

# Brears Road, Yarrawonga

Native Vegetation Assessment

**Prepared for Urbis** 

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# 1. Executive summary

Nature Advisory Pty Ltd undertook a native vegetation assessment of an approximately 12-hectare area of land along the eastern side of Brears Road in Yarrawonga. Residential development is proposed for the majority of the study area, excluding a portion of land in the north to be maintained as open space.

The study area, including adjacent roadside land, comprised ten patches of native vegetation comprising Riverine Swamp Forest (EVC 814) and Plains Woodland (EVC 803). This totalled an area of 3.239 hectares of native vegetation in patches and included 21 large trees in patches. Scattered trees recorded in the study area would once have comprised the canopy component of Riverine Swamp Forest (EVC 814) and Plains Woodland (EVC 803). Fifty-two scattered trees occurred in the study area (Figure 1), including the following:

- 10 large scattered trees (≥ 60-centimetre DBH for EVC 803 or ≥ 90-centimetre DBH for EVC 814); and
- 42 small scattered trees (< 60-centimetre DBH for EVC 803 or < 90-centimetre DBH for EVC 814).</li>

No listed flora species or ecological communities were recorded in the study area during the initial field survey. Due to the moderate quality of native vegetation along the northern boundary of the study area, there is potential for threatened flora species to occur here. Threatened flora species are considered unlikely to be impacted by this proposal as this area (Habitat Zone C) is to be retained, with the exception of large trees (291, 310 and 312) being deemed lost due to TPZ encroachment from the construction of the wetland. Threatened species were considered unlikely to occur elsewhere within the study area due to the historical and current disturbance of the majority of the study area, the prevalence of high threat weeds as well as the low flora diversity in patches of vegetation.

Development in the study area will result in impacts to native vegetation throughout the study area, excluding where native vegetation is being retained in the north, along Brears Road and the retention of high value trees within the development area. The following impacts to native vegetation will result from the current layout:

The proponent proposes to remove 3.504 hectares of native vegetation requiring a permit under Clause 52.17, comprising:

- 2.476 hectares of native vegetation in patches (including 3 large trees in patches); and
- 41 scattered trees (namely 3 large scattered trees and 38 small scattered trees).

The application site lies within Location 2. Based on the extent of native vegetation and the number of large trees being impacted, as well as the location category, the proposal must be assessed under the **Detailed** assessment pathway. This **would** trigger a referral to the Department of Energy, Environment and Climate Action (DEECA).

A Native Vegetation Removal (NVR) report for this proposal is provided in Appendix 5.

Offsets required to compensate for the proposed removal of native vegetation from the study area are:

- 1.137 general habitat units, with following offset attribute requirements:
  - A minimum strategic biodiversity value (SBV) of 0.581
  - Located within the Goulburn Broken CMA boundary or the Moira Shire Council municipal district.
  - Include protection of at least 6 large trees.



Under the Guidelines all offsets must be secured prior to the removal of native vegetation. The offset target for the current proposal will be achieved via a third-party offset. An online search of the Native Vegetation Credit Register (NVCR) has shown that the required offset is currently available for purchase from a native vegetation credit owner (DEECA 2023c). Evidence that the required offset is available is provided in Appendix 6. The required offset would be secured following approval of the application to remove native vegetation.

Implications under the EPBC and FFG Act have not been comprehensively addressed in this report as it was beyond the scope of this investigation. A Protected Flora Permit is not required for the current project as no FFG Act-listed protected species were recorded on public land.

The tables below summarise the compliance of the information in this report with the application requirements of the *Guidelines for the removal, destruction or lopping of native vegetation* (DELWP 2017).

	Application requirement	Response
1.	Information about the native vegetation to be removed.	See Section 5.2 and Section 7.1.2.
2.	Topographic and land information relating to the native vegetation to be removed.	See Section 5.1.
3.	Recent, dated photographs of the native vegetation to be removed.	See Section Appendix 4.
4.	Details of any other native vegetation approved to be removed, or that was removed without the required approvals, on the same property or contiguous land in the same ownership as the applicant, in the five-year period before the application for a permit is lodged.	Not applicable.
5.	An avoid and minimise statement.	See Section 7.1.3.
6.	A copy of any Property Vegetation Plan contained within an agreement made pursuant to section 69 of the <i>Conservation</i> , Forests and Lands Act 1987 that applies to the native vegetation to be removed.	Not applicable.
7.	Where the removal of native vegetation is to create defendable space, a written statement explaining why the removal of native vegetation is necessary.  This statement is not required when the creation of defendable space is in conjunction with an application under the Bushfire Management Overlay.	Not applicable.
8.	If the application is under Clause 52.16, a statement that explains how the proposal responds to the Native Vegetation Precinct Plan considerations (at decision guideline 8).	Not applicable.



	Application requirement	Response
9.	An offset statement providing evidence that an offset that meets the offset requirements for the native vegetation to be removed has been identified and can be secured in accordance with the Guidelines.	See Section 7.1.7 and Appendix 6.

	Additional requirements for applications in the Deta	iled assessment pathway
	Application requirement	Response
	A site assessment report of the native vegetation to be removed, including the following:	
	<ul> <li>A habitat hectare assessment of any patches of native vegetation, including the condition, extent (in hectares), Ecological Vegetation Class and bioregional conservation status.</li> </ul>	See Section 5.2.1 and Appendix 1.
10.	<ul> <li>The location, number, circumference (in centimetres measured at 1.3 metres above ground level) and species of any large trees within patches.</li> </ul>	See Appendix 2.
	<ul> <li>The location, number, circumference (in centimetres measured at 1.3 metres above ground level) and species of any scattered trees, and whether each tree is small or large.</li> </ul>	See Appendix 2.
	Information about impacts on rare or threatened species habitat, including the following:	Not applicable – no threatened species habitat impacts identified in the NVR
	The relevant section of the Habitat importance map for each rare or threatened species requiring a species offset.	Report at Appendix 5.
11.	For each rare or threatened species that the native vegetation to be removed is habitat for, according to the Habitat importance maps:	
	<ul><li>the species' conservation status;</li></ul>	
	<ul> <li>the proportional impact of the removal of native vegetation on the total habitat for that species; and</li> </ul>	
	<ul> <li>whether the habitats are highly localised habitats, dispersed habitats, or important areas of habitat within a dispersed species habitat.</li> </ul>	



## 2. Introduction

Urbis engaged Nature Advisory Pty Ltd to conduct a native vegetation assessment of an approximately 12-hectare area of land in Yarrawonga, approximately 80 kilometres west-northwest of Wodonga. The specific area investigated, referred to herein as the 'study area', comprised the whole of the properties at 38 Brears Road, 22 Brears Road, 5 Jacqueline Court, 4 Jacqueline Court, and 10 Brears Road, as well as the easternmost corner of 52 Brears Road. Adjacent road reserves were also included in the study area. A residential village is proposed for the study area, with an approximately 2.4-hectare area of open space in the north of the study area.

This investigation was commissioned to provide information on the extent and condition of native vegetation in the study area according to Victoria's *Guidelines for the removal, destruction or lopping of native vegetation* (DELWP 2017), and any potential impacts on flora and fauna matters listed under the state *Flora and Fauna Guarantee Act* 1988 (FFG Act) and the Commonwealth *Environment Protection and Biodiversity Conservation Act* 1999 (EPBC Act). This report outlines any implications under relevant national, state and local legislation and policy frameworks.

Specifically, the scope of the investigation included the following:

- A review of existing information on the flora and native vegetation of the study area and surrounds including the following:
  - DEECA's Native Vegetation Information Management system (NVIM); and
  - DEECA's NatureKit.
- A site survey involving the following:
  - Characterisation and mapping of native vegetation on the site, as defined in Victoria's Guidelines for the removal, destruction or lopping of native vegetation (the 'Guidelines');
  - Assessment of native vegetation in accordance with the Guidelines, including habitat hectare assessment and/or scattered tree assessment; and
  - Compilation of a flora species list for the site.

This investigation was undertaken by a team from Nature Advisory comprising Tessa Doherty (Botanist) and Chris Armstrong (Senior Botanist & Project Manager).



# 3. Planning and legislative considerations

This investigation and report address the application on the site of relevant legislation and planning policies that protect biodiversity. Local, state and Commonwealth controls are summarised below.

#### 3.1. Planning provisions

The study area is located within the Moira Shire local government area and is currently zoned Low Density Residential Zone (LDRZ) and Rural Living Zone (RLZ) in the Moira Planning Scheme. Most of the study area lies within the LDRZ, with only a small section in the northeast corner covered by the RLZ.

There are no implications for the current proposal under the LDRZ. Implications of the RLZ are discussed in Section 7.2.2.

Planning provisions are established under the *Victorian Planning and Environment Act* 1987 and are incorporated into all Victorian Planning Schemes. Relevant planning provisions are discussed below.

#### 3.1.1. Planning Policy Framework

Clause 12.01 of Victorian planning schemes provides an overarching framework to protect and enhance Victoria's biodiversity.

A response of how this application addresses this policy is provided in Section 7.1

#### 3.1.2. Overlays

No overlays which cover the study area are relevant to this investigation. The study area is recognised as a Bushfire Prone Area (BPA).

A Bushfire Management Overlay (BMO) covers the north of the study area, however this does not have any implications for the current investigation and is not discussed further in this report.

#### 3.1.3. Particular provisions – Native Vegetation (Clause 52.17)

The content of this report aims to address the requirements under Clause 52.17 – *Native Vegetation*.

The purpose of Clause 52.17 is to ensure that there is no net loss to biodiversity as a result of the removal, destruction or lopping of native vegetation. This is achieved by applying the following three step approach in accordance with the *Guidelines for the removal, destruction or lopping of native vegetation* (DELWP 2017), herein referred to as 'the Guidelines'.

- 1. Avoid the removal, destruction or lopping of native vegetation.
- 2. Minimise impacts from the removal, destruction or lopping of native vegetation that cannot be avoided.
- 3. Provide an offset to compensate for the biodiversity impact if a permit is granted to remove, destroy or lop native vegetation.

This provision states that permit is required to remove, destroy or lop native vegetation, including dead native vegetation. This does not apply to the following:

- If an exemption in Table 52.17-7 specifically states that a permit is not required.
- If a native vegetation precinct plan corresponding to the land is incorporated into the planning scheme and listed in the schedule to Clause 52.16.
- The native vegetation is specified in a schedule to Clause 52.17.



#### Application requirements

Any application to remove, destroy or lop native vegetation must comply with the application requirements specified in the Guidelines (DELWP 2017).

When assessing an application, Responsible Authorities are also obligated to refer to Clause 12.01-2 (Native vegetation management) in the Planning Scheme that, in addition to the Guidelines, refers to the following:

- Assessor's handbook applications to remove, destroy or lop native vegetation (Version 1.1) (DELWP 2018a).
- Statewide biodiversity information maintained by DEECA.

#### Referral to DEECA

Clause 66.02-2 of the planning scheme determines the role of DEECA in the assessment of native vegetation removal permit applications. If an application is referred, DEECA may make certain recommendations to the responsible authority in relation to the permit application.

Any application to remove, destroy or lop native vegetation must be referred to DEECA if any of the following apply:

- The impacts to native vegetation fall within the Detailed Assessment Pathway;
- A property vegetation plan applies to the site; or
- The native vegetation is on Crown land that is occupied or managed by the responsible authority.

Implications under this particular provision are discussed in Section 7.1.

#### 3.2. EPBC Act

The *Environment Protection and Biodiversity Conservation Act* 1999 (EPBC Act) protects a number of threatened species and ecological communities that are considered to be of national conservation significance. Any significant impacts to these species require the approval of the Australian Minister for the Environment.

If there is a possibility of a significant impact on nationally threatened species, communities or listed migratory species, a Referral under the EPBC Act should be considered. The Minister will decide whether the project will be a 'controlled action' under the EPBC Act after 20 business days, in which case the project can only be undertaken with the approval of the Minister. This approval depends on a further assessment and approval process (lasting between three and nine months, depending on the level of assessment).

Implications under the EPBC Act for the current proposal are discussed in Section 7.3.

#### 3.3. FFG Act

The Victorian Flora and Fauna Guarantee Act 1988 (FFG Act) includes:

- a Threatened List (DEECA 2023d); and
- a Protected Flora List (DELWP 2019).

This Act generally only has implications for impacts to FFG-listed values where they occur on Public Land.



#### Threatened List

The FFG Threatened List represents Victoria's single operational list of threatened flora, fauna and communities. Each species is assigned a threatened status which aligns with the listing categories and criteria for the International Union for the Conservation of Nature (IUCN) Red List.

Although there are no legislative implications for impacts to these species on private land under the FFG Act, these values should be avoided wherever possible, in recognition of their threatened status at a state level.

Any application for a planning permit may also be assessed by the responsible or referral authority for potential impacts to FFG threatened values as part of broader considerations of impacts to biodiversity.

#### Protected Flora List

The Protected Flora List includes plants from three sources:

- Plant taxa (species, subspecies or varieties) listed as threatened under the FFG Act,
- Plant taxa belonging to communities listed as threatened under the FFG Act, and
- Plant taxa which are not threatened but require protection for other reasons. For example, some species which are attractive or highly sought after, such as orchids, daisies, and grass trees, are protected so that the removal of these species from the wild can be controlled (DELWP 2019).

Under the Act, any removal of protected flora from public land requires a Protected Flora Permit, which must be obtained from the relevant regional DEECA officer. This can only be obtained after the removal of this flora is approved as part of a planning permit.

Implications under the FFG Act for the current proposal are discussed in Section 7.4.

#### 3.4. CaLP Act

The Catchment and Land Protection Act 1994 (CaLP Act) requires that landowners (or a third party to whom responsibilities have been legally transferred) must eradicate regionally prohibited weeds and prevent the growth and spread of regionally controlled weeds.

Weed species listed under the CaLP Act that have been recorded in the study area are discussed in Section 7.5.



# 4. Existing information and methods

#### 4.1. Existing information

Existing information used for this investigation is described below.

#### 4.1.1. Existing reporting and documentation

The existing documentation below, relating to the study area, was reviewed.

- Moira Planning Scheme; and
- Yarrawonga LLC Masterplan Option 11 DA002 (development plan dated 4th October 2023).

#### 4.1.2. Native vegetation

Pre-1750 (pre-European settlement) vegetation mapping administered by DEECA was reviewed to determine the type of native vegetation likely to occur in the study area and surrounds. Information on Ecological Vegetation Classes (EVCs) was obtained from published EVC benchmarks. These sources included the following:

- Relevant EVC benchmarks for the Murray Fans bioregion<sup>1</sup> (DSE 2004a); and
- NatureKit (DEECA 2023a).

#### 4.2. Field methods

The field assessment was conducted across two days on the 26th and 27th of July 2023. During this assessment, the study area was surveyed on foot.

Sites in the study area found to support native vegetation were mapped through a combination of aerial photograph interpretation and ground-truthing using ArcGIS Field Maps® (Esri).

#### 4.2.1. Native vegetation

Native vegetation is currently defined in Clause 73.01 of all Victorian planning schemes as 'plants that are indigenous to Victoria, including trees, shrubs, herbs and grasses'. The Guidelines (DELWP 2017) further classify native vegetation as belonging to two categories:

- Patch; or
- Scattered tree.

#### 4.2.2. Flora species and habitats

Records of flora species were made in conjunction with sampling methods used to undertake habitat hectare assessments of the native vegetation described above. Specimens requiring more detailed identification were collected and identified with additional resources.

Species protected under the FFG Act were determined by crosschecking species recorded against the FFG Act *Protected Flora List* (DELWP 2019).

<sup>&</sup>lt;sup>1</sup> A bioregion is defined as "a geographic region that captures the patterns of ecological characteristics in the landscape, providing a natural framework for recognising and responding to biodiversity values". In general, bioregions reflect underlying environmental features of the landscape (DNRE 1997).



#### 4.2.3. Threatened ecological communities

The likelihood of EPBC and FFG listed threatened ecological communities occurring in the study area was considered by checking general field observations against published descriptions of the listed communities.

#### 4.2.4. Limitations

The short duration and seasonal timing of field assessments can result in some species not being detected when these may occur at other times. Additionally, some flora species and lifeforms may be undetectable at the time of survey or unidentifiable due to a lack of flowers or fruit.

The study area contained many planted eucalypts interspersed with remnant eucalypt species. Where planted species are indigenous to the local area, it can be difficult to determine whether an individual has been planted or established naturally. A conservative approach was used, and any eucalypt species known to occur naturally around the region (River Red-gum and Grey Box) were assumed to be remnant and recorded as native vegetation. Other species of eucalypt recorded amongst planted trees (namely Red Box and Blakely's Red-gum) were considered to be planted as the study area was not considered to be suitable for these species to have established naturally (i.e., slope and aspect do not meet the requirements of theses species).

The site assessment was conducted during winter. Dense growth of winter-growing annual weeds such as pasture grasses and Onion Grass limited visibility of native ground cover in some patches. Where this is the case, a conservative approach has been taken with mapping native vegetation extent. As such, the extent of patches delineated using native grass cover would likely vary slightly if sampled at different times of year. Despite this, timing of the survey and condition of vegetation were otherwise considered suitable to ascertain the extent and condition of native vegetation.



## 5. Assessment results

#### 5.1. Site description

The study area (Figure 1) supported brown clay loam on a relatively flat landscape with a slight slope down towards the Murray River in the north. Some small wetlands occur just north of the study area. An old dam occurred in the north of the study area but did not contain water at the time of the field survey.

The study area is currently used for low-density residential blocks and a holiday park. Surrounding land predominantly supported low-density dwellings and stock grazing to the east and west. South of the study area was primarily cropping, and the Yarrawonga Regional Park occurs directly to the north.

Vegetation within the holiday park portion of the study area contained a mixture of both planted and remnant canopy trees with a generally disturbed and non-native ground cover. Vegetation in the north of the study area consisted of Riverine Swamp Forest (EVC 814) in proximity to lower-lying areas associated with the Murray River. Patches varied in quality, with those further from the river generally being lower quality due to an absence of indigenous understorey elements and large trees as well as the prevalence of non-native grassy weeds. These patches were all dominated by River Red-gum with occasional indigenous graminoids and herbs including Rush, Warrego Summer-grass and Buttercup. Vegetation further from the river comprised Plains Woodland (EVC 803) and was generally dominated by Grey Box, with the occasional River Red-gum. Understorey was variable in these patches and ranged from a few indigenous grass species to a range of indigenous herbs and graminoids dominated by Red-leg Grass, Spider-grass, Rigid Panic and Wallaby-grass.

The study area lies within the Murray Fans bioregion, within the North East catchment management area and on Yorta Yorta Country.

#### 5.2. Native vegetation

#### 5.2.1. Patches of native vegetation

Pre-European EVC mapping (DEECA 2022a) indicated that the study area and surrounds would have supported Riverine Swamp Forest (EVC 814), Plains Woodland (EVC 803), Riverine Grassy Woodland (EVC 295), Floodplain Grassy Woodland (EVC 809) and Sedgy Riverine Forest (EVC 816) prior to European settlement based on modelling of factors including rainfall, aspect, soils and remaining vegetation.

Evidence on site, including floristic composition and soil characteristics, suggested that Plains Woodland (EVC 803) occurred in the south of the study area and Riverine Swamp Forest (EVC 814) was present in the north (Figure 1).

Ten patches (referred to herein as habitat zones) comprising the abovementioned EVCs, were identified in the study area (Table 1). This totalled an area of 3.239 hectares of native vegetation in patches and included 21 large trees.



Table 1: Description of habitat zones in the study area

Habitat Zone	EVC	Description
A, B, C, D &	Riverine Swamp	These habitat zones were all located towards the north of the study area and associated with the damp areas in proximity to the Murray River. Habitat Zones C and J were dominated by a healthy canopy of River Redgum to 25 metres tall, whereas Habitat Zones A, B and D comprised mostly immature River Red-gum.
J	Forest (EVC 814)	Understory species diversity varied considerably between patches but comprised predominantly non-native annual grasses and pasture weeds. Scattered native graminoids and herbs were present, with the highest cover and diversity in Habitat Zone C. Dominant native understory species included Warrego Summer-grass and various species of Rush.
5 5 0 H 2	District Manufferral	These habitat zones were all located on the plains away from the Murray River. Habitat Zones E, H and I were dominated by Grey Box to 20 metres tall, while Habitat Zones F and G were dominated by River Red-gum. The presence of a grassy and chenopod-dominated understorey suggested these areas were best described as Plains Woodland.
E, F, G, H &	Plains Woodland (EVC 803)	Understorey species diversity varied between patches, but was mostly dominated by non-native annual grasses and pasture weeds. A range of native graminoids were present and comprised mostly Red-leg Grass, Rigid Panic, Spider Grass and Wallaby Grass. A range of native herbs were present at low cover including Swamp Crassula, Variable Sida, Nodding Saltbush and New Holland Daisy.

The habitat hectare assessment results for these habitat zones are provided in Table 2. More detailed habitat scoring results are presented in Appendix 1. Details of large trees in patches are provided in Appendix 2.

Table 2: Summary of habitat hectare assessment results

Habitat Zone	EVC	Area (ha)	Condition score (out of 100)	No. of large trees in HZ
А	Riverine Swamp Forest (EVC 814)	0.019	16	0
В	Riverine Swamp Forest (EVC 814)	0.107	29	0
С	Riverine Swamp Forest (EVC 814)	0.550	46	14
D	Riverine Swamp Forest (EVC 814)	0.095	22	0
E	Plains Grassland (EVC 803)	0.330	26	1
F	Plains Grassland (EVC 803)	0.068	19	0
G	Plains Grassland (EVC 803)	0.374	25	2



Habitat Zone	EVC	Area (ha)	Condition score (out of 100)	No. of large trees in HZ
Н	Plains Grassland (EVC 803)	0.064	30	1
I	Plains Grassland (EVC 803)	1.578	27	2
J	Riverine Swamp Forest (EVC 814)	0.054	24	1
	Total	3.239		21

#### 5.2.2. Scattered trees

Scattered trees recorded in the study area would once have comprised the canopy component of Riverine Swamp Forest (EVC 814) and Plains Grassland (EVC 803).

Fifty-two scattered trees occurred in the study area (Figure 1), including the following:

- 10 large scattered trees (≥ 60-centimetre DBH for EVC 803 or ≥ 90-centimetre DBH for EVC 814); and
- 42 small scattered trees (< 60-centimetre DBH for EVC 803 or ≥ 90-centimetre DBH for EVC 814).</p>

Details of all scattered trees recorded are listed in Appendix 2.





Figure 1: Study area and native vegetation

Project number: 23166 Project: Brears Road, Yarrawonga Date: 21/08/2023

- Study area
- ☑Plains Woodland (EVC 803)
- DEECA mapped wetland

#### Native vegetation

- Large tree in patch
- Large scattered tree
- Small scattered tree





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#### 5.3. Flora species

#### 5.3.1. Species recorded

During the field assessment, 56 plant species were recorded, of which 26 (46%) were indigenous and 30 (54%) were introduced or non-indigenous native in origin (Appendix 3).

#### 5.3.2. Listed species

No FFG Act or EPBC Act-listed flora species were recorded during the field survey.

The study area has the potential to support species listed under the EPBC Act and/or the FFG Act, within areas of high-quality habitat, namely Habitat Zone C. This habitat zone contained a diverse array of native species and was not subject to historical disturbance. However, a likelihood of occurrence assessment would be required to identify such species.

Threatened species were considered unlikely to occur elsewhere within the study area due to the historical and current disturbance of the majority of the study area, the prevalence of high threat weeds as well as the low flora diversity in patches of vegetation. Additionally, non-cryptic species such as Buloke would have been readily identifiable during the site assessment and no such species were recorded.

#### 5.4. Listed ecological communities

#### **EPBC** Listed communities

No EPBC Listed communities were recorded or considered to have the potential to occur within the study area due to an absence of suitable floristic indicators and dominance of weeds.

#### FFG Listed communities

No FFG Listed communities were recorded or considered to have the potential to occur within the study area due to an absence of suitable floristic indicators.



# 6. Impact assessment

#### 6.1. Proposed development

The proposal involves a multi-staged residential development of the entirety of the study area, with the exception of an open space area in the far north abutting the riparian vegetation. This reserve partially retains Habitat Zone C as well as the entirety of Habitat Zones D and J, as shown in Figure 2.

#### 6.1.1. Impacts to native vegetation

The proponent proposes to remove 3.504 hectares of native vegetation requiring a permit under Clause 52.17, comprising:

- 2.476 hectares of native vegetation in patches (including 3 large trees in patches); and
- 41 scattered trees (namely 3 large scattered trees and 38 small scattered trees), equating to an area loss of 1.028 hectares.

To determine impacts to native vegetation, the proposed development plan was overlaid with the native vegetation mapped as part of this investigation. Where mapped native vegetation intersects with the development layout, this was considered to be impacted. In addition to this, the following instances of consequential removal were accounted for:

- Trees with the more than 10% of their TPZ encroached, unless otherwise deemed retained by the arborist.
- A 2 metre construction buffer around the wetland to be constructed in the north of the site.
- Given that underneath the retained canopy trees was generally weedy in nature and only transitioned to native ground cover beyond the canopy, where a canopy tree was deemed retained, its dripline was excluded from the offset area.

#### Impacts to trees

In accordance with the Assessor's Handbook (DELWP 2018a), a tree is deemed lost when earthworks encroach on more than 10% of the Tree Protection Zone (TPZ), unless deemed otherwise by an arborist.

However, trees which form part of a 'patch' of native vegetation are not required to be individually mapped in accordance with the habitat hectare assessment method, unless they meet the minimum DBH of a large tree under the relevant EVC Benchmark.

#### 6.1.2. Impacts to listed flora species

The proposed development is unlikely to impact on any listed flora values due to the retention of the majority of Habitat Zone C, with the exception of Trees 291, 310 and 312, which were deemed lost due to TPZ encroachment resulting from the construction of the wetland. Habitat Zone C has been identified as the only area with the potential to support such values as discussed in Section 5.3.2.

Implications under the EPBC Act are discussed in Section 7.3, while implications under the FFG Act are detailed in Section 7.4.

#### 6.1.3. Impacts to listed communities

The study area is unlikely to support any EPBC or FFG listed communities as discussed in Section 5.4, therefore there are no anticipated impacts to listed communities from the proposal.



# 7. Implications under legislation and policy

#### 7.1. Implications under Clause 52.17

A permit for the proposed removal of native vegetation is required under Cl. 52.17 of the Moira Planning Scheme.

#### 7.1.1. Exemptions to Clause 52.17

Native Vegetation - Clause 52.17-7

Exemptions listed in Cl. 52.17-7 relevant to the study area are:

Planted vegetation: Native vegetation that is to be removed, destroyed or lopped that was either planted or grown as a result of direct seeding. This exemption does not apply to native vegetation planted or managed with public funding for the purpose of land protection or enhancing biodiversity.

A variety of planted eucalypts (namely Lemon-scented Gum, Spotted Gum and Ironbark) and shrubs (Paperbarks and Bottlebrushes) were recorded throughout the study area. These were mainly located throughout the holiday park and in the property at 10 Brears Road. These trees and shrubs were recognised as planted due to their linear nature, even spacing, similar age class, and location within garden beds amongst non-native plants.



Photo 1: A variety of planted trees within the Holiday Park

#### 7.1.2. Impacts to native vegetation

The proposed development will result in the loss of a total extent of 3.504 hectares of native vegetation under the Guidelines as represented in Figure 2 and documented in the *Native Vegetation Removal* (NVR) report provided by DEECA (Appendix 5).

This comprised the following:

2.476 hectares of native vegetation in patches (including 3 large trees in patches); and



 41 scattered trees (namely 3 large scattered trees and 38 small scattered trees), equating to an area loss of 1.028 hectares.

The native vegetation to be removed is in an area mapped as an endangered Ecological Vegetation Class.

It has been advised that no native vegetation has been removed on the properties under investigation within the last five years.

Photographs of native vegetation proposed for removal are provided in Appendix 4.

#### 7.1.3. Avoid and minimise statement

In accordance with the Guidelines, all applications to remove native vegetation must provide an avoid and minimise statement that describes any efforts undertaken to avoid the removal of, and minimise the impacts to biodiversity and other values of native vegetation, and how these efforts were focused on areas of native vegetation with the highest value. Efforts to avoid and minimise impacts to native vegetation in the current application are presented as follows:

- Site level planning The following changes to the development plan have been undertaken to consider the avoid and minimise principles:
  - The design has been sited to avoid the majority of the highest quality native vegetation in the study area, being Habitat Zone C, which is contiguous with the Yarrawonga Regional Park and is considered to be the area with the highest potential to contain listed matters.
  - The development layout has been redesigned in consultation with an Ecologist and an Arborist which has sought to retain trees identified as containing the highest ecological values within the site, namely large trees, 1,16,20,21,27,30, 117, 452, 522, 537 and 572. The previous design impacted on all of these trees.
  - Tree 380 (a large dead hollow bearing tree) is proposed to be relocated to the wetland area to create fauna habitat as it is not deemed safe to retain within the development area.
  - The majority of impacts are to low quality patches of vegetation that are deemed a patch due to meeting the minimum condition threshold (>25% perennial native cover). These patches generally comprise of one or two dominant native grass species, lack diversity and contain a high weed cover.

Further opportunities exist to avoid and minimise impacts to native vegetation and these are recommended in Section 7.6.

#### 7.1.4. Modelled species important habitat

The current proposal footprint will not have a significant impact on habitat for any rare or threatened species as determined in the NVR Report (Appendix 5).

#### 7.1.5. Assessment pathway

The assessment pathway is determined by the location category and extent of native vegetation as detailed for the study area as follows:

- Location Category: Location 2
- Extent of native vegetation: A total of 3.504 hectares of native vegetation (including 6 large trees).

Based on the extent of native vegetation removal being  $\geq$  0.5 hectares, the Guidelines stipulate that the proposal is to be assessed under the **Detailed** assessment pathway, as determined by the following matrix:



Table 3: Assessment pathway matrix

Extent of native vegetation		Location Category	
Extent of native vegetation	Location 1	Location 2	Location 3
< 0.5 hectares and not including any large trees	Basic	Intermediate	Detailed
< 0.5 hectares and including one or more large trees	Intermediate	Intermediate	Detailed
≥ 0.5 hectares	Detailed	Detailed	Detailed

This proposal would trigger a referral to DEECA based on the above criteria.

#### 7.1.6. Offset requirements

Offsets required to compensate for the proposed removal of native vegetation from the study area are as follows:

- 1.137 general habitat units and must include the following offset attribute requirements:
  - Minimum strategic biodiversity value (SBV) of 0.581.
  - Occur within the Goulburn Broken Catchment CMA boundary or the Moira Shire Council municipal district.
  - Include protection of at least 6 large trees.

Under the Guidelines all offsets must be secured prior to the removal of native vegetation.

#### 7.1.7. Offset statement

The offset target for the current proposal will be achieved via a third-party offset.

An online search of the Native Vegetation Credit Register (NVCR) has shown that the required offset is currently available for purchase from a native vegetation credit owner (DEECA 2023c).

Evidence that the required offset is available is provided in Appendix 6. The required offset would be secured following approval of the application to remove native vegetation.





## Figure 2: Native vegetation to be removed

Project: Brears Road, Yarrawonga Date: 06/11/2023 Project number: 23166

- ☐Study area
- -Proposed layout
- O Hollow-bearing tree
- Native vegetation
- Large tree in patch
- Large scattered tree
- Small scattered tree
- ☑Plains Woodland (EVC 803)
- □Riverine Swamp Forest (EVC 814)
- Tree Protection Zone (TPZ) × Tree to be removed
- Native vegetation to be removed





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#### 7.2. Implications under other planning provisions

#### 7.2.1. Clause 12.01

The objectives of Clause 12.01 – *Biodiversity* are to protect and enhance Victoria's biodiversity and to ensure that there is no let loss as a result of the removal, destruction or lopping of native vegetation. This is in general, achieved by the 'Guidelines' and the avoid, minimise and offset obligations as detailed within this report. However, this clause is also relevant to the application by considering the protection and enhancement of habitat for indigenous plants and animals in urban areas and avoiding fragmentation of habitat.

This application responds to these objectives by retention of the highest quality remnant native vegetation in the north of the study area (Habitat Zone C). These retained areas are also recommended to be enhanced as discussed in Section 7.6 to further strengthen the biodiversity corridor along the Yarra River.

#### 7.2.2. **Zoning**

#### Rural Living Zone (RLZ) – Clause 35.03 (Northern portion of the study area)

Under the RLZ, a permit is required to construct a building or carry out works. Before deciding on an application, the responsible authority must consider decision guidelines relating to the environment. The following decision guideline is relevant to the current investigation:

• The need to protect and enhance the biodiversity of the area, including the need to retain vegetation and faunal habitat and the need to revegetate land including riparian buffers along waterways, gullies, ridgelines, property boundaries and saline discharge and recharge area.

The current proposal protects remnant riparian native vegetation in the north of the study area. Suggestions for additional retention of native vegetation and enhancement of retained areas are included in Section 7.6.

#### 7.3. Implications under the EPBC Act

The EPBC Act protects a number of threatened species and ecological communities that are considered to be of national conservation significance. Any significant impacts on these species require the approval of the Australian Minister for the Environment.

Although a likelihood of occurrence analysis was not undertaken, the proposed development is unlikely to result in a significant impact on any EPBC Act-listed values based on general field observations as discussed in Section 6.1.2 and 6.1.3 as well as the avoidance of Habitat Zone C (besides deemed lost from TPZ encroachment) which is the only area considered to have the potential to support listed mattered.

Therefore, there are no implications under the EPBC Act.

#### 7.4. Implications under the FFG Act

The Victorian *Flora and Fauna Guarantee Act* 1988 (FFG Act) includes:

- a Threatened List (DEECA 2023d); and
- a Protected Flora List (DELWP 2019).

Impacts to FFG-listed values generally only has implications for where they occur on Public Land.



#### Threatened species

Although a likelihood of occurrence analysis was not undertaken, the proposed development is unlikely to result in a significant impact on any FFG Act-listed values. based on general field observations as discussed in Section 6.1.2 and 6.1.3 as well as the avoidance of Habitat Zone C which is the only area considered to have the potential to support listed mattered.

Although there are no legislative implications for impacts to these species on private land under the FFG Act, these values should be avoided wherever possible, in recognition of their threatened status at a state level.

Any application for a planning permit may also be assessed by the responsible or referral authority for potential impacts to FFG threatened values as part of broader considerations of impacts to biodiversity, irrespective of land tenure.

#### Protected Flora

No FFG Act values listed as protected are anticipated to be impacted from the proposed development on public land. Therefore, a Protected Flora Permit under the FFG Act would not be required for the current proposal.

#### 7.5. CaLP Act

The Catchment and Land Protection Act 1994 (CaLP Act) requires that landowners (or a third party to whom responsibilities have been legally transferred) must eradicate regionally prohibited weeds and prevent the growth and spread of regionally controlled weeds.

Property owners who do not eradicate Regionally prohibited weeds or prevent the growth and spread of Regionally controlled weeds for which they are responsible, may be issued with a Land Management Notice or Directions Notice that requires specific control work to be undertaken.

In accordance with the *Catchment and Land Protection Act* 1994, the noxious weed species listed below, that were recorded in the study area, must be controlled.

- Spear Thistle;
- Paterson's Curse; and
- Horehound.

Precision control methods that minimise off-target kills (e.g. spot spraying) should be used in environmentally sensitive areas (e.g. within or near native vegetation, waterways, etc.).

#### 7.6. Design and Construction mitigation recommendations

The following design recommendations are provided to avoid/minimise impacts to native vegetation, and flora and fauna habitats. All of the following recommendations aim to address the relevant decision guidelines laid out in Section 7.2.2.

It is recommended that an Arboricultural Impact Assessment report is undertaken to determine potential TPZ incursion of scattered trees and trees within mapped patches of native vegetation. An arborist is also qualified to deem trees retained, even if more than 10% of the TPZ is encroached if there is sufficient justification. While this investigation has deemed that trees surrounding the wetland proposed to be constructed are likely to be impacted based on TPZ, an arborist should be engaged to check if these trees can be feasibly protected and considered retained. Protection of these remnant trees would reduce the extent of native vegetation removal and further avoid and minimise impacts to native vegetation.



Opportunities exist to enhance the retained native vegetation in the north of the study area (I.e., Habitat Zones B, C and J). Habitat Zones B and J are largely lacking any native understorey elements due to heavy weed invasion. It is recommended that weed control and EVC-appropriate understorey species revegetation works are undertaken to enhance the biodiversity values of this area and increase connectivity with adjacent high quality riparian vegetation. It is recommended that a Land Management Plan associated with the future construction of a retarding basin and adjacent retained native vegetation is developed. This would detail the management of retained native vegetation so as to protect and enhance its values during and after construction.

Recommendations to mitigate impacts to vegetation during construction are provided below:

- Establish appropriate vegetation protection zones around areas of native vegetation to be retained prior to works.
- Establish appropriate TPZs around scattered native trees to be retained prior to works.
- Ensure all construction personnel are appropriately briefed prior to works, and that no construction personnel, machinery or equipment are placed inside vegetation zones/TPZs.
- A suitably qualified zoologist should undertake a pre-clearance survey of planted trees to be removed during the week prior to removal to identify the presence of any nests or hollows.
- If considered necessary based on the results of the pre-clearance survey, a suitably qualified zoologist should be on site during any tree removal works to capture and relocate any misplaced fauna that may be present.



## 8. References

- DEECA 2023a, *NatureKit*, Department of Energy, Environment, and Climate Action, East Melbourne, Victoria, viewed 24<sup>th</sup> July 2023, <a href="https://www.environment.vic.gov.au/biodiversity/naturekit">https://www.environment.vic.gov.au/biodiversity/naturekit</a>.
- DEECA 2023b, *Native Vegetation Information Management system*, Department of Energy, Environment, and Climate Action, East Melbourne, Victoria, https://nvim.delwp.vic.gov.au/.
- DEECA 2023c, Online Search of the Native Vegetation Credit Register, Department of Energy, Environment, and Climate Action, East Melbourne, viewed 9<sup>th</sup> August 2023, <a href="https://nvcr.delwp.vic.gov.au">https://nvcr.delwp.vic.gov.au</a>.
- DEECA 2023d, Flora and Fauna Guarantee Act 1988 Threatened List, June 2023, Department of Energy, Environment, and Climate Action, East Melbourne.
- DELWP 2017, Guidelines for the removal, destruction or lopping of native vegetation-, Department of Environment, Land, Water and Planning, East Melbourne.
- DELWP 2018a, Assessor's Handbook Applications to remove, destroy or lop native vegetation (Version 1.1, dated October 2018), Department of Environment, Land, Water and Planning, East Melbourne.
- DELWP 2018b, *Native Vegetation Flora and Fauna Guarantee Act Listed Communities* (Resource Name: NV2005\_FFG\_COMM, dated 1 February 2018), Department of Environment, Land, Water and Planning, East Melbourne.
- DELWP 2019, Flora and Fauna Guarantee Act 1988 Protected Flora List, November 2019, Department of Environment, Land, Water and Planning, East Melbourne.
- Department of Sustainability and Environment (DSE) 2004a, *Ecological Vegetation Class (EVC)*Benchmarks by Bioregion, Department of Environment, Land, Water and Planning, East Melbourne.
- Department of Sustainability and Environment (DSE) 2004b, Native Vegetation: sustaining a living landscape, Vegetation Quality Assessment Manual guidelines for applying the Habitat Hectare scoring method (Version 1.3), Department of Environment, Land, Water and Planning, East Melbourne.
- Parkes D, Newell G & Cheal D 2003, Assessing the Quality of Native Vegetation: The 'habitat hectares' approach', *Ecological Management and Restoration* 4:29 38.



## Appendix 1: Detailed habitat hectare assessment results



# Appendix 1: Detailed habitat hectare assessment results

Habitat Zone	ne		4	Ф	ပ	Q	ш	L	g	Ξ	-	٦
Bioregion			MuF	MuF	MuF	MuF	MuF	MuF	MuF	MuF	MuF	MuF
EVC Number	er		814	814	814	814	803	803	803	803	803	814
Total area	Total area of Habitat Zone (ha)		0.019	0.107	0.55	0.095	0.33	0.068	0.374	0.064	1.578	0.054
	Large Old Trees	/10	0	0	თ	0	က	0	4	10	က	7
	Tree Canopy Cover	/2	0	0	വ	0	4	വ	က	വ	3	4
	Lack of Weeds	/15	4	0	0	0	4	0	4	0	0	0
tion	Understorey	/25	വ	വ	വ	വ	വ	വ	വ	വ	10	വ
ibnoƏ	Recruitment	/10	0	10	വ	10	0	0	0	0	က	0
Site	Organic Matter	/5	က	വ	က	ო	വ	വ	വ	വ	က	ო
	Logs	/5	0	4	വ	0	0	0	0	0	0	0
	Site condition standardising multiplier*	ising	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Site Condition subtotal	on subtotal	12	24	32	18	21	15	21	25	22	19
	Patch Size	/10	П	1	<sub>∞</sub>	П	Т	Т	1	1	4	П
ndsca Contex	Neighbourhood	/10	0	Н	2	0	П	0	0	Т	4	Н
	Distance to Core	/2	က	က	4	ო	က	က	က	3	3	ო
Total Cond	Total Condition Score	/100	16	29	46	22	26	19	25	30	27	24

\* Modified approach to habitat scoring - refer to Table 14 of DELWP's Vegetation Quality Assessment Manual (DSE 2004).



Brears Road, Yarrawonga - Native Vegetation Assessment

Appendix 2: Large trees in patches and scattered trees recorded in the study area

Tree No.	Common Name	Scientific Name	DBH (cm)	Circumference	Habitat Category	Radius of TPZ (m)	Remove/Retain	Notes
Н	Grey Box	Eucalyptus microcarpa	29	91	Small Scattered Tree	3.48	Removed	
2	Grey Box	Eucalyptus microcarpa	27	85	Small Scattered Tree	3.24	Removed	
က	Grey Box	Eucalyptus microcarpa	32	101	Small Scattered Tree	3.84	Removed	
4	Grey Box	Eucalyptus microcarpa	41	129	Small Scattered Tree	4.92	Removed	
Ŋ	River Red-gum	Eucalyptus camaldulensis	117	368	Large Scattered Tree	14.04	Removed	Dead
9	River Red-gum	Eucalyptus camaldulensis	32	101	Small Scattered Tree	3.84	Removed	
7	River Red-gum	Eucalyptus camaldulensis	06	283	Large Scattered Tree	10.8	Removed	
∞	River Red-gum	Eucalyptus camaldulensis	62	195	Small Scattered Tree	7.44	Removed	
თ	River Red-gum	Eucalyptus camaldulensis	37	116	Small Scattered Tree	4.44	Removed	
10	River Red-gum	Eucalyptus camaldulensis	49	154	Small Scattered Tree	5.88	Removed	
11	River Red-gum	Eucalyptus camaldulensis	42	132	Small Scattered Tree	5.04	Removed	
12	River Red-gum	Eucalyptus camaldulensis	32	101	Small Scattered Tree	3.84	Removed	
13	River Red-gum	Eucalyptus camaldulensis	51	160	Small Scattered Tree	6.12	Removed	
14	River Red-gum	Eucalyptus camaldulensis	42	132	Small Scattered Tree	5.04	Removed	
15	River Red-gum	Eucalyptus camaldulensis	70	220	Small Scattered Tree	8.4	Removed	Estimated
16	Grey Box	Eucalyptus microcarpa	132	415	Large Tree in Patch J	15	Retained	Hollows
17	River Red-gum	Eucalyptus camaldulensis	26	82	Small Scattered Tree	3.12	Retained	
18	River Red-gum	Eucalyptus camaldulensis	27	82	Small Scattered Tree	3.24	Retained	
19	River Red-gum	Eucalyptus camaldulensis	30	94	Small Scattered Tree	3.6	Retained	
20	River Red-gum	Eucalyptus camaldulensis	94	295	Large Scattered Tree	11.28	Retained	Dead
21	River Red-gum	Eucalyptus camaldulensis	39	123	Small Scattered Tree	4.68	Retained	



		Scientific Name	(115)	circumrerence	Habitat Category	TPZ (m)	Remove/Retain	Notes
22	River Red-gum	Eucalyptus camaldulensis	28	88	Small Scattered Tree	3.36	Retained	
23	River Red-gum	Eucalyptus camaldulensis	33	104	Small Scattered Tree	3.96	Retained	
24	River Red-gum	Eucalyptus camaldulensis	118	371	Large Scattered Tree	14.16	Retained	Dead
25	River Red-gum	Eucalyptus camaldulensis	36	113	Small Scattered Tree	4.32	Retained	
26	River Red-gum	Eucalyptus camaldulensis	11	35	Small Scattered Tree	2	Retained	
27	River Red-gum	Eucalyptus camaldulensis	19	09	Small Scattered Tree	2.28	Retained	
28	River Red-gum	Eucalyptus camaldulensis	86	308	Large Tree in Patch C	11.76	Retained	
29	River Red-gum	Eucalyptus camaldulensis	121	380	Large Tree in Patch C	14.52	Retained	
30	Grey Box	Eucalyptus microcarpa	136	427	Large Tree in Patch C	15	Retained	
31	River Red-gum	Eucalyptus camaldulensis	169	531	Large Tree in Patch C	15	Retained	
32	Grey Box	Eucalyptus microcarpa	93	292	Large Tree in Patch C	11.16	Retained	
33	Grey Box	Eucalyptus microcarpa	107	336	Large Tree in Patch C	12.84	Retained	
34	Grey Box	Eucalyptus microcarpa	142	446	Large Tree in Patch C	15	Retained	
35	Eucalypt	Eucalyptus sp.	120	377	Large Tree in Patch C	14.4	Retained	Dead
36	Eucalypt	Eucalyptus sp.	120	377	Large Tree in Patch C	14.4	Retained	Dead
37	River Red-gum	Eucalyptus camaldulensis	97	305	Large Tree in Patch C	11.64	Retained	
38	River Red-gum	Eucalyptus camaldulensis	155	487	Large Tree in Patch C	15	Retained	
39	River Red-gum	Eucalyptus camaldulensis	115	361	Large Tree in Patch C	13.8	Retained	
40	Grey Box	Eucalyptus microcarpa	102	320	Large Tree in Patch C	12.24	Retained	
41	River Red-gum	Eucalyptus camaldulensis	105	330	Large Tree in Patch C	12.6	Retained	
42	Grey Box	Eucalyptus microcarpa	139	437	Large Scattered Tree	15	Retained	
43	River Red-gum	Eucalyptus camaldulensis	166	522	Large Scattered Tree	15	Retained	



Tree No.	Common Name	Scientific Name	ОВН (ст)	Circumference	Habitat Category	Radius of TPZ (m)	Remove/Retain	Notes
44	River Red-gum	Eucalyptus camaldulensis	വ	16	Small Scattered Tree	2	Retained	
45	River Red-gum	Eucalyptus camaldulensis	9	19	Small Scattered Tree	2	Retained	
46	River Red-gum	Eucalyptus camaldulensis	52	163	Small Scattered Tree	6.24	Removed	
47	Grey Box	Eucalyptus microcarpa	26	82	Small Scattered Tree	3.12	Removed	
48	Grey Box	Eucalyptus microcarpa	22	69	Small Scattered Tree	2.64	Removed	
49	Grey Box	Eucalyptus microcarpa	27	82	Small Scattered Tree	3.24	Removed	
20	River Red-gum	Eucalyptus camaldulensis	47	148	Small Scattered Tree	5.64	Removed	
51	Grey Box	Eucalyptus microcarpa	23	72	Small Scattered Tree	2.76	Removed	
52	Grey Box	Eucalyptus microcarpa	22	173	Large Scattered Tree	9.9	Retained but deemed to be lost	
53	Grey Box	Eucalyptus microcarpa	127	399	Large Scattered Tree	15	Retained but deemed to be lost	
54	River Red-gum	Eucalyptus camaldulensis	33	104	Small Scattered Tree	3.96	Removed	
22	Grey Box	Eucalyptus microcarpa	125	393	Large Scattered Tree	15	Retained but deemed to be lost	Dead
26	Grey Box	Eucalyptus microcarpa	86	308	Large Tree in Patch I	11.76	Retained but deemed to be lost	
22	Grey Box	Eucalyptus microcarpa	92	289	Large Tree in Patch E	11.04	Retained but deemed to be lost	
28	River Red-gum	Eucalyptus camaldulensis	26	82	Small Scattered Tree	3.12	Removed	
29	River Red-gum	Eucalyptus camaldulensis	44	138	Small Scattered Tree	5.28	Removed	
09	River Red-gum	Eucalyptus camaldulensis	43	135	Small Scattered Tree	5.16	Removed	
61	River Red-gum	Eucalyptus camaldulensis	34	107	Small Scattered Tree	4.08	Removed	
62	River Red-gum	Eucalyptus camaldulensis	44	138	Small Scattered Tree	5.28	Removed	
63	River Red-gum	Eucalyptus camaldulensis	36	113	Small Scattered Tree	4.32	Removed	
64	River Red-gum	Eucalyptus camaldulensis	66	311	Large Tree in Patch G	11.88	Removed	



Tree		:		·		Radius of	!	
Š	Common Name	Scientific Name	DBH (cm)	Circumference	Habitat Category	TPZ (m)	Remove/Retain	Notes
65	River Red-gum	Eucalyptus camaldulensis	73	229	Large Tree in Patch G	8.76	Removed	
99	Grey Box	Eucalyptus microcarpa	49	154	Small Scattered Tree	5.88	Removed	
29	River Red-gum	Eucalyptus camaldulensis	44	138	Small Scattered Tree	5.28	Removed	
89	River Red-gum	Eucalyptus camaldulensis	45	141	Small Scattered Tree	5.4	Removed	
69	River Red-gum	Eucalyptus camaldulensis	28	88	Small Scattered Tree	3.36	Removed	
70	Grey Box	Eucalyptus microcarpa	110	346	Large Scattered Tree	13.2	Retained but deemed to be lost	
71	Grey Box	Eucalyptus microcarpa	23	72	Small Scattered Tree	2.76	Removed	
72	Grey Box	Eucalyptus microcarpa	114	358	Large Tree in Patch I	13.68	Removed	Hollows
73	Grey Box	Eucalyptus microcarpa	125	393	Large Tree in Patch H	15	Removed	



Appendix 3: Flora species recorded in the study area

Origin	Common name	Scientific name	EPBC	FFG- T	FFG- P	CaLP Act
*	Brown-top Bent	Agrostis capillaris				
*	Cape Weed	Arctotheca calendula				
	Sprawling Saltbush	Atriplex suberecta				
	Knotty Spear-grass	Austrostipa nodosa				
	Spear Grass	Austrostipa spp.				
	Red-leg Grass	Bothriochloa macra				
*	Kikuyu	Cenchrus clandestinus				
*	Spear Thistle	Cirsium vulgare				С
	Swamp Crassula	Crassula helmsii				
*	Paddy Melon	Cucumis myriocarpus subsp. myriocarpus				
*	Couch	Cynodon dactylon				
*	Drain Flat-sedge	Cyperus eragrostis				
*	Cocksfoot	Dactylis glomerata				
*	Paterson's Curse	Echium plantagineum				С
	Nodding Saltbush	Einadia nutans				
	Spider Grass	Enteropogon acicularis				
*	Fleabane	Erigeron spp.				
*	Musky Heron's-bill	Erodium moschatum				
	River Red-gum	Eucalyptus camaldulensis				
	Grey Box	Eucalyptus microcarpa				
+	Eucalypt	Eucalyptus spp.				
	Flat spurge	Euphorbia dallachyana				
*	Ox-tongue	Helminthotheca echioides				
*	Flatweed	Hypochaeris radicata				
	Rush	Juncus spp.				
*	Hairy Toadflax	Kickxia elatine				
	Jersey Cudweed	Laphangium luteoalbum			Р	
*	Common Peppercress	Lepidium africanum				
	Small Loosestrife	Lythrum hyssopifolia				
	Wingless Bluebush	Maireana enchylaenoides				
	Bluebush	Maireana spp.				
*	Small-flower Mallow	Malva parviflora				
*	Horehound	Marrubium vulgare				С
	Yam Daisy	Microseris spp.			Р	
	Grassland Wood-sorrel	Oxalis perennans				
*	Soursob	Oxalis pes-caprae				R
	Warrego Summer-grass	Paspalidium jubiflorum				
*	Paspalum	Paspalum dilatum				
*	Toowoomba Canary-grass	Phalaris aquatica				
*	Ribwort	Plantago lanceolata				
*	Annual Meadow-grass	Poa annua s.l.				
	Buttercup	Ranunculus spp.				
*	Onion Grass	Romulea rosea				
	Slender Dock	Rumex brownii				
*	Curled Dock	Rumex crispus				
	Wallaby Grass	Rytidosperma spp.				



Origin	Common name	Scientific name	EPBC	FFG- T	FFG- P	CaLP Act
	Prickly Saltwort	Salsola tragus				
*	Pepper Tree	Schinus molle				
	Copperburr	Sclerolaena spp.				
	Variable Sida	Sida corrugata				
*	Black Nightshade	Solanum nigrum s.l.				
*	Rough Sow-thistle	Sonchus asper s.l.				
*	Clover	Trifolium spp.				
*	Common Vetch	Vicia sativa				
	New Holland Daisy	Vittadinia spp.			Р	
	Rigid Panic	Walwhalleya proluta				

Notes: EPBC = Threatened species status under the EPBC Act; FFG-T = Threatened species status under the FFG Act; FFG-P = Listed as protected (P) under the FFG Act; CaLP Act: Declared noxious weeds under the CaLP Act (S = State Prohibited Weeds – any infestations must be reported to DEECA that is responsible for control of these; P = Regionally Prohibited Weeds – landowners must eradicate these; C = Regionally Controlled Weeds – landowners must prevent the growth and spread of these; R = Restricted Weeds – trade in these weeds and propagules, either as plants, seeds or contaminants in other materials is prohibited).

\* = introduced to Victoria

† = planted



### Appendix 4: Photographs of native vegetation proposed for removal

All photographs were taken on the  $26^{\text{th}}$  or  $27^{\text{th}}$  of July 2023.



Photo 1: Habitat Zone A in the north of the study area, which is to be impacted by the development.



Photo 2: Habitat Zone E on the western edge of the study area, which is to be impacted by the development.





Photo 3: Habitat Zone F on the southern edge of the study area, which is to be impacted by the development.



Photo 4: Habitat Zone G on the south-eastern edge of the study area, which is to be impacted by the development.





Photo 5: Habitat Zone H in the south of the study area, which is to be impacted by the development.



Photo 6: Habitat Zone I in the south of the study area, which is to be impacted by the development.





Photo 7: Scattered trees 3, 4  $\&\,5$  to be impacted by the development.



Photo 8: Scattered trees 11, 12, 13 & 14 to be impacted by the development.





Photo 9: Scattered Tree 51 to be impacted by the development (image representative of other small Grey Box trees being impacted nearby).



Photo 10: Scattered Tree 50 to be impacted by the development (image representative of other small River Redgum trees being impacted nearby).





Photo 11: Scattered trees 11, 12, 13 & 14 to be impacted by the development.



Photo 12: Scattered trees 58, 59, 60, 61, 62 & 63 to be impacted by the development.



Appendix 5: Native Vegetation Removal (NVR) report



### Native vegetation removal report

This report provides information to support an application to remove, destroy or lop native vegetation in accordance with the *Guidelines for the removal, destruction or lopping of native vegetation*. The report **is not an assessment by DELWP** of the proposed native vegetation removal. Native vegetation information and offset requirements have been determined using spatial data provided by the applicant or their consultant.

Date of issue: 07/10/2023 Report ID: NAA\_2023\_134

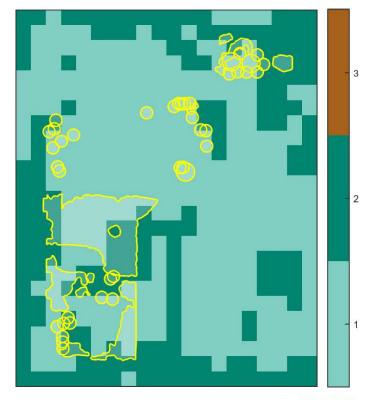
Time of issue: 9:44 am

Project ID	23166_Brears_Road_Yarrawonga_removal_231005
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### Assessment pathway

Assessment pathway	Detailed Assessment Pathway
Extent including past and proposed	3.504 ha
Extent of past removal	0.000 ha
Extent of proposed removal	3.504 ha
No. Large trees proposed to be removed	6
Location category of proposed removal	Location 2  The native vegetation is in an area mapped as an endangered Ecological Vegetation Class (as per the statewide EVC map). Removal of less than 0.5 hectares of native vegetation in this location will not have a significant impact on any habitat for a rare or threatened species.

### 1. Location map





## Native vegetation removal report

### Offset requirements if a permit is granted

Any approval granted will include a condition to obtain an offset that meets the following requirements:

General offset amount <sup>1</sup>	1.137 general habitat units
Vicinity	Goulburn Broken Catchment Management Authority (CMA) or Moira Shire Council
Minimum strategic biodiversity value score <sup>2</sup>	0.581
Large trees	6 large trees

NB: values within tables in this document may not add to the totals shown above due to rounding

Appendix 1 includes information about the native vegetation to be removed

Appendix 2 includes information about the rare or threatened species mapped at the site.

Appendix 3 includes maps showing native vegetation to be removed and extracts of relevant species habitat importance maps

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<sup>1</sup> The general offset amount required is the sum of all general habitat units in Appendix 1.

<sup>2</sup> Minimum strategic biodiversity score is 80 per cent of the weighted average score across habitat zones where a general offset is required

### Native vegetation removal report

### Next steps

Any proposal to remove native vegetation must meet the application requirements of the Detailed Assessment Pathway and it will be assessed under the Detailed Assessment Pathway.

If you wish to remove the mapped native vegetation you are required to apply for a permit from your local council. Council will refer your application to DELWP for assessment, as required. **This report is not a referral assessment by DELWP.** 

This *Native vegetation removal report* must be submitted with your application for a permit to remove, destroy or lop native vegetation.

Refer to the *Guidelines for the removal, destruction or lopping of native* vegetation (the Guidelines) for a full list of application requirements This report provides information that meets the following application requirements:

- The assessment pathway and reason for the assessment pathway
- A description of the native vegetation to be removed (partly met)
- Maps showing the native vegetation and property (partly met)
- Information about the impacts on rare or threatened species.
- The offset requirements determined in accordance with section 5 of the Guidelines that apply if approval is granted to remove native vegetation.

Additional application requirements must be met including:

- Topographical and land information
- · Recent dated photographs
- Details of past native vegetation removal
- An avoid and minimise statement
- A copy of any Property Vegetation Plan that applies
- A defendable space statement as applicable
- A statement about the Native Vegetation Precinct Plan as applicable
- A site assessment report including a habitat hectare assessment of any patches of native vegetation and details of trees
- An offset statement that explains that an offset has been identified and how it will be secured.

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For more information contact the DELWP Customer Service Centre 136 186

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Obtaining this publication does not guarantee that an application will meet the requirements of Clauses 52.16 or 52.17 of the Victoria Planning Provisions and Victorian planning schemes or that a permit to remove native vegetation will be granted.

Notwithstanding anything else contained in this publication, you must ensure that you comply with all relevant laws, legislation, awards or orders and that you obtain and comply with all permits, approvals and the like that affect, are applicable or are necessary to undertake any action to remove, lop or destroy or otherwise deal with any native vegetation or that apply to matters within the scope of Clauses 52.16 or 52.17 of the Victoria Planning Provisions and Victorian planning schemes.

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# Appendix 1: Description of native vegetation to be removed

The species-general offset test was applied to your proposal. This test determines if the proposed removal of native vegetation has a proportional impact on any rare or threatened species habitats above the species offset threshold. The threshold is set at 0.005 per cent of the mapped habitat value for a species. When the proportional impact is above the species offset threshold a species offset species offset is required. This test is done for all species mapped at the site. Multiple species offsets will be required if the species offset is required.

Where a zone requires species offset(s), the species habitat units for each species in that zone is calculated by the following equation in accordance with the Guidelines:

Species habitat units = extent x condition x species landscape factor x 2, where the species landscape factor = 0.5 + (habitat importance score/2)

The species offset amount(s) required is the sum of all species habitat units per zone

Where a zone does not require a species offset, the general habitat units in that zone is calculated by the following equation in accordance with the Guidelines:

General habitat units = extent x condition x general landscape factor x 1.5, where the general landscape factor = 0.5 + (strategic biodiversity value score/2)

The general offset amount required is the sum of all general habitat units per zone.

# Native vegetation to be removed

Information calculated by EnSym	Offset type	General							
ition calc	Habitat units	900.0	0.006	0.001	0.003	0.008	0.007	0.003	0.005
Informa	HI								
	SBV	0.800	0.800	0.650	0.650	0.650	0.646	0.630	0.630
	Extent without overlap	0.023	0.023	0.002	0.010	0.031	0.027	0.013	0.019
	Polygon Extent	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
le e	Condition score	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
nt in a GIS fi	Partial removal	ou	no	ou	no	no	no	no	no
ne applicar	Large tree(s)	0	0	0	0	0	0	0	0
Information provided by or on behalf of the applicant in a GIS file	BioEVC conservation status	Endangered	Endangered	Endangered	Endangered	Endangered	Depleted	Depleted	Depleted
ion provided by	BioEVC	muf_0803	muf_0803	muf_0803	muf_0803	muf_0803	muf_0814	muf_0814	muf_0814
Informat	Туре	Scattered Tree							
	Zone	7-	1-2	1-3	4-	1-6	1-10	1-11	1-12

by EnSym	Offset type	General														
Information calculated by EnSym	Habitat units	0.002	0.003	9000	0.008	0.008	9000	0.008	0.008	0.008	0.007	9000	0.005	9000	0.007	0.005
nformati	HI															
-	SBV	0.630	0.630	0.630	0.635	0.801	0.800	0.800	0.800	0.800	0.800	0.820	0.820	0.820	0.820	0.820
	Extent without overlap	0.010	0.013	0.024	0.031	0.029	0.022	0.031	0.031	0.031	0.025	0.022	0.019	0.021	0.024	0.019
	Polygon Extent	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
0	Condition score	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
ıt in a GIS file	Partial removal	no	no	OU	OU	OU	OU	OU	OU	no	no	OU	OU	OU	no	OL OL
e applicar	Large tree(s)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Information provided by or on behalf of the applicant in a GIS file	BioEVC conservation status	Depleted	Depleted	Depleted	Endangered											
on provided by	BioEVC	muf_0814	muf_0814	muf_0814	muf_0803											
Informati	Туре	Scattered Tree														
	Zone	1-13	1-14	1-15	1-46	1-47	1-48	1-49	1-50	1-51	1-54	1-58	1-59	1-60	1-61	1-62

	Informati	on provided by	Information provided by or on behalf of the applicant in a GIS file	ıe applican	ıt in a GIS fi	9				Informat	ion calcu	Information calculated by EnSym
Zone	Туре	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition	Polygon Extent	Extent without overlap	SBV	HI	Habitat units	Offset type
1-63	Scattered Tree	muf_0803	Endangered	0	no	0.200	0.031	0.012	0.820		0.003	General
1-66	Scattered Tree	muf_0803	Endangered	0	no	0.200	0.031	0.031	0.610		0.007	General
1-67	Scattered Tree	muf_0803	Endangered	0	no	0.200	0.031	0.031	0.809		0.008	General
1-68	Scattered Tree	muf_0803	Endangered	0	no	0.200	0.031	0.022	0.637		0.005	General
1-69	Scattered Tree	muf_0803	Endangered	0	no	0.200	0.031	0.012	0.610		0.003	General
1-71	Scattered Tree	muf_0803	Endangered	0	no	0.200	0.031	0.027	0.820		0.007	General
1-5	Scattered Tree	muf_0803	Endangered	~	no	0.200	0.070	0.070	0.650		0.017	General
1-8	Scattered Tree	muf_0814	Depleted	0	no	0.200	0.031	0.024	0.650		900.0	General
1-9	Scattered Tree	muf_0814	Depleted	0	no	0.200	0.031	0.024	0.650		900.0	General
4- 4	Patch	muf_0814	Depleted	0	OU	0.160	0.019	0.019	0.630		0.004	General
<del>-</del>	Patch	muf_0803	Endangered	0	ou	0.190	0.068	0.068	0.820		0.018	General
<del>1</del>	Patch	muf_0803	Endangered	0	OU	0.260	0.283	0.283	0.820		0.100	General
<del>-</del>	Patch	muf_0803	Endangered	0	ou	0.270	1.512	1.512	0.724		0.528	General
1-G	Patch	muf_0803	Endangered	0	OU	0.250	0.354	0.354	0.620		0.108	General
† †	Patch	muf_0803	Endangered	0	OU	0.300	0.015	0.015	0.820		900.0	General
1-H	Patch	muf_0803	Endangered	0	ou	0.300	0.022	0.022	0.820		600.0	General
<del>1</del>	Patch	muf_0814	Endangered	2	ou	0.460	0.072	0.072	0.820		0.045	General
1-C1	Patch	muf_0814	Endangered	~	OU	0.460	0.024	0.024	0.630		0.013	General

Information calculated by EnSym	Offset type	General	General	General	General	General	General	General	General	General	General
tion calcu	Habitat units	0.039	0.019	0.012	900.0	900.0	0.005	0.005	900.0	0.007	900.0
Informa	HI										
	SBV	0.677	0.820	0.630	0.630	0.707	0.636	0.820	0.820	0.820	0.820
	Extent without overlap	0.107	0.070	0.047	0.025	0.023	0.021	0.019	0.022	0.026	0.022
	Polygon Extent	0.107	0.070	0.070	0.031	0.031	0.031	0.031	0.031	0.031	0.031
<u>o</u>	Condition score	0.290	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200	0.200
nt in a GIS fi	Partial removal	no	no	no	no	no	OU	no	no	no	OU
e applica	Large tree(s)	0	_	_	0	0	0	0	0	0	0
Information provided by or on behalf of the applicant in a GIS file	BioEVC conservation status	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered
ion provided by	BioEVC	muf_0814	muf_0814	muf_0814	muf_0814	muf_0814	muf_0814	muf_0814	muf_0814	muf_0814	muf_0814
Informat	Туре	Patch	Scattered Tree								
	Zone	1-B	1-	1- 328	1- 354	1- 327	1- 326	1- 325	1-	1- 324	1-

Appendix 2: Information about impacts to rare or threatened species' habitats on site

This table lists all rare or threatened species' habitats mapped at the site.

Species common name	Species scientific name	Species number	Conservation status	Group	Habitat impacted	% habitat value affected
Small-leaf Bluebush	Maireana microphylla	503865	Endangered	Dispersed	Habitat importance map	0.0011
Yarran Wattle	Acacia omalophylla	500069	Endangered	Dispersed	Habitat importance map	0.0004
Superb Parrot	Polytelis swainsonii	10277	Endangered	Dispersed	Habitat importance map	0.0003
Silky Umbrella-grass	Digitaria ammophila	501041	Vulnerable	Dispersed	Habitat importance map	0.0002
Jericho Wire-grass	Aristida jerichoensis var. subspinulifera	504631	Endangered	Dispersed	Habitat importance map	0.0002
Pepper Grass	Panicum laevinode	504808	Vulnerable	Dispersed	Habitat importance map	0.0001
Bent-leaf Wattle	Acacia flexifolia	500035	Rare	Dispersed	Habitat importance map	0.0001
Yellow-tongue Daisy	Brachyscome chrysoglossa	503654	Vulnerable	Dispersed	Habitat importance map	0.0001
Squirrel Glider	Petaurus norfolcensis	11137	Endangered	Dispersed	Habitat importance map	0.0001
Riverina Bitter-cress	Cardamine moirensis	505032	Rare	Dispersed	Habitat importance map	0.0001
Blue Burr-daisy	Calotis cuneifolia	500594	Rare	Dispersed	Habitat importance map	0.0001
Grey-crowned Babbler	Pomatostomus temporalis temporalis	10443	Endangered	Dispersed	Habitat importance map	0.0001
Northern Sandalwood	Santalum lanceolatum	503005	Endangered	Dispersed	Habitat importance map	0.0001
Umbrella Grass	Digitaria divaricatissima var. divaricatissima	501045	Vulnerable	Dispersed	Habitat importance map	0.0001
Silky Swainson-pea	Swainsona sericea	504946	Vulnerable	Dispersed	Habitat importance map	0.0001
Brolga	Grus rubicunda	10177	Vulnerable	Dispersed	Habitat importance map	0.0001
Dwarf Bitter-cress	Rorippa eustylis	502944	Rare	Dispersed	Habitat importance map	0.0001
Broom Bitter-pea	Daviesia genistifolia s.s.	503813	Rare	Dispersed	Habitat importance map	0.0001

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Smooth Minuria  Long Eryngium  Eryngium paludosum  Bark Wire-grass  Southern Swainson-pea  Southern Swainson-pea  Swainsona behriana  Brachyscome gracilis  Kamarooka Mallee  Eucalyptus froggattii  Woolly Wattle  Acacia lanigera var. lanigera	errima udosum ar. calycina shriana	502201	Rare	Dispersed	Hahitat importance man	7000 0
	udosum ar. calycina shriana					000:0
	ar. calycina ehriana	501238	Vulnerable	Dispersed	Habitat importance map	0.0001
	ehriana	503630	Rare	Dispersed	Habitat importance map	0.0001
		504944	Rare	Dispersed	Habitat importance map	0.0001
	gracilis	505494	Vulnerable	Dispersed	Habitat importance map	0.0001
	oggattii	501279	Rare	Dispersed	Habitat importance map	0.0001
	ar. Ianigera	505093	Rare	Dispersed	Habitat importance map	0.0001
Small Scurf-pea Cullen parvum	vum	502773	Endangered	Dispersed	Habitat importance map	0.0001
Bush Stone-curlew Burhinus grallarius	llarius	10174	Endangered	Dispersed	Habitat importance map	0.0001
Grevillea Grevillea rosmarinifolia subsp.	ifolia subsp. Olia	504066	Rare	Dispersed	Habitat importance map	0.0001
Late-flower Flax-lily Dianella tarda	ırda	505085	Vulnerable	Dispersed	Habitat importance map	0.0001
Western Silver Wattle	cora	500027	Vulnerable	Dispersed	Habitat importance map	0.0001
Slender Club-sedge Isolepis congrua	ıgrua	501773	Vulnerable	Dispersed	Habitat importance map	0.0000
Purple Diuris Diuris punctata	stata	501084	Vulnerable	Dispersed	Habitat importance map	0.0000
Fuzzy New Holland Daisy Vittadinia cuneata var. morrisii	var. morrisii	505060	Rare	Dispersed	Habitat importance map	0.0000
Cottony Cassinia Cassinia ozothamnoides	amnoides	501560	Vulnerable	Dispersed	Habitat importance map	0.0000
Senecio cunninghamii var. cunninghamii	ıhamii var. amii	503104	Rare	Dispersed	Habitat importance map	0.0000
Veiled Fringe-sedge Fimbristylis velata	velata	501369	Rare	Dispersed	Habitat importance map	0.0000
Ausfeld's Wattle	feldii	500013	Vulnerable	Dispersed	Habitat importance map	0.0000
Dwarf Brooklime Gratiola pumilo	milo	503753	Rare	Dispersed	Habitat importance map	0.0000
Waterbush Myoporum montanum	intanum	502240	Rare	Dispersed	Habitat importance map	0.0000
Hairy Tails Ptilotus erubescens	scens	502825	Vulnerable	Dispersed	Habitat importance map	0.0000

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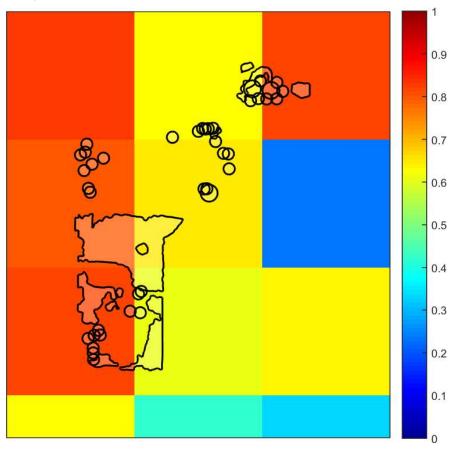
Rye Beetle-grass	Tripogon Ioliiformis	503455	Rare	Dispersed	Habitat importance map	0.0000
Lanky Buttons	Leptorhynchos elongatus	501941	Endangered	Dispersed	Habitat importance map	0.0000
Painted Honeyeater	Grantiella picta	10598	Vulnerable	Dispersed	Habitat importance map	0.0000
Buloke Mistletoe	Amyema linophylla subsp. orientalis	500217	Vulnerable	Dispersed	Habitat importance map	0.0000
Floodplain Fireweed	Senecio campylocarpus	507136	Rare	Dispersed	Habitat importance map	0.0000
Barking Owl	Ninox connivens connivens	10246	Endangered	Dispersed	Habitat importance map	0.0000
Black Falcon	Falco subniger	10238	Vulnerable	Dispersed	Habitat importance map	0.0000
Buloke	Allocasuarina luehmannii	500678	Endangered	Dispersed	Habitat importance map	0.0000
Bearded Dragon	Pogona barbata	12177	Vulnerable	Dispersed	Habitat importance map	0.0000
Delicate Crane's-bill	Geranium sp. 6	505347	Vulnerable	Dispersed	Habitat importance map	0.0000
Yellow Burr-daisy	Calotis lappulacea	500598	Rare	Dispersed	Habitat importance map	0.0000
Regent Honeyeater	Anthochaera phrygia	10603	Critically endangered	Dispersed	Habitat importance map	0.0000
Lewin's Rail	Lewinia pectoralis pectoralis	10045	Vulnerable	Dispersed	Habitat importance map	0.0000
Swift Parrot	Lathamus discolor	10309	Endangered	Dispersed	Habitat importance map	0.0000
Grey Grass-tree	Xanthorrhoea glauca subsp. angustifolia	507229	Endangered	Dispersed	Habitat importance map	0.0000
Lace Monitor	Varanus varius	12283	Endangered	Dispersed	Habitat importance map	0.0000
Square-tailed Kite	Lophoictinia isura	10230	Vulnerable	Dispersed	Habitat importance map	0.0000
Growling Grass Frog	Litoria raniformis	13207	Endangered	Dispersed	Habitat importance map	0.0000
Small Burr-grass	Tragus australianus	503418	Rare	Dispersed	Habitat importance map	0.0000
White-throated Needletail	Hirundapus caudacutus	10334	Vulnerable	Dispersed	Habitat importance map	0.0000

- Habitat group
  Highly localised habitat means there is 2000 hectares or less mapped habitat for the species
  Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species

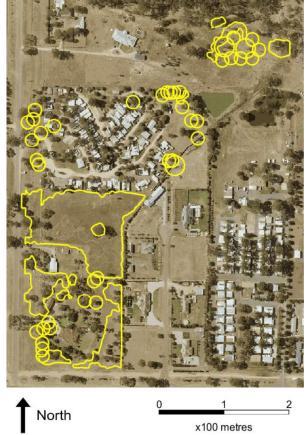
Habitat impactedHabitat importance maps are the maps defined in the Guidelines that include all the mapped habitat for a rare or threatened species

- Top ranking maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat, developed from the highest habitat importance scores in dispersed species habitat maps and selected VBA records
  Selected VBA record is an area in Victoria that represents a large population, roosting or breeding site etc.

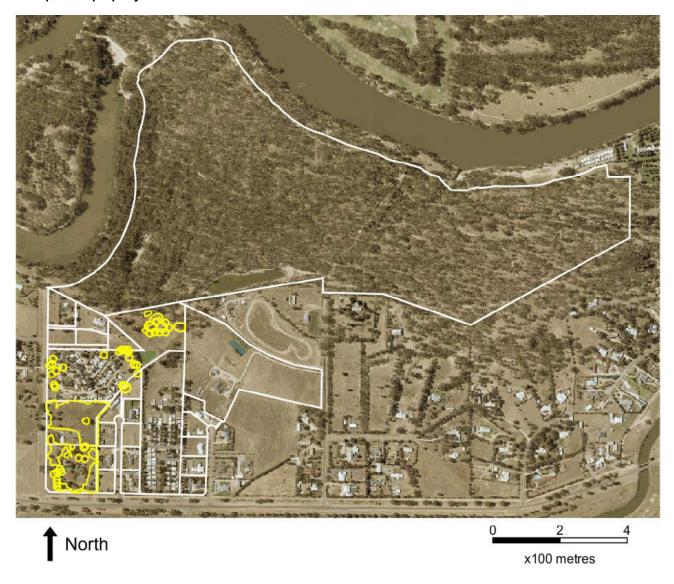
# Appendix 3 — Images of mapped native vegetation 2. Strategic biodiversity values map



3. Aerial photograph showing mapped native vegetation



### 4. Map of the property in context



Yellow boundaries denote areas of proposed native vegetation removal.

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Appendix 6: Evidence that native vegetation offset requirement is available





This report lists native vegetation credits available to purchase through the Native Vegetation Credit Register.

This report is **not evidence** that an offset has been secured. An offset is only secured when the units have been purchased and allocated to a permit or other approval and an allocated credit extract is provided by the Native Vegetation Credit Register.

Date and time: 05/10/2023 05:30 Report ID: 21197

### What was searched for?

### General offset

General habitat units	Strategic biodiversity value	Large trees	Vicinity (	Catchment Management Authority or Municipal district)
1.137	0.581	6	СМА	Goulburn Broken
			or LGA	Moira Shire

### Details of available native vegetation credits on 05 October 2023 05:30

### These sites meet your requirements for general offsets.

Credit Site ID	GHU	LT	СМА	LGA	Land owner	Trader	Fixed price	Broker(s)
VC_CFL- 2355_03	8.839	90	Goulburn Broken	Greater Shepparton City	Yes	Yes	No	VegLink
VC_CFL- 3790_01	5.120	65	Goulburn Broken	Campaspe Shire	Yes	Yes	No	VegLink

### These sites meet your requirements using alternative arrangements for general offsets.

Credit Site ID	GHU	LT CMA	LGA	Land	Trader	Fixed	Broker(s)
				owner		price	

There are no sites listed in the Native Vegetation Credit Register that meet your offset requirements when applying the alternative arrangements as listed in section 11.2 of the Guidelines for the removal, destruction or lopping of native vegetation.

# These potential sites are not yet available, land owners may finalise them once a buyer is confirmed.

Credit Site ID	GHU	LT	СМА	LGA	Land owner	Trader	Fixed price	Broker(s)
VC_CFL- 3701_01	10.574	18	Goulburn Broken, North Central	Greater Bendigo City	Yes	Yes	No	Bio Offsets
VC_CFL- 3747_01	9.714	266	Goulburn Broken	Mansfield Shire	Yes	Yes	No	VegLink

### **Next steps**

### If applying for approval to remove native vegetation

Attach this report to an application to remove native vegetation as evidence that your offset requirement is currently available.

### If you have approval to remove native vegetation

Below are the contact details for all brokers. Contact the broker(s) listed for the credit site(s) that meet your offset requirements. These are shown in the above tables. If more than one broker or site is listed, you should get more than one quote before deciding which offset to secure.

### **Broker contact details**

Broker Name	Phone	Email	Website
Abzeco Pty. Ltd.	(03) 9431 5444	offsets@abzeco.com.au	www.abzeco.com.au
Baw Baw Shire Council	(03) 5624 2411	bawbaw@bawbawshire.vic.gov.au	www.bawbawshire.vic.gov.au
Biodiversity Offsets Victoria	0452 161 013	info@offsetsvictoria.com.au	www.offsetsvictoria.com.au
Native Vegetation Offset Register	136 186	nativevegetation.offsetregister@d elwp.vic.gov.au	www.environment.vic.gov.au/nativ e-vegetation
Ecocentric Environmental Consulting	0410 564 139	ecocentric@me.com	Not avaliable
Ethos NRM Pty Ltd	(03) 5153 0037	offsets@ethosnrm.com.au	www.ethosnrm.com.au
Nillumbik Shire Council	(03) 9433 3316	offsets@nillumbik.vic.gov.au	www.nillumbik.vic.gov.au
Trust for Nature	8631 5888	offsets@tfn.org.au	www.trustfornature.org.au
Vegetation Link Pty Ltd	(03) 8578 4250 or 1300 834 546	offsets@vegetationlink.com.au	www.vegetationlink.com.au
Yarra Ranges Shire Council	1300 368 333	biodiversityoffsets@yarraranges.vi c.gov.au	www.yarraranges.vic.gov.au
	Abzeco Pty. Ltd.  Baw Baw Shire Council  Biodiversity Offsets Victoria  Native Vegetation Offset Register  Ecocentric Environmental Consulting  Ethos NRM Pty Ltd  Nillumbik Shire Council  Trust for Nature  Vegetation Link Pty Ltd	Abzeco Pty. Ltd. (03) 9431 5444  Baw Baw Shire Council (03) 5624 2411  Biodiversity Offsets Victoria 0452 161 013  Native Vegetation Offset Register  Ecocentric Environmental Consulting  Ethos NRM Pty Ltd (03) 5153 0037  Nillumbik Shire Council (03) 9433 3316  Trust for Nature 8631 5888  Vegetation Link Pty Ltd (03) 8578 4250 or	Abzeco Pty. Ltd. (03) 9431 5444 offsets@abzeco.com.au  Baw Baw Shire Council (03) 5624 2411 bawbaw@bawbawshire.vic.gov.au  Biodiversity Offsets Victoria 0452 161 013 info@offsetsvictoria.com.au  Native Vegetation Offset Register 136 186 nativevegetation.offsetregister@delwp.vic.gov.au  Ecocentric Environmental Consulting  Ethos NRM Pty Ltd (03) 5153 0037 offsets@ethosnrm.com.au  Nillumbik Shire Council (03) 9433 3316 offsets@nillumbik.vic.gov.au  Trust for Nature 8631 5888 offsets@tfn.org.au  Vegetation Link Pty Ltd (03) 8578 4250 or 1300 834 546  Yarra Ranges Shire Council 1300 368 333 biodiversityoffsets@yarraranges.vi

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For more information contact the DEECA Customer Service Centre 136 186 or the Native Vegetation Credit Register at nativevegetation.offsetregister@delwp.vic.gov.au

### Disclaime

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Obtaining this publication does not guarantee that the credits shown will be available in the Native Vegetation Credit Register either now or at a later time when a purchase of native vegetation credits is planned.

Notwithstanding anything else contained in this publication, you must ensure that you comply with all relevant laws, legislation, awards or orders and that you obtain and comply with all permits, approvals and the like that affect, are applicable or are necessary to undertake any action to remove, lop or destroy or otherwise deal with any native vegetation or that apply to matters within the scope of Clauses 52.16 or 52.17 of the Victoria Planning Provisions and Victorian planning schemes