40,000-\$50,000
6	Provide trees along trails and key activity areas to provide shade and shelter	High	\$50,000 - \$100,000
7	Upgrade existing nature viewing areas. Subject to detailed archaeological, flora & fauna, and safety investigations, it may be necessary to relocate one or more of the nature viewing areas.	High	\$300,000 - \$400,000
8	Upgrade existing walking trails	High	\$150,000 - \$200,000
9	Replace existing shelter with a larger shelter and rest areas beneath	Medium	\$100,000 - \$150,000
10	Construct new walking trails throughout the reserve with rest areas approximately every 500m	Medium	\$750,000 - \$850,000
11	Construct new shelter with rest areas beneath and an accessible connection to the carpark	Medium	\$100,000 - \$150,000
12	Construct a new bridge crossing over Jacksons Creek (final location to be confirmed following detailed site studies)	Medium	Scope and location to be further investigated
13	Include fencing as required to protect revegetated areas.	Ongoing	-