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DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 1 of 221 SIGNED:

AMENDED DEVELOPMENT PLAN

75 Willowbank Road Gisborne Macedon Range Shire Council, Vic



55 070 683 037

Planning Submission

Amendment to Gisborne Development Plan 4A 75 Willowbank Road, Gisborne

PREPARED FOR SAM AND ANGELA GIUDICE

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Calibre Professional Services Pty Ltd Authorised Officer: Jack Wilts Page: 2 of 221 SIGNED:

21-000227-002-R (DP)-AU-EL | 21 December 2021

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1 Snapshot

Table 1: Application Details

Application Details				
Applicant	Sam and Angela Giudice			
Subject Land	Lot 4 on LP98445			
Subject Address	75 Willowbank Road Gisborne VIC 3437			
Municipality	Macedon Ranges			
Proposal Amendment to Gisborne Development Plan 4A				
Zone	General Residential Zone – Schedule 1			
Overlay	Development Contributions Overlay – Schedule 2			
	Development Plan Overlay – Schedule 4			
Permit Triggers	Pursuant to Clause 43.04-2, a permit must not be granted to use or subdivide land, construct or carry out works until a development plan has been prepared to the satisfaction of the responsible authority.			
	A permitted granted must be generally in accordance with the development plan.			
Aboriginal Cultural Heritage	At the time of this application, the site is not located within an area of Aboriginal Cultural Heritage Sensitivity. Therefore, no CHMP is required.			
Notice	Yes – Pursuant to Section 4 of Schedule 4 to Clause 43.04, the development plan and any amendment to the plan must be publicly exhibited for a period of two weeks prior to approval.			
Site Area	Development Plan Area: 79.95 ha			
	Subject site area: 5.95ha			

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2 Introduction

Calibre acts on behalf of Sam and Angela Giudice in relation to the submission of this application to amend the existing approved Development Plan

This application seeks approval to amend the Gisborne Development Plan 4A (GDP4A) to allow for the development of the subject site at 75 Willowbank Road Gisborne. The GDP4A covers approximately 80ha of land south of Willowbank Road. The subject site is approximately 6ha and is within the northern section of the GDP4A.

Since the latest endorsed version of the GDP4A (endorsed 16 April 2009), all land within the Development Plan with the exception of the subject site, has been developed. An amendment to the GDP4A is required to reflect the existing conditions and to allow for the orderly development of the subject site.

The land within the GDP4A is governed by the Macedon Ranges Planning Scheme. The land is within the General Residential Zone - Schedule 1 and is affected by the Development Contributions Overlay – Schedule 2 and the Development Plan Overlay – Schedule 4. The amendment to the GDP4A is generally consistent with the requirements of Schedule 4 of the Development Plan Overlay.

The submission introduces the amended Development Plan and provides the supporting analysis that informed the design. This report has been prepared to:

- Describe the subject site, the area within the Gisborne Development Plan 4A, existing conditions and surrounds;
- Outline the nature of the proposed changes;
- Demonstrate compliance with the Planning Policy Framework, Local Planning Policy Framework, the purpose of the General Residential Zone, Overlays and the relevant General Provisions within the Macedon Ranges Planning Scheme;
- Demonstrate compliance with the Gisborne Outlined Development Plan and proposed Gisborne Futures Structure Plan; and
- Provide justification for the proposed amended Development Plan.

In support of the application, we provide the following information:

- Certificate of Title at Appendix A;
- Context Plan prepared by Calibre at Appendix B;
- Endorsed Development Plan (endorsed 16 April 2009) prepared by Hansen at Appendix C;
- Amended Development Plan (context) prepared by Calibre at Appendix D;
- Amended Development Plan (detail) prepared by Calibre at Appendix E;
- Amended Development Plan (staging) prepared by Calibre at Appendix F;
- Proposed Subdivision Concept Plan prepared by Calibre at Appendix G;
- Stormwater Management plan prepared by BCS Engineering at Appendix H.

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3 Subject Site and Surrounds

3.1 Parcel Details

The land within the Gisborne Development Plan 4A area is made up of hundreds of title parcels as most of the site has already been subdivided. The exception to this is the subject site at 75 Willowbank Road Gisborne. The subject site is formally known as Lot 4 on Lodged Plan 98445 (Vol 09019, Fol. 578).

The Certificate of Title for the subject site can be found at Appendix A and an excerpt of the title plan is shown below at **Error!** Reference source not found.



Figure 1: Excerpt of Title Plan



3.2 Subject Site

The subject site at 75 Willowbank Road Gisborne is approximately 5.95ha in area and generally rectangular in shape. The site has a frontage of 120.7m to Willowbank Road to the north. To the east, south and west, the site is surrounded by residential dwellings, also within the General Residential Zone.

The property has access to Willowbank Road to the north via an unsealed crossover and driveway.

Willowbank Road is a sealed road which has a sealed footpath that runs along the site's northern frontage. There are also several other roads which terminate around the site's east, south and west boundaries. These include Vancleve Crescent, Tuxedo Drive and Rothschild Road to the east, Coop Drive to the south and Cherry Ballart Road, Charters Avenue and Vancleve Crescent from the west. Interfaces with these roads and the site are illustrated in the images below.

There is also a local park to the immediate south east of the site abutting the site's south eastern corner. Refer to Error! Reference source not found. below for the aerial photo showing the subject site and immediate surrounds.

There is an existing dwelling in the northern area of the site which has manicured garden areas surrounding it. There is a tennis court to the east of the dwelling. There is a vegetable patch with a shed and netted garden beds to the south west of the dwelling. Beyond the vegetation patch to the south, there is an Olive Grove. Further to the south, there is a fence line which is parallel to the northern and southern site boundaries and creates a large paddock in the southern part of the parcel which is free of buildings and structures and features large cypress trees around the boundaries.

There are two native trees located on the eastern boundary with the existing park. These trees will be retained and form part of the larger open space reserve. In terms of topography, the site is generally flat with a gentle fall towards the north. There is a small waterbody at the site's south east boundary where Rothschild Road terminates at the site's boundary.



MACEDON RANGES PLANNING SCHEME Figure 2: Aerial photo of the subject EVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltsbirg Page: 9 of 221 SIGNED:



Figure 3: Drone footage looking south east

Willowbank Road



Figure 4: Existing crossover and gate off Willowbank Road



Figure 5: Existing internal driveway off Willowbank Road







Figure 6: Existing dwelling and garden from Willowbank Road

Figure 7: Existing gardens west of driveway

Interface with Vancleve Crescent



Figure 8: Vancleve Crescent looking west into the subject site

Figure 9: Vancleve Crescent looking east into the subject site

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Interface with Charters Avenue/Tuxedo Drive



Figure 10: Tuxedo Drive looking west to the subject site



Figure 11: Charters Avenue looking east to the subject site

Interface with Rothschild Road



Figure 12: Rothschild Road looking south east across existing Gisborne Fields Parkland Reserve and into subject site to the west

Figure 13: Rothschild Road looking west into the subject site. The native tree at the end of Rothschild Road will be need to be removed to facilitate the road extension



Interface with Cherry Ballart Road



Figure 14: Existing small waterhole at the end of Rothschild Road which will be filled to facilitate the road extension



Figure 15: Cherry Ballart Road looking east into the subject site

Interface with Coop Drive



Figure 16: Looking north west from Coop Drive to boundary trees

Figure 17: View north across the subject site through gap in trees from Coop Drive Boundary



Existing Gisborne Fields Reserve Parkland



Figure 18: Existing parkland reserve will be expanded through additional open space provided as part of the Development Plan



3.3 Gisborne Development Plan 4A Site Area

The Gisborne Development Plan 4A covers approximately 80 ha of land within Gisborne. The area within the Development Plan is bounded by Willowbank Road to the north, the currently under construction Willow Estate to the east, Brooking Road to the south and Brady Road to the west.

The majority of the land within the Development Plan has been subdivided and developed over the last decade. The subject site at 75 Willowbank Road is the last remaining parcel and represents an excellent infill opportunity to fulfill the development potential of this area.

The land within the GDP4A and all immediately surrounding land is within the General Residential Zone.

To the north of Willowbank Road, subdivision of a number of sites is underway as can be seen in Figure 19. To the east is the Willow Estate, which has approval for the development of +500 residential lots. Works are currently underway for this subdivision which includes the Willowbank Primary School which is scheduled to open in 2022. To the south of the GDP4A area beyond Brooking Road is land zoned Rural Living and is generally used for rural residential living purposes. To the west is land used for residential purposes with the area to the north west being within the General Residential Zone and the area to the south west being within the Low Density Residential Zone.



Figure 19: Gisborne Development Plan 4A Area



3.4 Surrounds

The GDP4A site is located within the south eastern area of the Gisborne Township area and is located approximately 2km from the town centre. Refer to Figure 20 below for an excerpt of the context plan and Appendix B for the plan.

The areas of Gisborne and New Gisborne are experiencing significant growth in population due to demographic changes such as people moving from larger urban areas as well as an increase of rural lifestyle commuters. The increasing population is also a result of the efficient transport networks in the area such as the Bendigo-Melbourne train line, Calder Freeway and Western Ring Road which connect Gisborne to the wider area and allow people to easily travel for work.

Gisborne Township offers residents with services and facilities that meet daily needs including but not limited to Coles, Foodworks, Aldi, health centre, a number of churches, primary and secondary schools, a leisure centre and extensive recreation reserves. The township also has a variety of cafés, restaurants and retail shops.

The Gisborne Train Station, which is located in New Gisborne to the north, is approximately a 10 minute drive from the subject site. There is also an existing bus route which operates along Willowbank Road. There is a bus stop approximately 300m from the site. This bus route provides access to the train station as well as Gisborne and New Gisborne town centres.

Willowbank Early Learning Centre is in the north west corner of the Development Plan area along Willowbank Road. Willowbank Estate Reserve which is a linear green corridor along a waterway is 250m west of the site. Willowbank Primary school is within 500 -600 metres of the site. There are also a number of primary secondary schools further north west of the site and Gisborne Secondary College which is approximately 1.2km of the site.



Figure 20: Site Context Pl

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The surrounding land to the north, east and west is part of the Gisborne Structure Plan and as such, has been subdivided and developed or is proposed to do so in the future. This includes the Willow Estate, which is abutting the development plan area to the east. Works are currently underway for the 500+ lot subdivision and the Willowbank Primary School. There are also works underway to the north for the subdivision into 50+ lots.

3.5 Aboriginal Heritage

The Aboriginal Heritage Regulations 2018 specifies the circumstances in which a Cultural Heritage Management Plan (CHMP) is required for an activity or class of activity. A CHMP is required is a 'high-impact activity' is proposed in an area of Aboriginal Cultural Heritage Sensitivity.

Areas of cultural heritage sensitivity are defined within Division 3 of the *Aboriginal Heritage Regulations 2018*. At the time of this application, the area within the GDP4A is partly covered by a section of Aboriginal Cultural Heritage Sensitivity along the eastern boundary, as shown in Figure 21 below.



Figure 21: Areas of Aboriginal Cultural Heritage Sensitivity

As this amendment to the Development Plan does not include use or works, which would be classified as 'high impact activity' pursuant to Division 2 of the *Aboriginal Heritage Regulations 2018*, a CHMP is not required.

The area which is covered by the Aboriginal Heritage Sensitivity has been developed and will not be impacted by the amendments to the Development Plan. Further to this, the application for the subdivision application of the subject site at 75 Willowbank Road will not trigger a CHMP, as the site does not contain areas of Aboriginal Cultural Heritage Sensitivity.

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4 Proposal

This application proposes an amendment to the latest endorsed Gisborne Development Plan 4A shown in Figure 22 and Figure 23 on the following page.

A number of pre application discussions were held in the lead up to the submission of this Amendment Development Plan.

Comments provided by various Council Departments were taken into account and have been provided for in the proposed plan.

A Key element of this proposal is the proposed open space reserve which will allow for the completion of the existing Gisborne Parkland Reserve. As outlined in pre application discussions, the amended plan provides for 0.59ha of open space to be added to the existing reserve. This provision of open space equates to 9.9% of the site which is over and above the require 5% open space contribution in this area. The additional land is therefore being provided following in principle agreement that Council will purchase the additional land contribution (4.9% of the site area) and compensate the landowner at a rate to be agreed by both parties prior to Certification of the Plan of subdivision.

A description of the proposed amendments to the ODP are provided below:

- The current endorsed Development Plan does not reflect the recent development in the GDP4A area. The area with the GDP4A has now all been developed with the exception of the subject site. This has been reflected in the proposed Development Plan.
- Vancleve Crescent is proposed to continue through the site. However, the two ends of Vancleve Crescent which terminate at the subject site's boundaries have been constructed such that the two roads do not align as intended by the approved Development Plan. The plan has been amended to allow for a slight curve of the road to connect the two road segments.
- Following the pre-application meeting with Council, it was agreed that the existing development plan creates a potential three way traffic conflict at the intersection of Cherry Ballart Road/ Rothschild Road, the new north south road and Coop Drive. In order to address this issue, the plan has been amended to terminate Coop Drive as a Court bowl and provide only pedestrian/bicycle connections from Coop Drive through to Cherry Ballart Road/ Rothschild. This is considered an appropriate design response as Gisborne Fields Parkland Reserve will retain three street frontages as well as the frontage to the proposed court bowl and pedestrian links will provide for a more local community feel to this park as well as continue to provide for safety and surveillance of the park. Consideration was given to terminating the north south road between Cherry Ballart/Rothschild Road and Tuxedo Drive however, it was considered that the leg length for a court bowl was too long and that traffic flow through this area was of greater value to residents moving to and from the Primary school as opposed to Coop Drive which in its current form already functions as a cul de sac.
- Design guidelines will be incorporated into the subdivision application to ensure the dwelling siding on to the park is designed to front the parkland.
- The shape of the open reserve has been adjusted to accommodate the changes to the road layout outlined above. The plan has been amended to reflect the open space size determined between the applicant and Council.
- The lots within the subject site have been added and the areas/ dimensions included on the plan. It is considered that the balance of lot sizes is appropriate for this last remaining parcel within Area 4A. More specifically, much change has occurred since the Development Plan was originally conceived and the site is now within walking distance of the Willowbank Primary School and associated facilities contained therein as well as the childcare centre on Brady Road and small activity centre located at that intersection.

The amendments will allow for the subdivision of the last undeveloped parcel within the GDP4A area. The subdivision of this site will allow for greater connectivity in the area by completing the road connections which currently terminate at the site's boundaries. The proposed road network is in accordance with the relevant standards and the road reserves will allow for landscaping and footpaths to create a landscaped setting for the new development. The road network has also been designed to be legible and safe for pedestrians, cyclists and vehicles alike. The amended Development Plan will also allow for the development of the balance of the public open space in the south of the site. Road access to the open space is also proposed to ensure passive surveillance.

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page 13 Page: 18 of 221 SIGNED: A variety of lot sizes on the subject site have been achieved with the proposed amendment to the plan. In addition, the lots have been designed on a north-south or east-west axis to maximise solar orientation and promote energy efficient housing.

This site contains a small number of native trees along the eastern boundary, most of which will be retained within the area of the extended reserve. One large gum tree exists at the end of Rothschild Road where the road is to be extended. This tree will need to be removed to facilitate the road network. The remaining vegetation on the site is planted. The large cypresses around the boundaries of the site will be removed as each stage of the development is constructed.

There is no change to the vegetation impacts considered on the site when originally approved as a result of the amended Development Plan. A detailed vegetation assessment will be provided as part of the subdivision application in order to identify any required offsets.

The allotments proposed along the Willowbank Road frontage will require an arborist report as part of any future subdivision application to ensure to appropriate siting of crossovers to ensure the protection of the existing large oak trees along this frontage.

A stormwater management plan has been prepared by BCS Consulting and accompanies this application. The plan concludes that the development will meets its stormwater treatment and storage requirements by contributing to the Melbourne Water Central Creek Drainage Scheme. The upstream catchment was analysed to ensure that the roadways can safely convey overland flow during a 1% AEP storm event.

Overall, the amendments to the Development Plan provide for a layout that allows the vision for the area to be achieved in terms of road connectivity and the completion of Gisborne Fields Park while providing for additional housing diversity and land supply within the Township of Gisborne.



Figure 22: Endorsed Development Plan

Figure 23: Proposed Development Plan



5 Planning Context

The areas of policy considered of most relevance to this application are identified in the table below and detailed in the following sections:

Table 2: Planning Provisions, Policies and Controls

Relevant Planning Controls		
Planning Policy Framework	Clause 11 - Settlement	
	Clause 15 - Built Environment and Heritage	
	Clause 16 - Housing	
	Clause 19 - Infrastructure	
Local Planning Policy Framework	Clause 21.03 - Vision - Strategic Framework Plan	
	Clause 21.04 - Settlement	
	Clause 21.09 - Housing	
	Clause 21.12 - Community Development and Infrastructure	
	Clause 21.13 - Local Areas and Small Settlements	
Zone	General Residential Zone	
Overlays	Development Contributions Plan Overlay – Schedule 2	
	Development Plan Overlay – Schedule 4	
General Provisions	Clause 65 - Decision Guidelines	

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5.1 Planning Policy Framework (PPF)

Clause 11 - Settlement

This clause seeks to plan for and respond to the existing and future needs of communities through providing zoned land that is appropriately serviced, accessible and environmentally sustainable.

This clause seeks, amongst other things, to promote the sustainable growth and development (**Clause 11.01-1S Settlement**) and to ensure a sufficient supply of land is available, including for residential purposes (**Clause 11.02-1S Supply of urban land**). As such, new subdivision or development must recognise these features and avoid undermining the long-term natural or non-urban use of land in these areas. Strategies to achieve these include (From **Clause 11.01-1S Settlement**):

- Develop sustainable communities through a settlement offering convenient access to jobs, services, infrastructure and community facilities.
- Encourage a form and density of settlements that supports sustainable transport to reduce greenhouse gas emissions.
- Limit urban sprawl and direct growth into existing settlements.
- Promote and capitalise on opportunities for urban renewal and infill redevelopment.
- Build on strengths and capabilities of each region across Victoria to respond sustainably to population growth and changing environments.
- Develop compact urban areas that are based around existing or planned activity centres to maximise accessibility to facilities and services.
- Consider the distinctive characteristics and needs of regional and local places in planning for future land use and development (Clause 11.03-6S Regional and local places).

RESPONSE:

The GDP4A area is within the Gisborne town boundary and is identified for infill development under the Gisborne Outline Development Plan. As such, the development of the GDP4A is appropriate and strategically justified.

The development of the subject site at 75 Willowbank Road will support Clause 11 as it will meet the purpose of the Development Plan Overlay to ensure development is carried out in a planned and orderly manner. This infill development will help to limit urban sprawl and direct growth into the existing township area that has access to existing services, transport options and community facilities.

Clause 15 - Built Environment and Heritage

Planning plays a key role in delivering liveable and sustainable cities, towns and neighbourhoods. Planning should ensure all land use and development appropriately responds to its surrounding landscape and character, valued built form and cultural context.

In particular, **Clause 15.01-3S Subdivision design** has the objective to ensure the design of subdivisions achieves attractive, safe, accessible, diverse and sustainable neighbourhoods. There are a number of strategies within this clause that relate to the proposal, which are:

- Creating compact neighbourhoods that have walkable distances between activities.
- Providing a range of lot sizes to suit a variety of dwelling and household types to meet the needs and aspirations of different groups of people.
- Being accessible to people with disabilities.
- Facilitating an urban structure where neighbourhoods are clustered to support larger activity centres served by high quality public transport.
- Reducing car dependency by allowing for:
 - Convenient and safe public transport.
 - Subdivision layouts that allow easy movement between neighbourhoods.
 - Convenient and safe road network

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 21 of 221 SIGNED: • Creating an urban structure and providing utilities and services that enable energy efficiency, resource conservation, integrated water management and minimisation of waste and air pollution.

Another relevant policy is **Clause 15.01-5S Neighbourhood character** which has the objective to recognise, support and protect neighbourhood character, cultural identify and a sense of place. There are a number of strategies within this clause that relate to the proposal. These are:

- Support development that respects the existing neighbourhood character or contributes to a preferred neighbourhood character.
- Ensure development responds to its context and reinforces a sense of place and the valued features and characteristics of the local environment and place by respecting the:
 - > Pattern of local urban structure and subdivision.
 - o Underlying natural landscape character and significant vegetation.
 - o Neighbourhood character values and built form that reflect community identity.

RESPONSE:

The amendments to the Development Plan are relatively minor in nature given that most of the area within the GDP4A has already been developed. The proposed amendments are solely in relation to the subject site at 75 Willowbank Road.

The amendments are required to rectify the road connections immediately surrounding the subject site which are no longer in alignment and are proposed to go through the site. The revised Development Plan is seeking to correct this. This will achieve greater functionality and accessibility around the subject site and the wider area. As such, the proposed amendments will allow for a more cohesive network which allows pedestrians and vehicles alike to easily move through the site. There are also other minor amendments to the plan which have been done to facilitate a better urban design outcome and neighbourhood character.

Clause 16 - Housing

The purpose of this clause is to:

- Provide for housing diversity and ensure the efficient provision of supporting infrastructure.
- Ensure the long term sustainability of new housing, including access to services, walkability to activity centres, public transport, schools and open space.
- Inclusion of the provision of land for affordable housing.

The objective under **Clause 16.01-1S Housing supply** reiterates the need to provide for diverse housing which is integrated and well-located and that offers choice for future residents and meets the community's needs. This objective is achieved by ensuring there are opportunities for a range of income groups to choose housing in well-serviced locations and to ensure that an appropriate quantity, quality and type of housing is provided.

RESPONSE:

As noted previously, all of the area, apart from the subject site, within the GDP4A has been developed since the latest Development Plan was endorsed. The amendments to the Development Plan solely relate to the subject site. As such, the changes respond to Clause 16 as it will allow for the subject site to be developed which will provide a variety of lots and will build upon the existing housing stock in the area.

Clause 19 - Infrastructure

Clause 19 has the objective to plan for development of social and physical infrastructure which should be provided in a way that is efficient, equitable, accessible and timely. Of particular relevance is **Clause 19.02-6S Open Space** which has the objective to establish, manage and improve a diverse and integrated network of public open space that meets the needs of the community.

RESPONSE:

Infrastructure for the majority of the GDP4A area has already been provided. In respect to the subject site, the Gisborne Outline Development Plan and Gisborne Futures Project both propose passive open space which is partly within the subject site.

The amended Development Plan is generally in accordance with the Gisborne space has been provided.	MACEDON RANGES PLANNING SCHEME Outline Development Plan and the required open DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023
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5.2 Local Planning Policy Framework (LPPF)

Clause 21.03 - Vision – Strategic Framework Plan

Clause 21.03 contains the Macedon Ranges Strategic Framework Plan which interprets the land use vision for the Macedon Ranges Shire. The clause states that land use planning should be guided by:

- Development that occurs in an orderly and sustainable manner, maintaining clear distinctions and separations between settlements.
- A diverse range of residential and commercial opportunities are provided in appropriate locations, including appropriately zoned and serviced land to meet the needs of the Shire's changing demographic.
- Growth is generally directed to the transport corridors, in-line with infrastructure provision and cognisant of constraints.

RESPONSE:

The proposed amendments to the Development Plan will allow the final parcel under the GDP4A area, being the site at 75 Willowbank Road, to be developed. This will result in a greater cohesion within the area in terms of connectivity and reduces fragmentation between the developed and undeveloped land.

Clause 21.04 - Settlement

This clause seeks to manage settlement growth in the Shire, noting that it is influenced by many factors, particularly regional transport corridor improvements, bushfire risk, community infrastructure and the potential for residents to commute to metropolitan Melbourne while living in an attractive rural/semi-rural environment.

The relevant strategies under Clause 21.04 include:

- Encourage the development of Gisborne and Kyneton as regional centres by facilitating the provision of a large, diverse, employment and housing base in both centres and for their provision of higher order goods and services.
- Ensure development is consistent with the capacity of settlements to grow and plan for growth on the following basis:
 - Focus development on and consolidate the roles of the key towns of Gisborne and Kyneton which have the highest levels of infrastructure, services and employment.
- Guide development to settlements where existing environmental assets will not be jeopardised.

RESPONSE:

The proposed amendments are in accordance with Clause 21.04 which seeks to encourage the development of Gisborne. The amendments to the plan will allow for new dwellings to be developed in close proximity to existing services and amenities which will provide additional lifestyle opportunities for a wide range of future residents.

Clause 21.09 - Housing

Clause 21.09 provides local content to support Clause 16 of the Planning Policy Framework that states, planning should provide for housing diversity and ensure the efficient provision of supporting infrastructure.

Objective 1 of Clause 21.09 seeks to provide for responsive and affordable housing and a diversity of lot sizes and styles to meet the requirements of all age groups, household types, lifestyles and preference.

The strategies that are most relevant to this proposal are:

- 1.1 Encourage a diversity of housing in appropriate locations.
- 1.7 Encourage the provision of a range of lot sizes in plans for new development.

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RESPONSE:

The proposed amendments to the GDP4A supports Clause 21.09 and will allow for the development of additional dwellings in the area to meet the growing population pressures on the Gisborne township area. The GDP4A area is also suitably located to accommodate additional dwellings, as it is within close proximity of the town centre, train station and existing community facilities and services.

Clause 21.12 - Community Development and Infrastructure

Clause 21.12 aims to guide appropriately designed developments to provide the ability to strengthen community connections through the provision of linking pathways between residential developments and public facilities and spaces, and by creating public spaces for use by people of all ages and abilities.

The relevant objectives are:

- To improve the physical health of the community by providing safe, attractive, useable, well maintained public spaces that encourage active lifestyles for people of all ages and abilities.
- To improve accessibility to and the use of public spaces, public premises and resources.

RESPONSE:

The amendments to the Development Plan support Clause 21.12 as an area of passive open space will be provided within the subject site. Furthermore, the proposed road connections will improve the connectivity across the overall site. This will ensure that the area is safer for vehicles and pedestrians alike. The amended plan will also allow for the development of the remaining public open space, that will be accessible for residents.

Clause 21.13-1 - Gisborne and New Gisborne

Clause 21.13-1 contains town specific information that guides the use and development for Gisborne. Gisborne and New Gisborne currently serve the role of a large district town and form the major urban centre in the southern end of the Shire and are located within the Melbourne-Bendigo regional fast rail corridor. Gisborne and New Gisborne are expected to grow from a large district town to a regional centre by 2036.

The key elements of Gisborne and New Gisborne's character are as follows:

- Rural environment with high quality landscapes.
- Significant views of prominent landforms.
- Natural environmental assets including Gisborne Racecourse Marshlands Reserve, Jacksons Creek, Mount Gisborne, Magnet Hill and remnant vegetation.
- Distinctive village characters.
- Valley setting of Gisborne's historic township area.
- Heritage buildings and streetscapes.
- Exotic trees in the Gisborne town centre, Station Road, New Gisborne and within established residential areas.
- Network of open space areas focusing on Jacksons Creek corridor.
- Diverse residential precincts.
- Semi-rural character and attractive living environments.

There are key objectives which include containing urban development within the defined township boundary as indicated on the Gisborne/New Gisborne Framework plan.

The subject land sits within the existing growth area west of Gisborne where short to medium growth is encouraged.

Under Objective 5 of the identified Settlement and Housing objectives includes at 1.9, the objective to Provide a range of conventional residential development opportunities and densities in other residential areas that is cognisant of the semi-rural character and village setting of Gisborne / New Gisborne. Within the context of Gisborne and New Gisborne conventional residential development includes lots ranging between 500-1,500 square metres in area (with an average lot size not less than 800 square metres in any new subdivision) and at 1.10, to encourage wide lot frontages in residential developments to provide space between buildings and a high quality landscaped setting for new development **RANGES PLANNING SCHEME**

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RESPONSE:

The proposal accords with the above objectives and strategies as the proposed lot sizes are in accordance with the character of the surrounding area within the General Residential Zone.

The proposed amendments to the Development Plan retain and respect the key elements that contribute to Gisborne's character as outlined in Clause 21.13 -1. The existing conditions and assets on site have been taken into account in the proposed layout of the subject site. The existing dwelling and the surrounding gardens which feature a number of planted trees and garden areas are to be retained. The amendment will also allow for roads connections through the site which will increase accessibility in the area and will contribute to the overall character of the area.

The amended development plan provides for a total of 50 lots on the subject land with an average lot size of 857sqm.

A variety of lot sizes are proposed with the majority of lots within the conventional lot range sought by Clause 21.13-1. There are 10 lots that are slightly less than 500sqm. There are no lots proposed under 400sqm.

The lot distribution is as follows:

- 34 lots less than 800sqm;
- 8 lots between 800sqm and 999sqm and
- 8 lots less than 1000sqm.

Lot frontage widths also vary between 20 metres and 12.5 metres.

The lot distribution is in keeping with recent approvals including the Willow Development to the east.

5.3 Zoning

The land within the GDP4A is zoned General Residential (Clause 32.08) – Schedule 1 of the Macedon Ranges Planning Scheme as shown below in Figure 24.



Figure 24: Zoning Plan

The purpose of the General Residential Zone (GRZ) is:

- To implement the Municipal Planning Strategy and the Planning Policy Framework.
- To encourage development that respects the neighbourhood character of the area.
- To encourage a diversity of housing types and housing growth particularly in locations offering good access to services and transport.
- To allow educational, recreational, religious, community and a limited range of other non-residential uses to serve local community needs in appropriate locations.

RESPONSE:

The proposed layout is consistent with the purpose of the zone, surrounding lots and the existing character of the area. The proposed amendments respond to the site conditions, the local context and align with the Municipal Planning Strategy and the Planning Policy Framework.

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5.4 Overlays

Clause 43.04 Development Plan Overlay

The majority of the GDP4A area is affected by the Development Plan Overlay – Schedule 4, apart from a small section in the north west corner, as shown in Figure 25 below.



Figure 25: Development Plan Overlay Area

The purpose of Clause 43.04 is:

- To implement the Municipal Planning Strategy and the Planning Policy Framework.
- To identify areas which require the form and conditions of future use and development to be shown on a development plan before a permit can be granted to use or develop the land.
- To exempt an application from notice and review if a development plan has been prepared to the satisfaction of the responsible authority.

Pursuant to Clause 43.04-2, a permit must not be granted to use or subdivide land, construct a building or construct or carry out works until a development plan has been prepared to the satisfaction of the responsible authority.

A permit granted must:

- Be generally in accordance with the development plan.
- Include any conditions or requirements specified in a schedule to this overlay.

Schedule 4 of the Development Plan Overlay applies to the site. The schedule stipulates that any development plan that is prepared should implement the following 'key principles':

 Encouraging housing choice and the development of a variety of lot sizes and types within the context of a semi-rural township.

•	Establishing open space networks that provide both pedestrian and c	MAGEDON/RANGES RLANDING/SCHEME
	and protection of environmental features and drainage functions.	DEVELOPMENT PLAN: DP/2009/12/C
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- Limiting the visual intrusion of development around key township entrances, the Calder Freeway, Jacksons Creek escarpment and Rosslynne Reservoir.
- Protecting areas of remnant indigenous and significant exotic vegetation.
- Recognising and protecting cultural, environmental, landscape and heritage assets.
- Increasing stormwater capture and reuse to reduce water usage and impacts on existing drainage infrastructure.
- Providing for physical and social infrastructure and the orderly staging of development.
- Encouraging current sustainable development principles and high quality urban design.

Pursuant to Section 4 of Schedule 4 to Clause 43.04, the development plan and any amendment to the plan must be publicly exhibited for a period of two weeks prior to approval. The responsible authority must take into account any comments received when considering the development plan or any amendment to the plan.

RESPONSE:

The proposed Development Plan is in accordance with the above key principles. The plan has taken into account the existing conditions and has proposed a variety of lots to accommodate the growing and diverse population in Gisborne.

Pursuant to Schedule 4 of the DPO, the following are requirements for a development plan:

Table 3: Development Plan Overlay Requirements

Development Plan Overlay Requirements		
Requirements	Response	
A development plan must be consistent with the provisions of Clause 21.13-1 of this planning scheme and must have regard to the Gisborne/ New Gisborne Outline Development Plan, Revised Final Report, September 2009.	These matters have been addressed in Sections 5.2 and 6.1 of the report.	
One development plan must be prepared for all of the land shown within a development area as marked on Map 1 within this clause, unless otherwise agreed to by the responsible authority.	The Development Plan complies with this requirement.	
 A development plan must show or include, as appropriate, the following matters to the satisfaction of the responsible authority: A written report detailing how the plan responds to Clause 21.13-1 of this planning scheme and the 'key principles' contained in this schedule. A detailed site analysis of the natural, cultural and strategic context of this site. The proposed subdivision layout which shows: The provision of a variety of lot sizes across the development area. How development interfaces with and relates to environmentally significant and landscape sensitive areas. The transition between the proposed development and low density residential lots and land in rural zones. Consideration of the topography of the land, particularly with regard to the provision of usable open space, site features such as vegetation, significant view lines, waterways and places of cultural beritage significance 	Refer to Section 5.2 for an assessment against 21.13-1. A detailed site analysis has been provided at Section 3. The proposed layout is shown in the proposed amended Development Plan and further discussion of the layout is at Section 4.	
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 Physical infrastructure such as roads and reticulated services (water, sewer, gas and drainage etc.) The use of solar orientation development principles to promote energy efficient housing. 	
 The proposed movement network which: Provides convenient internal and external access / linkages within and between neighbourhoods and key destinations. Allows for the future provision of public transport, including accommodating bus movements and bus stop facilities at strategic locations. Provides attractive, convenient, safe and legible pedestrian and bicycle networks. Provides for wide road verge widths to allow for landscaping, footpaths and create the overall appearance of openness and a landscaped setting for new development. 	The amendments to the Development Plan have allowed for the site to be appropriately developed with connections to the surrounding area. The road network is safe and legible and allows access to the passive open space reserve in the south of the site.
 The proposed public open space network which: Provides links to existing or proposed open space areas. Is fronted by roads or lots, to enhance passive surveillance of the area. Integrates with areas and corridors of habitat significance where possible. Incorporates passive and active recreation opportunities, including shared pedestrian/bicycle paths, urban art and playgrounds. Is not encumbered by any constraints, such as drainage reserves or land slope. Any encumbered open space areas must be provided in addition to an unencumbered public open space contribution of at least 5% of the development plan area. 	The amended Development Plan meets these requirements as it will allow for the timely development of the passive open space which is located partly within the subject site. The passive open space will be connected by the road network within the subject site which will provide connection to the wider area, thus ensuring accessibility to a wide catchment of residents. Native vegetation will be retained within the park area with the exception of one tree which cannot be avoided in order provide for the continuation of Rothschild Road.
 Landscape concept plans for the development that show: How significant view corridors have been considered and protected. Significant vegetation that is to be protected and retained. Public open space landscaping, including landscaping of roads and streets, to create key public spaces, landscape corridors and contribute to Gisborne and New Gisborne's attractive semi-rural environment. Details of the staging and timing of all landscape works. 	A Landscape Concept Plan has not been provided as all the land under the GDP4A has been developed apart from the subject site at 75 Willowbank Road. As such, a Landscape Concept Plan can be addressed as a condition on the future subdivision permit for the subject site.
The location of major drainage lines, water features, proposed retarding basins and floodways, and the means by which they will be managed in accordance with the principles of water sensitive urban design.	N/A There are no major drainage lines or waterways on the site.
The location of major infrastructure easements or installations.	N/A There are no major infrastructure easements or installations.
The stages, if any, by which the land is to be subdivided and developed.	A Staging plan has been provided at Appendix F.
The provision and timing of physical and social infrastructure including retail, community, open space and recreational facilities (where required); clearly demonstrating the ability to provide any	As noted earlier, the passive open space is proposed to be developed with the subdivision of the subject site. The remaining infrastructure within the Subject site. The already betweet open and the subject site. The already betweet open and the subject site. The already betweet open and the subject site. The subject site is a subject site of the subject site. The subject site is a subject site of the subject site. The subject site is a subject site of the subject site. The subject site is a subject site of the subject site. The subject site is a subject site of the subject site of the subject site. The subject site is a subject site of the subject site is a subject site of the subject site of the subject site. The subject site of the subject site of the subject site of the subject site of the subject site. The subject site of the subject site of the subj
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reticulated service or infrastructure item required by the proposed development.	
 Unless agreed upon in writing by the responsible authority, the development plan must include the following information to the satisfaction of the responsible authority: A flora and fauna assessment and where necessary an arboriculture assessment. A cultural heritage assessment A stormwater management plan A traffic assessment and management plan An environmental assessment 	The proposed amendments to the Development Plan does not alter the impacts on flora and fauna as such a further report has not been prepared as part of this proposal. A detailed flora and fauna assessment and aboricultural report will accompany future subdivision applications in order to determine offsets and appropriate setbacks for driveway crossovers etc. As considered in Section 3.5 of this report, the subject site is not within an area of aboriginal cultural heritage. Therefore, a CHMP is not required. A stormwater management plan has been prepared and is provided at Appendix H. Given that the GDP4A site has been largely developed apart from the subject site, it is considered that a traffic assessment and management plan is not required. The amendment is to allow for an infill opportunity of the last undeveloped parcel within the area.
 The following requirements are specific to Development Area 4A: A low density interface to Brooking Road, Brady Road and Willowbank Road. Pedestrian, vehicle and bicycle linkages to Area 4B. A coordinated infrastructure plan and stormwater management plan that incorporates Area 4B and identifies the staging and timing of the provision of infrastructure. 	A low density interface will be provided to Willowbank Road.

The proposed amendments are generally in accordance with the requirements of Schedule 4 to the DPO.

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Clause 45.06 Development Contributions Plan Overlay

The site is wholly contained within the Development Contributions Plan Overlay - Schedule 2 (DCPO2) as shown in Figure 26 below. Schedule 2 implements the Gisborne Development Contributions Plan. The site is within Charge Area 14.



Figure 26: Development Contributions Plan Overlay

RESPONSE

The Development Contribution Rate for Area 14 is \$1,502.73 per residential lot (2013 rates). It is noted that this rate is indexed yearly.

Further discussion on the Gisborne Development Contributions Plan is at Section 6.3. The development of the land within the GDP4A will meet the requirements under the DCPO2.

5.5 General Provisions

Clause 65 - Decision Guidelines state that the Responsible Authority must decide whether the proposal will produce acceptable outcomes in terms of the decision guidelines of this Clause. Specifically, the decision guidelines of Clause 65.02 relate to the approval of an application to subdivide land as appropriate.

The following guidelines have been considered in the application:

Table 4: Response to the Clause 65 Decision Guidelines

Decision Guidelines	Response
Approval of An Application or Plan	
The matters set out in Section 60 of the Act.	These matters have been discussed throughout the body of the report.
The Municipal Planning Strategy and the Planning Policy Framework.	These matters have been dealt with in Section 5.1 and Section 5.2 of this report of the section SCHEI
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The purpose of the zone, overlay or other provision.	These matters have been dealt with in Sections 5.3 and Section 5.4 of this report.
Any matter required to be considered in the zone, overlay or other provision.	As above.
The orderly planning of the area.	The purpose of the Development Plan Overlay is to allow for the orderly and planned development of an area.
	The amendments to the Development Plan will allow for this area to be developed in accordance with the existing character of the area whilst providing for the expanding population of Gisborne.
The effect on the amenity of the area.	The amendments to the Development Plan will positively impact the amenity of the area, as it will allow the public open space in the south east of the subject site to be completed and functional road connections to be formed. This will positively impact the surrounding area.
The proximity of the land to any public land.	The proposed Development Plan proposes a section of public open space to be developed which will complete the existing area of open space in the south east.
	Nearby, there is also the Willowbank Estate Reserve which is a linear open space corridor along the creek to the west of the site.
	Given the above, it considered that the proposed Development Plan will provide a positive contribution to the area by providing the remaining section of the park which will provide future residents with access to additional public open space.
Factors likely to cause or contribute to land degradation, salinity or reduce water quality.	The proposed Development Plan will not negatively degrade the land or reduce the water quality. The lots will be connected to the nearby servicing and therefore, will not contribute to land degradation. This will be further addressed in the subdivision application.
Whether the proposed development is designed to maintain or improve the quality of stormwater within and exiting the site.	As above.
The extent and character of native vegetation and the likelihood of its destruction.	The Development Plan does not identify any vegetation to be removed. This matter will be dealt with in the subdivision application.
Whether native vegetation is to be or can be protected, planted or allowed to regenerate.	As above.
The degree of flood, erosion or fire hazard associated with the location of the land and the use, development or management of the land so as to minimise any such hazard.	The site is not located within the Land Subject to Inundation Overlay or Bushfire Management Overlay.
The adequacy of loading and unloading facilities and any associated amenity, traffic flow and road safety impacts.	N/A

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6 Planning Consideration

The proposed amendment to the Gisborne Development Plan 4A has considered the following strategic plans:

6.1 Gisborne Outline Development Plan

The Gisborne Outline Development Plan was initially adopted by Council in February 2006 and was then amended in September 2009.

The Gisborne Outline Development Plan identifies the land within the GDP4A for residential development with a number of new road connections going through the site and connecting to the wider area. A part of the indicative pedestrian and cycle network is also proposed to run through the subject site (red dotted line in Figure 27 below).



Figure 27: Gisborne Outline Development Plan

Within the GDP4A area, there is a passive open space area in the centre. This is partly within the subject site and the other section has already been developed. There is also a small part of the open space corridor in the north eastern area of the site.

RESPONSE:

The area within the GDP4A, apart from the subject site, has already been developed generally in accordance with the Gisborne Outline Development Plan. The proposed amendments to the Development Plan remain in accordance with the vision and proposed layout of the Gisborne Outline Development Plan.

The following design objectives and design principles within the Gisborne Outline Development Plan have been taken into consideration:

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Design Objectives	Response	
General matters		
To provide a range of residential densities to respond to local circumstances and housing market conditions, and to support the efficient provision of infrastructure and services. Lot sizes and housing types must be responsive to the character of the natural and built environment and the established landscape character in the area and respond to principles of environmental sustainability.	The proposed Development Plan subject site. Notwithstanding, the neighbourhood character and the	allows for flexibility in terms of density across the lots are generally in accordance with the evolved immediately surrounding lots.
To ensure an increase in housing density occurs within the context of the semi-rural character of Gisborne/New Gisborne and view lines to significant landforms (e.g. Mount Gisborne) together with a commensurate increase in the standard of urban design and infrastructure delivery.	As it has been noted throughout t township boundary. The township growth to meet the land supply fo the Development Plan is approp area.	his report, the GDP4A site is within the Gisborne o has been identified as the focus for residential or the next 15 years. As such, the amendment to riate to allow for residential development in this
To provide residential neighbourhoods with attractive streetscapes and a high quality urban design and urban character.	The amendments to the Developr conditions against the latest Dev subject site. The amendments w accessible for residents, but th streetscapes with a better urban	nent Plan are required so as to rectify the existing velopment Plan and to allow for the infill of the vill not only make the area more functional and ne amendments will result in more attractive design outcome.
To ensure that the dwelling, rather than the garage, is the dominant feature of the streetscape.	The lot sizes and widths proposed are of sufficient area to ensure the garages do not become the dominant feature of the streetscape. This objective can be further covered by Design Guidelines to be provided as part of the subdivision application.	
To achieve an appropriate interface with open space, sensitive environmental features and between areas of different densities.	An appropriate interface with the open space has been incorporated into the Development Plan. A frontage road is proposed around the majority of the open space to provide access and ensure passive surveillance. Lots surrounding the open space will also front onto the space to help activate the frontage.	
	The proposed amendments alter the access around the park in order to avoid the three way intersection identified in pre application discussions as a point of concern. The amended plan has been designed to continue Coop Drive as a cul de sac and continue the connection to Cherry Ballart Road as a pedestrian connection alongside the park. The lots abutting the park are in the most part designed to front the park. One lot will side onto the park however design guidelines are proposed to be incorporated through the subdivision application to ensure the dwelling is design to front the park.	
To ensure new development design is cognisant of existing vegetation, including roadside vegetation.	As noted in the earlier sections, this Development Plan seeks to retain the vegetation around the existing dwelling. The proposed roads will also allow for roadside landscaping.	
Design Principles	Response	
Residential Development	The Development Disc provides	for a lavout which will allow for a variate of lat
development within the context of Gisborne/New Gisborne includes lots	sizes.	Tor a layout which will allow for a variety of lot
with sizes generally within the range of 500 sam to 1500 sam (average of at least	The average lot size across the	subject site is 857sqm which is within the range
Soo sym to 1500 sym (average of at least	sought by the ODP.	MACEDON RANGES PLANNING SCH
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Table 5: Response to Gisborne Outline Development Plan Objectives (as applicable)

 800 sqm) and are likely to form a large proportion of new developments. Lot sizes in 'conventional' areas should achieve an overall average lot distribution as per below: Lot size range Distribution 300sqm to 800sqm - 25% - 30% 800sqm to 1000sqm - 30% - 40% 1000sqm to 1500sqm - 35% - 40% 	The lot range distribution differs changed in the area since this doc east of the site which provides for The Willows 300sqm to 800sqm – 86% 800sqm to 1000sqm – 7.4% 1000sqm to 1500sqm – 0.4% This proposal provides the follow 300sqm to 800sqm – 68% 800sqm to 1000sqm – 16% 1000sqm to 1500sqm – 16% It is therefore considered that the as the last remaining piece in the	to that sought by the 2006 ODP and much has cument including the Willows Development to the the following lot distribution: ing lot distribution:
Subdivision Lot Design		
 Lots should be: Generally be rectangular in shape on streets aligned on a north – south or east – west axis to maximise building and energy efficiency; Encourage wider lot frontages to provide space between buildings and encourage a high quality landscaped setting for all new developments; Designed so as to ensure garages are not the dominant front façade element of the house and/or the streetscape. This provision also applies to integrated development sites; Designed to create a sense of street address and streetscape character; Designed to maximise the opportunity for more useable private open space; and Designed to enable the retention of significant vegetation 	As noted above, the Development as to ensure that future lots can Development Plan. These requirements will be addre	nt Plan provides for a layout which is flexible so meet the requirements outlined in the Gisborne assed in the subdivision application.
Public open space design should ensure that an appropriate interface with surrounding development is achieved.	As noted above, an appropriate ir achieved by locating roads for th also front onto the open space to	terface with the open space on the site has been e majority of the open space interface. Lots will ensure passive surveillance.
A variety of styles and types of medium density development are encouraged to further enhance lot diversity	The Development Plan provides for a variety of lots sizes and densities ranging from 405sqm to 1205sqm (excluding the balance lot).	
 Lots with shared driveway access should be designed to ensure: Housing fronts out to both streets and / or public open space; A shared driveway or 'garage court' provides access to garages sited off street to minimise the visual impact of 	Design specifics for dwellings will be dealt with at the planning permit stage. As previously stated, design guidelines will provide direction to ensure dwellings are designed to front the proposed open space. MACEDON RANGES PLANNING SCHEN	
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 Avoid rear lanes that: Provide concealment opportunities; and Are curved, have T-intersections or are longer than 150m. 	No rear lanes are proposed within the Development Plan.
	Figure 28:Cul-de-sac extension to Coop Drive
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 lessens the visual impact on the streetscape; Strong building form along the open space edge provides a backdrop and active interface to open space; and; Wide footpaths are provided along the frontage to ensure an 'address' for dwellings. 	There are two lots to the north of the Coop Drive cul-de-sac which have been designed to ensure each lot in prohibited from gaining dual access to both Cherry Ballart and Coop Drive. The Landscape Plan will provide for landscape strips that prevent the western lot from accessing via Coop Drive, further no access strips will be provided on the Plan of Subdivision that will prevent legal access for this lot to Coop Drive. The Eastern Lot will have a similar landscape and subdivision plan response which will restrict access from Cherry Ballart Road and focus the frontage of the lot to Coop Drive. Further detail can be seen in the plan extract below:
Lots with direct public open space frontage or road/open space frontage with rear access are encouraged and should be designed to ensure: • Rear lane access to garages	Lots fronting the park are separated by the extension of Coop Drive with the exception on one lot which sides on to the park and will be separated by a pedestrian footpath that will link Coop Drive to Cherry Ballart Road. Design Guidelines will provide requirements for this dwelling to front the park and the final landscape plan will include the footpath detail.
 garages on the streetscape; and Private open space is maximised through careful design of the dwelling. 	
6.2 Gisborne Futures Structure Plan

The Gisborne Futures Structure Plan aims to create a sustainable vision for how Gisborne will grow and develop into the future. It is currently in draft stage with the first draft plan released in August 2020 for consultation. Whilst it is acknowledged that this strategic plan is not yet finalised, the overall vision and direction for the site is likely to remain the same, and as such, it is a key strategic document to inform the future development of the site.

The GDP4A area is identified as General Residential Zone with the exception of the subject shite, which is identified as undeveloped existing residential land as shown in Figure 29 below.



Figure 29: Gisborne Futures Plan Residential Land Supply

The area subject to the GDP4A is identified in Precinct 5A (Contemporary Suburban) in the draft Gisborne Futures Draft Neighbourhood Character Study. Precinct 5 is defined by recent subdivision and construction with some areas currently undergoing development and change.

The existing character elements of this precinct include:

- Larger greenfield sites will be developed in accordance with approved developments plans in the short to medium term (0-10 years)
- In most areas, lots are laid out in a regular grid with straight to slightly curving roads, some featuring cul-de-sacs. Future development will have a fine grain patter of subdivision.
- Lot sizes vary between 600sqm to 1000sqm with an average of 800sqm. Smaller lot sizes of 190 to 400sqm are present in the medium density precinct.
- Lot width averages around 18m.
- Hoses are mostly detached on both sides with side setbacks from 1-3m on larger lots, some with garages built to side boundaries on smaller lots.
- Front setbacks average at around 6m.

The future character statement of Precinct 5 includes:

- New development reflects the predominant scale and form of buildings in landscaped settings.
- The semi-rural character of Willowbank Road will be retained by setting back buildings 12m from property boundaries.
- Front and side setbacks are consistent with the rhythm of surrounding built form.

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RESPONSE:

The proposed amendment to the Development Plan and subsequent subdivision seeks to carry out the vision of the Gisborne Futures Structure Plan. The proposed subdivision of the site will increase the housing supply in an area with access to existing community facilities and services. In this way, this application seeks to manage and appropriately direct residential development and growth to areas with existing infrastructure and services.

6.3 Gisborne Development Contributions Plan

The Gisborne Development Contributions Plan was prepared in 2013 to support the Gisborne Outline Development Plan. This plan seeks to ensure that developers of residential, commercial and industrial zoned land in Gisborne pay a share of the planned public infrastructure in the town. The GDP4A area is wholly within Charge Area 14.

RESPONSE:

A small part of infrastructure items OS3 (Willowbank Road to Brady Road open space bicycle link) and OS6 (Bicycle and pedestrian links from Willowbank Road to Brooking Road) are within the GDP4A area. These infrastructure items have already been constructed.

Any additional requirements within the Gisborne Development Contribution Plan will be attended to during the subdivision stage.



7 Conclusion

This report has assessed the proposed amendments to the existing Gisborne Development Plan 4A against the Planning Policy Framework, Local Planning Policy Framework (including the Municipal Strategic Statement), the General Residential Zone, Overlays as well as the General Provisions of the Macedon Ranges Planning Scheme.

This report highlights that the amended plan is an appropriate development outcome for future residents within the Macedon Ranges Shire and responds to the role of Gisborne as an expanding town with growing population pressures. The proposed amendment supports the growth of Gisborne as it will allow for the orderly and planned development of the subject site. The proposal seeks to increase the housing yield of the area, whilst still respecting the purpose of the General Residential Zone.

The subject site at 75 Willowbank Road is ultimately, the last 'piece of the puzzle' under the Gisborne Development Plan 4A as all surrounding lots have been developed for residential use. As such, the amendments to the Development Plan will allow for the proposed development under the GDP4A to be completed in a cohesive and functional matter.

As such, it is considered that the proposal is an appropriate outcome having regard to the provisions of the Macedon Ranges Planning Scheme and strategic documents, and therefore warrants Council approval.





AMENDMENT TO GISBORNE DEVELOPMENT PLAN 4A | 75 WILLOWBANK ROAD, GISBORNE

Appendix B Site Context Plan

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75 Willowbank Road Gisbourne

Flora and Fauna Assessment

Prepared for Emily Ling

October 2022 Report No. 22057.01 (1.0)





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1. Executive summary

Nature Advisory Pty Ltd undertook a flora and fauna assessment of a 5.5-hectare area of land in Gisborne. Subdivision and development are proposed for 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 2017a), herein referred to as 'the Guidelines', 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.

Vegetation in the study area consisted of two distinct vegetation types: planted gardens and windrows and cleared pasture (with a small dam). Planted vegetation included Radiata Pine windrows bordering the property, olive and fruit tree orchards, and a planted garden. The cleared pasture comprised predominantly introduced pasture grasses, including Sweet-vernal Grass, Yorkshire Fog, Paspalum and Onion Weed. Native vegetation in the cleared pasture comprised sparsely scattered Rushes, Wallaby Grass and Spear Grass. Three small scattered Swamp Gum trees with some recruits were located on the eastern boundary near the dam, and several Swamp Gum recruits were scattered nearby.

Fauna habitat in the study area consisted of three main types: grassland (the main habitat present), planted treed vegetation (present at the peripheries of the study area), and aquatic habitat (present as a small dam adjacent to the end of Rothschild Rd). The study area was observed to be used by species of native birds and amphibians commonly found in urban and agricultural areas and may be used by native mammals and birds that are also commonly found in such habitats. A small number of listed fauna species could occasionally visit the study area, but none of them were considered to be susceptible to development in the study area.

The following native vegetation was recorded in the study area:

• 3 small scattered trees.

The proponent proposes to remove 1 small scattered tree.

The application site lies within Location 1. Based on the extent of native vegetation, the number of large trees, and the location category, the proposal must be assessed under the **Basic** assessment pathway. This **would not** trigger a referral to the Department of Environment, Land, Water and Planning (DELWP).

A Native Vegetation Removal (NVR) report for this proposal is provided in Appendix 7.

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

- 0.006 general habitat units, with following offset attribute requirements:
 - A minimum strategic biodiversity value (SBV) of 0.248
 - Located within the Melbourne Water CMA boundary or the Macedon Ranges municipal district.

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



MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Page | 1 Authorised Officer: Jack Wiltshire Page: 46 of 221 SIGNED: In addition to this, a permit is required for the removal of incidental occurrences of native vegetation that do not constitute a patch or scattered tree under the Guidelines. No offsets obligations are generated from such removal.

The table below summarises 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 2017a).

	Application requirement	Response
1.	Information about the native vegetation to be removed.	Section 5.3.1.
2.	Topographic and land information relating to the native vegetation to be removed.	Section 4.1.
3.	Recent, dated photographs of the native vegetation to be removed.	Appendix 6.
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.	N/A
5.	An avoid and minimise statement.	Section 6.5.1
6.	A copy of any Property Vegetation Plan contained within an agreement made pursuant to section 69 of the <i>Conservation, Forests and Lands Act 1987</i> that applies to the native vegetation to be removed.	N/A
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.	N/A
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).	N/A
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.	Appendix 9.



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2. Introduction

Nature Advisory Pty Ltd was engaged to conduct a flora and fauna assessment of a 5.5-hectare area of land in Gisborne. The specific area investigated, referred to herein as the 'study area', comprised a private dwelling with planted gardens and an empty pasture. The study area is surrounded by low and medium density housing. Subdivision and development are proposed for 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 2017a), herein referred to as 'the Guidelines', 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:

- Existing information regarding the flora, fauna and native vegetation of the study area and surrounds will be reviewed, and will include the following:
 - Victorian Biodiversity Atlas administered by the Department of Environment, Land, Water and Planning (DELWP);
 - The Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) Protected Matters Search Tool; and
 - DELWP's Native Vegetation Information Management system (NVIM).
- A site survey will be undertaken and will involve 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;
 - Compilation of a flora species list/flora and fauna species lists for the site;
 - Assessment of the nature and quality of native fauna habitat; and
 - Assessment of the likelihood of occurrence of EPBC Act- and Flora and Fauna Guarantee Act 1988 (FFG Act)-listed flora, fauna and communities on the site

This investigation was undertaken by a team from Nature Advisory comprising Merinda Day-Smith (Botanist), Michael Sebastian (Zoologist), James Bennie (GIS Analyst) Jim Grant (Senior Ecologist & Project Manager).



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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. Local planning provisions

The study area is located within the Macedon Ranges local government area and is currently zoned General Residential (GRZ1) in the Macedon Ranges Planning Scheme.

Local planning provisions apply under the Victorian Planning and Environment Act 1987.

3.2. Overlays

The study area is subject to the following two overlays in the Macedon Ranges Planning Scheme:

- Development Contributions Overlay Schedule 2 (DCPO2) This overlay is considered to be irrelevant to the current investigation.
- Development Plan Overlay Schedule 4 (DPO4) The purpose of this overlay is to ensure coordinated development of Gisborne and relates to the protection of remnant indigenous native vegetation. Information required to address the decision guidelines of this overlay is provided in this report.

3.3. State planning provisions

State planning provisions are established under the Victorian Planning and Environment Act 1987.

Clause 52.17 of all Victorian Planning Schemes states the following:

A permit is required to remove, destroy or lop native vegetation, including dead native vegetation.

A permit is not required if any of the following apply:

- An exemption in Table 52.17-7 specifically states that a permit is not required.
- 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.

3.3.1. Exemptions

Exemptions listed in Table 52.17-7 relevant to the study area include the following:

- 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.
- Regrowth: Native vegetation that is to be removed, destroyed or lopped that has been naturally
 established or regenerated on land lawfully cleared of naturally established native vegetation
 and meets the following criteria:
 - Is less than 10 years old; or
 - Is Austral Bracken (Pteridium esculentum); or



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- Falls within the boundary of a timber production plantation, as indicated on a Plantation Development Notice or other documented record and has become established after the plantation; or
- Is less than 10 years old at the time of a property vegetation plan being signed by the Secretary to the Department of Environment, Land, Water and Planning (DELWP) (as constituted under Part 2 of the Conservation, Forests and Lands Act 1987) and is shown on that plan as being 'certified regrowth'; and occurs on land that is to be used or maintained for cultivation or pasture during the term of that plan.

This exemption does not apply to land where native vegetation has been destroyed or otherwise damaged as a result of flood, fire or other natural disaster.

3.3.2. Application requirements

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

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 DELWP.

The application of the Guidelines (DELWP 2017a) is explained further in Appendix 1.

3.3.3. Referral to DELWP

Clause 66.02-2 of the planning scheme determines the role of DELWP in the assessment of native vegetation removal permit applications. If an application is referred, DELWP 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 DELWP 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.

3.4. 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).



MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Page | 5 Authorised Officer: Jack Wiltshire Page: 50 of 221 SIGNED: Implications under the EPBC Act for the current proposal are discussed in Section 7.4.

3.5. FFG Act

The Victorian *Flora and Fauna Guarantee Act* 1988 (FFG Act) lists threatened and protected species and ecological communities (DELWP 2017b, DELWP 2018b). Any removal of protected flora, including threatened flora species and plants that constitute threatened communities listed under the FFG Act from public land, requires a Protected Flora Licence or Permit under the Act that can be obtained from DELWP.

The FFG Act only applies to private land where a license is required to remove grass trees, tree ferns and sphagnum moss for sale or where an Interim Conservation Order has been made to protect critical habitat for a threatened species or community. As no such habitat has ever been declared, this mechanism under the FFG Act has never been implemented.

Implications under the FFG Act for the current proposal are discussed in Section 7.5.

3.6. EE Act

One or a combination of several criteria may trigger a requirement for a Referral to the Victorian Minister for Planning who will determine whether an Environmental Effects Statement (EES) will be required according to the *Ministerial Guidelines for Assessment of Environmental Effects under the* Environment Effects Act 1978 (DSE 2006).

The criteria related to flora, fauna and native vegetation that trigger a Referral are listed below.

<u>One or more</u> of the following would trigger a Referral:

- Potential clearing of 10 or more hectares of native vegetation from an area that meets the following criteria:
 - Is of an Ecological Vegetation Class identified as endangered by the Department of Sustainability and Environment (in accordance with Appendix 2 of Victoria's Native Vegetation Management Framework); or
 - Is, or is likely to be, of very high conservation significance (as defined in accordance with Appendix 3 of Victoria's Native Vegetation Management Framework); and
 - Is not authorised under an approved Forest Management Plan or Fire Protection Plan;
- Potential long-term loss of a significant proportion (e.g., 1 to 5 percent depending on the conservation status of the species) of known remaining habitat or population of a threatened species within Victoria;
- Potential long-term change to the ecological character of a wetland listed under the Ramsar Convention or in 'A Directory of Important Wetlands in Australia'; or
- Potential extensive or major effects on the health or biodiversity of aquatic, estuarine or marine ecosystems, over the long term.

<u>Two or more</u> of the following would also trigger a Referral:

- Potential clearing of 10 or more hectares of native vegetation, unless authorised under an approved Forest Management Plan or Fire Protection Plan;
- Matters listed under the Flora and Fauna Guarantee Act 1988, including the following:
 - Potential loss of a significant area of a listed ecological community; or



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- Potential loss of a genetically important population of an endangered or threatened species (listed or nominated for listing), including as a result of loss or fragmentation of habitats; or
- Potential loss of critical habitat; or
- Potentially significant effects on habitat values of a wetland supporting migratory bird species.

Implications under the *Environment Effects Act* 1978 (EE Act) for the current proposal are discussed in Section 7.6.

3.7. 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 7.7.





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.

Macedon Ranges Planning Scheme;

4.1.2. Native vegetation

Pre-1750 (pre-European settlement) vegetation mapping administered by DELWP 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 Victorian Volcanic Plain bioregion¹ (DSE 2004a); and
- NatureKit (DELWP 2022a).

4.1.3. Listed matters

Existing flora and fauna species records and information regarding the potential occurrence of listed matters were obtained from an area termed the 'search region', defined here as an area with a radius of 5 kilometres from the approximate centre point of the study area.

A list of the flora and fauna species recorded in the search region was obtained from the *Victorian Biodiversity Atlas* (VBA), a database administered by DELWP.

The online EPBC Act *Protected Matters Search Tool* (DAWE 2022a) was consulted to determine whether nationally listed species or communities potentially occurred in the search region based on habitat modelling.

4.2. Field methods

The field assessment was conducted on 4th October 2022. During this assessment, the study area was initially surveyed in detail on foot.

Sites in the study area found to support native vegetation or with potential to support listed matters were mapped through a combination of aerial photograph interpretation and ground-truthing using a hand-held GPS (accurate to approximately five metres). Species and ecological communities listed as threatened under the EPBC Act were also mapped using the same method.

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 2017a) further classify native vegetation as belonging to two categories:

¹ 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). MACEDON RANGES PLANNING SCHEME



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- Patch; or
- Scattered tree.

The definitions of these categories are provided below, along with the prescribed DELWP methods of assessment. Further details on definitions of patches and scattered trees are provided in Appendix 1.

Patch

A patch of native vegetation may be defined as one of the following:

- An area of vegetation where at least 25 per cent of the total perennial understorey plant cover is native; or
- Any area with three or more native canopy trees² where the drip line³ of each tree touches the drip line of at least one other tree, forming a continuous canopy; or
- Any mapped wetland included in the *Current wetlands map*, available at *MapShareVic* (DELWP 2022b).

Patch condition is assessed using the habitat hectare method (Parkes *et al.* 2003; DSE 2004b) whereby components of the patch (e.g., tree canopy, understorey and ground cover) are assessed against an EVC benchmark. The score effectively measures the percentage to which the condition of the vegetation resembles the original condition.

The *Native Vegetation Information Management* (NVIM) system (DELWP 2022c) provides modelled condition scores for native vegetation to be used in certain circumstances.

Scattered tree

A scattered tree may be defined as the following:

• A native canopy tree² that does not form part of a patch.

Scattered trees are counted and mapped, the species identified and the circumference at 1.3 m above the ground is recorded.

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 identification using laboratory techniques were collected.

Species protected under the FFG Act were determined by crosschecking against the FFG Act *Protected Flora List* (DELWP 2017b).

The potential for habitats to support listed flora species was assessed based on the following criteria:

 The presence of suitable habitat for flora species such as soil type, floristic associations and landscape context; and

³ The drip line is the outermost boundary of a tree canopy (leaves and/or branches) where the water drips onto the ground.
MACEDON RANGES PLANNING SC





² A native canopy tree is a mature tree (i.e., able to flower) that is taller 3 metres and normally found in the upper layer of the relevant vegetation type.

• The level of disturbance of suitable habitats by anthropogenic disturbances and invasions by pest plants and animals.

Wherever appropriate, a precautionary approach was adopted in determining the likelihood of occurrence or flora listed under the EPBC Act and/or FFG Act. That is, where insufficient evidence was available regarding the potential occurrence of a listed species, the assumption was made that this could be in an area of suitable habitat.

4.2.3. Fauna species and habitats

The techniques below were used to detect fauna species utilising the study area.

- Incidental searches for mammal scats, tracks and signs (e.g., diggings, signs of feeding and nests/burrows).
- Turning over logs/rocks and other ground debris for reptiles, frogs and mammals.
- Daytime bird observations.
- General searches for reptiles and frogs, including identification of frog calls in seasonally wet areas.
- General searches for bat habitat including waterbodies and potential roosting sites such as caves, dead trees with hollows and underneath the bark of trees.

Fauna habitats are described using habitat components that include old-growth trees, fallen timber, leaf litter and surface rocks.

Habitat connectivity of the study area (i.e., degree of isolation/fragmentation), including linkages to other habitats in the region, was determined using field observations, recent aerial photography and *NatureKit* (DELWP 2022a).

Wherever appropriate, a precautionary approach was adopted in determining the likelihood of occurrence or fauna listed under the EPBC Act and FFG Act. That is, where insufficient evidence was available regarding the potential occurrence of a listed species, the assumption was made that this could be in an area of suitable habitat.

4.2.4. Threatened ecological communities

The likelihood of listed threatened ecological communities occurring in the study area was determined by checking general field observations against published descriptions of relevant listed ecological communities modelled to potentially occur in the study area.

Reviewed ecological community descriptions comprised identification criteria and condition thresholds from listing advice for EPBC Act communities and FFG Act-listed community descriptions (SAC 2015).

4.3. Limitations of field assessment

The site assessment was conducted during spring. 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 had recently been slashed, removing the inflorescences of most flowering grasses. Difficulties in identifying flora in the observed state limited the accuracy of determining native vegetation patch extent. Timing of the survey and condition of vegetation were otherwise considered suitable to ascertain the extent and condition of native vegetation and fauna habitats.



MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Page | 10 Authorised Officer: Jack Wiltshire Page: 55 of 221 SIGNED: These limitations were not considered to compromise the validity of the current investigation that was designed to address the relevant policies and decision guidelines.

Determination of EVCs considers vegetation types that would have naturally occurred in the landscape prior to European impacts. Significant past alteration of the study area's landform, hydrology and soil composition, and past vegetation clearance has resulted in the emergence of an artificial site ecosystem and the reestablishment of vegetation that is likely to be notably different from that which would have naturally occurred in the study area. Determination of EVCs in altered areas was therefore based on consideration of the following:

- Modelled EVC mapping (DELWP 2022a);
- Observations of adjacent landforms that had not been significantly altered;
- Observations of nearby natural vegetation;
- Any observed indigenous flora species that are useful for determining EVCs; and
- Relevant published EVC benchmark descriptions.

If this information was insufficient to reasonably determine which EVC would have naturally occurred and the observed vegetation resembled an EVC that is likely to have naturally occurred in the region, EVC determination was based on the structure and floristic composition of current observed vegetation.





5. Assessment results

5.1. Site description

The study area for this investigation (Figure 1) constituted approximately 5.95 hectares of private land located at Gisborne, approximately 46km north-west of Melbourne, and was bordered by Willowbank Road to the north, and adjoining residential housing to the east, south and west.

The study area supported dark clay on a flat, south-sloping landscape comprising a private dwelling with planted gardens and orchards in the northern half and a cleared pasture in the southern half. One small dam was located on the eastern boundary, adjacent to Rothschild Road. The study area was bordered by a planted pine wind break.

Past land use of the study area and surrounds include stock grazing and cropping. The Gisborne and New Gisborne township as subject to rapid residential expansion in the last 15 years with the study area being the largest single lot in the immediate surrounds.

Vegetation in the study area consisted of two distinct vegetation types: planted gardens and windrows and cleared pasture (with a small dam). Planted vegetation included Radiata Pine windrows bordering the property, Olive and fruit tree orchids, and a planted garden. The cleared pasture comprised predominantly introduced pasture grasses, including Sweet-vernal Grass, Yorkshire Fog, Paspalum and Onion Weed. Native vegetation in the cleared pasture comprised sparsely scattered Rushes, Wallaby Grass and Spear Grass. Three small scattered Swamp Gum trees with some recruits were located on the eastern boundary near the dam, and several Swamp Gum recruits were scattered nearby.

Fauna habitat within the study area comprised:

- Grassland, present as the predominant groundcover throughout the study area.
- Planted treed vegetation and associated litter, primarily pine trees around the periphery of the study area, although there were some planted eucalypts among them, with a few clustered near a small dam.
- Aquatic habitat, restricted to a small dam in the east of the study area.

The following key fauna habitat areas occurred within the region:

- Jackson's Creek occurred approximately 1.1 kilometres north of the study area. Native vegetation in the study area was isolated from this habitat by residential areas and roads (especially the C791/Melbourne Rd).
- Rosslynne Reservoir occurred approximately 4.2 kilometres northwest of the study area. Native vegetation in the study area was isolated from this habitat by residential areas (i.e., most of Gisborne), as well as two highways (C705/Melton Rd and C704/Bacchus Marsh Rd).
- Willowbank Estate Reserve occurred approximately 550 metres west of the study area. Native vegetation in the study area was isolated from this habitat by residential areas, and Brady Rd.
- Mt Gisborne Reserve occurred approximately 2.19 kilometres southwest of the study area. Native vegetation in the study area was isolated from this habitat by residential areas and roads.
- Lerderderg State Park occurred approximately 4.5 kilometres southwest of the study area. Native vegetation in the study area was isolated from this habitat by residential land as well as a highway (C705/Melton Rd)



MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Page | 12 Authorised Officer: Jack Wiltshire Page: 57 of 221 SIGNED: The study area does not appear to provide any important connectivity between any important habitat areas.

The study area lies within the Victorian Volcanic Plain bioregion and falls within the Melbourne Water catchment management area.

5.2. Native vegetation

5.2.1. Patches of native vegetation

Pre-European EVC mapping (DELWP 2022a) indicated that the study area and surrounds would have supported Plains Grassy Woodland (EVC 55) and Scoria Cone Woodland (EVC 894) 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 highly degraded *Higher rainfall* Plains Grassy Woodland (EVC 55_63) was present in in the southern half of the study area represented by several scattered Swamp Gum trees and sparsely scattered understory vegetation. However, this native vegetation did not meet the requirements under the guidelines to constitute a patch. The understory vegetation is treated as incidental occurrences of native vegetation.







Figure 1: Study area and native vegetation

Project: 75 Willowbank Road, Gisbourne Client: Calibre Group Date: 21/10/2022

Study area

Small scattered tree





5.2.2. Scattered trees

Scattered trees recorded in the study area would once have comprised the canopy component of *Higher rainfall* Plains Grassy Woodland (EVC 55_63).

Three small scattered trees (< 70-centimetre DBH) occurred in the study area (Figure 1).

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

5.3. Flora species

5.3.1. Species recorded

During the field assessment, 32 plant species were recorded, of which 13 (40%) were indigenous and 19 (60%) were introduced or non-indigenous native in origin (Appendix 3).

5.3.2. Listed species

Records from the VBA (DELWP 2022d) and Commonwealth EPBC Protected Matters Search Tool (DAWE 2022a) indicated that within the search region there were records of, or potential suitable habitat occurred for, 18 species listed under the Commonwealth EPBC Act and 23 listed under the state FFG Act, including 15 listed under both Acts. No flora species listed under the EPBC Act were recorded during the field survey.

The likelihood of occurrence of species listed under the EPBC Act and FFG Act in the study area is addressed in Table 1. Species considered 'likely to occur' have very highpotential of occurring in the study area based on numerous records in the search region and suitable habitat in the study area. Species considered to have the 'potential to occur' are those for which suitable habitat exists, but recent records are scarce.

This analysis indicates that no listed flora species are likely to occur or have the potential to occur.





Table 1 Listed flora species and their likelihood of occurrence in the study area

O Nome		Conservation status			Number of	Date of last	
Common Name	Scientific name	EPBC	FFG	Habitat	records	record	Likelinood of occurrence
Sticky Wattle	Acacia howittii		Vulnerable	Victorian endemic, confined to east from upper Macalister River area near Mt Howitt south to near Yarram and east to near Tabberabbera, growing in moist forest; widely cultivated and naturalising in some areas (e.g., Daylesford, Greater Melbourne, Dandenong Ranges etc.) (VicFlora 2022).	1	25/06/2012	Outside of natural range. No recent records near study area. Unlikely to occur
Bacchus Marsh Wattle	Acacia rostriformis		Vulnerable	Confined to the Bacchus Marsh area (Lerderderg Gorge, Long Forest, Coimadai, Balliang and Werribee) where it occurs in low hilly areas in Eucalyptus woodland. Records from outside the Bacchus Marsh area are thought to be mislabelled or possibly of cultivated material (VicFlora 2022).	8	24/12/2013	Outside of natural range. No recent records near study area. Unlikely to occur
River Swamp Wallaby-grass	Amphibromus fluitans	Vulnerable		River Swamp Wallaby-grass grows mostly in permanent swamps and also lagoons, billabongs, dams and roadside ditches. The species requires moderately fertile soils with some bare ground; conditions that are caused by seasonally fluctuating water levels (DAWE 2020).	None	N/A	No records within 10km of study area. Unlikely to occur.
Candy Spider-orchid	Caladenia versicolor	Vulnerable	Endangered	Restricted to the western part of the Midlands region in the vicinity of Stawell, in woodland on winter-wet sandy loam (VicFlora 2022).	None	N/A	Outside of natural range. No recent records near study area. Unlikely to occur
Pale Swamp Everlasting	Coronidium gunnianum		Critically Endangered	Widespread throughout the state except for the north- west and the alpine and adjacent mountainous areas, and usually at low elevations (under c. 100 m) where mostly in grasslands and riverine Eucalyptus camaldulensis woodland on soils that are prone to inundation (VicFlora 2022).	5	18/05/2011	Habitat in degraded state and unlikely to support species. Unlikely to occur.
Matted Flax-lily	Dianella amoena	Endangered	Critically Endangered	Lowland grassland and grassy woodlands on well- drained to seasonally waterlogged fertile sandy loams to heavy cracking soils derived from sedimentary or volcanic Geology. It is widely distributed from eastern to south-western Victoria (DAWE 2020).	5	6/12/2016	Habitat in degraded state and unlikely to support species. Unlikely to occur.
Spotted Hyacinth-orchid	Dipodium pardalinum		Endangered	Victoria, scattered in higher rainfall parts of the west (VicFlora 2022).	5	31/01/2017	Habitat in degraded state and unlikely to support species. Unlikely to occur.
Small Golden Moths	Diuris basaltica	Endangered	Critically Endangered	Grows in herb-rich native grasslands, dominated by Kangaroo Grass (<i>Themeda triandra</i>) on heavy basaltic soils, often embedded with basalt boulders. All locations that the species is known to occur form part of the 'Natural Temperate Grassland of the Victorian Volcanic Plain' (DAWE 2020).	None	N/A	Outside of natural range. No recent records near study area. Unlikely to occur
Sunshine Diuris	Diuris fragrantissima	Endangered	Critically Endangered	Native grasslands dominated by Kangaroo Grass, on heavy basalt soils, often with embedded basalt boulders; the only remaining natural population at Sunshine occurs in a small (0.1 ha) remnant of Western (Basalt) Plains Grassland (DAWE 2020).	None	N/A	Outside of natural range. No recent records near study area. Unlikely to occur
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		Conservation status			Number of	Date of last		
Common Name	Scientific name	EPBC	FFG	- Habitat	records	record	Likelihood of occurrence	
Trailing Hop-bush	Dodonaea procumbens	Vulnerable		Grows in low lying, often winter wet areas in woodland, low open-forest heathland and grasslands on sands and clays. Largely confined to SW of Victoria (DAWE 2020).	None	N/A	Outside of natural range. No recent records near study area. Study are does not support suitable habitat. Unlikely to occur	
Black Gum	Eucalyptus aggregata	Vulnerable	Vulnerable	Victoria, restricted to Gisborne- Woodend region (Brooker & Slee 1996).	None	N/A	Recent records near study area. Appropriate habitat and associated species were present. However, only Eucalypt trees in the study area were Swamp Gum and planted Blue Gum Unlikely to occur.	
Large-flower Crane's-bill	Geranium sp. 1		Critically Endangered	Volcanic plains in Grassy Woodland, Plains Grassland and Plains Grassy Wetland (Bull 2014).	2	21/04/2005	No recent records within 10km of study area. Habitat in degraded state and unlikely to support species. Unlikely to occur.	
Clover Glycine	Glycine latrobeana	Vulnerable	Vulnerable	Found across south-eastern Australia in native grasslands, dry sclerophyll forests, woodlands and low open woodlands with a grassy ground layer. In Victoria, populations occur in lowland grasslands, grassy woodlands and sometimes in grassy heath (DAWE 2020).	None	N/A	No recent records within 10km of study area. Habitat in degraded state and unlikely to support species. Unlikely to occur.	
Adamson's Blown-grass	Lachnagrostis adamsonii	Endangered	Endangered	Confined to slow moving creeks, swamps, flats, depressions or drainage lines that are seasonally inundated or waterlogged and usually moderately to highly saline. Appear to favour sites that have some shelter from the wind (DAWE 2020).	None	N/A	No recent records within 10km of study area. Habitat in degraded state and unlikely to support species. Unlikely to occur.	
Spiny Peppercress	Lepidium aschersonii	Vulnerable	Endangered	The Spiny Peppercress occurs in periodically wet sites such as gilgai depressions and the margins of freshwater and saline marshes and shallow lakes, usually on heavy clay soil. Almost all sites receive some degree of soil waterlogging or seasonal flooding.	None	N/A	No recent records within 10km of study area. Habitat in degraded state and unlikely to support species. Unlikely to occur.	
Basalt Peppercress	Lepidium hyssopifolium s.s.	Endangered	Endangered	Known to establish on open, bare ground with limited competition from other plants. Previously recorded from Eucalypt woodland with a grassy ground cover, low open Casuarina woodland with a grassy ground cover and tussock grassland. Now generally found amongst exotic pasture grasses and beneath exotic trees (DAWE 2020).	None	N/A	No recent records within 10km of study area. Habitat in degraded state and unlikely to support species. Unlikely to occur.	
White Sunray	Leucochrysum albicans subsp. tricolor	Endangered	Endangered	Occurs in a wide variety of grassland, woodland and forest habitats, generally on relatively heavy soils. Plants can be found in natural or semi-natural vegetation and grazed or ungrazed habitat. Bare ground is required for germination. The unpalatability of this species is likely to protect it in heavily grazed areas where patches of bare ground are likely to develop, favouring recruitment (DAWE 2020).	None	N/A	No recent records within 10km of study area. Habitat in degraded state and unlikely to support species. Unlikely to occur.	
Giant Honey-myrtle	Melaleuca armillaris subsp. armillaris		Endangered	Near coastal sandy heaths. Widely planted	2	6/12/2016	Outside of natural range. Any plant near study area likely to be plantings. Unlikely to occur.	
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Common Nomo	Scientifie nome	Conservation status		Labitat	Number of	Date of last	likelihood of ecourrence	
Common Name	Scientific name	EPBC	FFG	Παυιτατ	records	record		
Plains Yam-daisy	Microseris scapigera s.s.		Critically Endangered	Moist depressions on the Western Basalt Plains (Jeanes 1999).	1	2/12/1996	No recent records within 10km of study area. Habitat in degraded state and unlikely to support species. Unlikely to occur.	
Spiny Rice-flower	Pimelea spinescens subsp. spinescens	Critically Endangered	Critically Endangered	Occurs in grassland or open shrubland on basalt derived soils, usually comprising black or grey clays. Plants from more northerly populations occur on red clay complexes, while plants from southern populations occur on heavy grey-black clay loams. Topography is generally flat, but populations may occur on slight rises or in slightly wettish depressions.	None	N/A	No recent records within 10km of study area. Habitat in degraded state and unlikely to support species. Unlikely to occur.	
Green-striped Greenhood	Pterostylis chlorogramma	Vulnerable	Endangered	Occurs in mixed Box-Stringybark forest with a shrubby understorey, often with Pteridium esculentum as a major component on sandy or clay loam soils (Duncan et al. 2009).	1	24/09/1990	Outside of natural range. No recent records near study area. Study are does not support suitable habitat. Unlikely to occur	
Button Wrinklewort	Rutidosis leptorhynchoides	Endangered	Endangered	In Victoria restricted to open stands of plains grassland and grassy woodlands, on fertile clays to clay loams, usually in areas where the grass cover is more open, either as a result of recurrent fires or grazing by native macropods or stock. It also occurs on low rises with shallow, stony soils at less than 100 m above sea level.	None	N/A	No recent records within 10km of study area. Habitat in degraded state and unlikely to support species. Unlikely to occur.	
Large-headed Fireweed	Senecio macrocarpus	Vulnerable	Critically Endangered	Victoria, occurs most commonly in grasslands on red- brown earth soils; may also occur in grassy woodlands and open woodlands predominantly in the Western (Basalt) Plains grassland on red brown earth soils found on recent Quaternary (basalt) deposits (DAWE 2020).	None	N/A	Outside of natural range. No recent records near study area. Study are does not support suitable habitat. Unlikely to occur	
Swamp Fireweed	Senecio psilocarpus	Vulnerable		Herb-rich winter-wet swamps on volcanic clays or peaty soils (Walsh 1999). Known from approximately 10 sites between Wallan, about 45 km north of Melbourne, and Honans Scrub in south-eastern South Australia (TSSC 2008).	3	16/11/2016	Outside of natural range. No recent records near study area. Study are does not support suitable habitat. Unlikely to occur	
Hairy-leaf Triggerplant	Stylidium armeria subsp. pilosifolium		Critically Endangered	Is thought to be confined to dry heathy vegetation on skeletal shaly soils in the southern foothills of the Macedon Range near Riddells Creek and the Pyrete Range (Best et al. 2009).	1	26/09/2008	Outside of natural range. No recent records near study area. Study are does not support suitable habitat. Unlikely to occur	
Swamp Everlasting	Xerochrysum palustre	Vulnerable	Critically Endangered	Grows in wetlands including sedge-swamps and shallow freshwater marshes, often on heavy black clay soils. Commonly associated genera include <i>Amphibromus, Baumea, Carex, Chorizandra,</i> <i>Craspedia, Eleocharis, Isolepis, Lachnagrostis,</i> <i>Lepidosperma, Myriophyllum, Phragmites australis,</i> <i>Themea triandra</i> and <i>Villarsia</i> (DAWE 2020).	11	6/01/2019	Recent records near study area. However, no associated species present in study area and habitat in degraded condition with little to no native vegetation. Potential to occur.	

Notes: EPBC-T = threatened species status under EPBC Act; FFG = threatened species status under the FFG Act.



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5.4. Fauna habitats

The study area supported the following three fauna habitat types:

- Grassland
- Planted treed vegetation; and
- Aquatic habitat

Grassland: This habitat covered most of the study area and occurred almost everywhere except the at the peripheries and the garden areas at the northern end of the study area (although this area is not being sold for development). About 4.271 ha of this habitat was present. The grassland was dominated by introduced species, with only a small minor presence of native species scattered throughout. There were no surface rocks or logs present for fauna shelter. This part of the study area is not currently used and was likely used in the past for stock grazing and cropping. The grassland is isolated from other habitat by surrounding residential land.



Photo 1: Grassland habitat, present throughout most of study area.

Planted Treed Vegetation: This habitat covered a minority of the study area and occurred at the peripheries of the study area. About 1.227 ha of this habitat was present. It primarily consisted of pine trees, although scattered eucalypts were also present. A few planted garden trees are present at the northern end of the study area, although this area is not being sold for development. Fauna shelter occurred on the ground in the form of leaf and pine needle litter and fallen branches. The trees provided shelter and perching sites for many of the various bird species obperved in the study area, and one of the



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Photo 2: Planted treed vegetation at peripheries of study area

Aquatic Habitat: This habitat covered an extremely small proportion of the study area, occupying 0.013 hectares and being confined to a small dam in the east of the study area. This dam appeared to be permanent, with fringing and floating vegetation present in moderate densities. This habitat was isolated from other habitats outside the study area by surrounding residential land. This part of the study area is not currently used and was likely used in the past as a water source for stock.



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Photo 3: Aquatic habitat - small dam with fringing and floating aquatic vegetation

5.5. Fauna species

5.5.1. Species recorded

During the field assessment 16 fauna species were recorded. This included 14 bird (3 introduced), 1 mammal (1 introduced), and 1 frog species (Appendix 4).

5.5.2. Listed species

The review of existing information [including VBA records (DELWP 2022d) and the results of the EPBC Protected Matters Search Tool (DAWE 2022a) indicated that within the search region there were records of, or potential suitable habitat occurred for, 40 fauna species listed under the Commonwealth EPBC Act and the state FFG Act. The likelihood of occurrence of these species in the study area was assessed and the results are presented in Table 2.

This analysis of potential occurrence of listed fauna species excludes the following:

- Marine fauna given that the study area is inland; and
- Migratory oceanic bird species (such as albatrosses and petrels) and most migratory shorebirds given that the study area is inland.

Species considered 'likely to occur' are those with very high potential of occurring in the study area given the existence of numerous records in the search region and suitable habitat in the study area. Using the precautionary approach, species considered to have the 'potential to occur' are those for which suitable



MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Page | 21 Authorised Officer: Jack Wiltshire Page: 66 of 221 SIGNED: habitat exists, but recent records are scarce. This analysis indicates that 10 listed fauna species are likely to occur or have the potential to occur. These species include the following:

EPBC-listed:

- Fork-tailed Swift (EPBC: Migratory
- Gang-gang Cockatoo (EPBC: Vulnerable)
- Latham's Snipe (EPBC: Migratory)
- Rufous Fantail (EPBC: Migratory)
- Swift Parrot (EPBC: Critically Endangered)
- White-throated Needletail (EPBC: Vulnerable and Migratory)
- Grey-headed Flying Fox (EPBC: Vulnerable)

FFG-listed:

- Grey Goshawk (FFG: Endangered)
- Hardhead (FFG: Vulnerable)
- Lewin's Rail (FFG: Vulnerable)





Table 2: Listed fauna species and their likelihood of occurrence in the study area

Common Name	Scientific name	EPBC-T	EPBC-M	FFG	Habitat	Number of records	Date of last record	Likelihood of occurrence
					Birds			
Australasian Bittern	Botaurus poiciloptilus	Endangered		Critically Endangered	Terrestrial wetlands, including a range of wetland types but prefers permanent water bodies with tall dense vegetation, particularly those dominated by sedges, rush, reeds or cutting grass (Marchant & Higgins 1990).	None	N/A	Unlikely to occur. No suitable habitat in study area - dam had aquatic vegetation, but it was too short.
Australian Painted-snipe	Rostratula australis	Endangered		Critically Endangered	Generally, inhabits shallow terrestrial freshwater wetlands, including temporary and permanent lakes, swamps and claypans. They also use inundated or waterlogged grassland or saltmarsh, dams, rice crops, sewage farms and bore drains. Typical sites include those with rank emergent tussocks of grass, sedges, rushes or reeds, or samphire; often with scattered clumps of Lignum muchlenbeckia or canegrass or sometimes tea-tree (Melaleuca). Sometimes utilises areas that are lined with trees, or that have some scattered fallen or washed-up timber (DAWE 2020).	None	N/A	Unlikely to occur. No records in search region.
Common Greenshank	Tringa nebularia		M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)	Endangered	Inhabits wide range of coastal or inland wetlands with varying levels of salinity; mainly muddy margins or rocky shores of wetlands (Higgins & Davies 1996).	None	N/A	Unlikely to occur. No suitable habitat in study area.
Common Sandpiper	Actitis hypoleucos		M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)	Vulnerable	Inhabits a wide range of coastal or inland wetlands with varying levels of salinity; mainly muddy margins or rocky shores of wetlands. In Victoria, mostly found Westernport and Port Phillip Bay (Higgins & Davies 1996).	None	N/A	Unlikely to occur. No suitable habitat in study area.
Curlew Sandpiper	Calidris ferruginea	Critically Endangered	M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)	Critically Endangered	Inhabits wide range of coastal or inland wetlands with varying levels of salinity; mainly muddy margins or rocky shores of wetlands (Higgins & Davies 1996).	None	N/A	Unlikely to occur. No suitable habitat in study area.
Eastern Curlew	Numenius madagascariensis	Critically Endangered	M (Bonn A1, ROKAMBA, JAMBA, CAMBA)	Critically Endangered	Inhabits sheltered coasts, especially estuaries, embayment, harbours, inlets and coastal lagoons with large intertidal mudflats or sandflats, often with beds of sea grass (Higgins & Davies 1996).	None	N/A	Unlikely to occur. No suitable habitat in study area.
Fork-tailed Swift	Apus pacificus		M (CAMBA, ROKAMBA, JAMBA)		The species can occur in wet sclerophyll forest but mainly prefers open forest or plains. It is almost exclusively aerial and feeds up to hundreds on metres above the ground, but can feed among open forest canopy. The species breeds internationally and seldom roosts in trees (Higgins 1999).	None	N/A	Potential to occur. Occurs as a flyover over most habitat types.



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Gang-gang Cockatoo	Callocephalon fimbriatum	Endangered			In summer generally in tall mountain forests and woodlands, particularly in heavily timbered, mature wet sclerophyll forests and woodlands. Prefer Eucalyptus dominated assemblages. Also occurs in subalpine snow gum woodlands and occasionally in temperate rainforests and regenerating forests. In winter occur at lower altitudes in drier, more open Eucalyptus woodland (Higgins 1999).	3	6/06/2020	Potential to occur. Recent records in search region, and the species may make use of planted pine and eucalypt trees for foraging.
Grey Falcon	Falco hypoleucos	Vulnerable		Vulnerable	Inhabits arid and semi-arid zones; mainly on sandy and stony plains of inland drainage systems, lightly timbered with acacia. Hunt far into open areas, over spinifex, tussock grasslands and low shrublands. In Victoria, few records mostly in north and northwestern regions (Marchant & Higgins 1993).	None	N/A	Unlikely to occur. No suitable habitat in study area.
Grey Goshawk	Accipiter novaehollandiae			Endangered	Inhabit rainforests, open forests, swamp forests, woodlands and plantations; most abundant where forest or woodland provide cover for hunting from perches. in Vic., most common in Otway ranges (Marchant & Higgins 1993).	1	7/04/2021	Potential to occur. Recent records in search region, and the species may make use of planted pine and eucalypt trees, as well as grassland, to forage.
Hardhead	Aythya australis			Vulnerable	Inhabits large, deep waters where vegetation is abundant; particularly deep swamps and lakes, pools and creeks. Also occur on freshwater meadows, seasonal swamps with abundant aquatic flora, reed swamps, wooded lakes and swamps, rice fields, and sewage ponds (Marchant & Higgins 1990).	1	31/10/2018	Potential to occur. Potential habitat on farm dam in study area.
Latham's Snipe	Gallinago hardwickii		M (Bonn A2H, ROKAMBA, JAMBA)		Occurs in wide variety of permanent and ephemeral wetlands; it prefers open freshwater wetlands with dense cover nearby, such as the edges of rivers and creeks, bogs, swamps, waterholes. The species is widespread in southeast Australia and most of its population occurs in Victoria, except in the northwest of the state (Naarding 1983; Higgins & Davies 1996).	3	24/12/2019	Potential to occur. Potential habitat on farm dam in study area.
Lewin's Rail	Lewinia pectoralis			Vulnerable	Occurs in a variety of densely vegetated wetland habitats, fresh or saline, and usually with areas of standing water. Requires shallow water areas for foraging (Marchant & Higgins 1993).	24	16/03/2021	Potential to occur. Potential habitat on farm dam in study area.



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Painted Honeyeater	Grantiella picta	Vulnerable		Vulnerable	Inhabits box-ironbark forests and woodlands and mainly feeds on the fruits of mistletoe. Strongly associated with mistletoe around the margins of open forests and woodlands. Can also be found in farmland containing remnant treed vegetation. Occurs at few localities. Uncommon breeding migrant from further north, arriving in October and leaving in February (Higgins et al. 2001; Tzaros 2005).	None	N/A	Unlikely to occur. No suitable habitat in study area.
Plains-wanderer	Pedionomus torquatus	Critically Endangered		Critically Endangered	This species is highly sensitive to changes in grassland cover and density. Typically inhabits treeless native grasslands with sparse cover, with a preference for grasslands composed of wallaby grass and spear grass (Marchant & Higgins 1993). Habitat becomes unsuitable when grassland becomes dense (CA 2016). Evidence suggests it avoids areas of tree cover, with no records of the species within 300m of trees (>10m high) in their strongholds in New South Wales or Victoria (CA 2016).	None	N/A	Unlikely to occur. No suitable habitat in study area.
Regent Honeyeater	Anthochaera phrygia	Critically Endangered		Critically Endangered	Inhabits dry box-ironbark eucalypt forests near rivers and creeks on inland slopes of the Great Dividing Range. Can also occur in small remnant patches or in mature trees in farmland or partly cleared agricultural land (Higgins et al. 2001).	None	N/A	Unlikely to occur. No records in search region.
Rufous Fantail	Rhipidura rufifrons		M (Bonn A2H)		In east and south-east Australia, mainly inhabits tall wet sclerophyll forests, often in gullies. When on passage in warmer months, they are sometimes recorded in drier sclerophyll forests and woodlands, as well as parks and gardens (Higgins et al. 2006). Virtually absent from south-eastern Australia during winter (Higgins et al. 2006).	1	16/12/2020	Potential to occur. Recent records in search region, and the species may make use of planted pine and eucalypt trees.
Satin Flycatcher	Myiagra cyanoleuca		M (Bonn A2H)		Mostly found in eucalypt forest, particularly tall wet forests and woodland within gullies (Higgins et al. 2006). Also inhabits eucalypt woodland comprising an open understorey and a grassy ground layer (Higgins et al. 2006). Generally absent from rainforest (Higgins et al. 2006).	1	30/11/1992	Unlikely to occur. No suitable habitat in study area.
Sharp-tailed Sandpiper	Calidris acuminata		M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)		Inhabit shallow fresh to saline wetlands, usually coastal to near-coastal, but occasionally farther inland. Wetlands often have open fringing mudflats and low emergent or fringing vegetation (Higgins & Davies 1996).	None	N/A	Unlikely to occur. No records in search region.
South Polar Skua	Catharacta maccormicki		M (Bonn A2H, ROKAMBA, JAMBA)		Inhabit shallow fresh to saline wetlands, usually coastal to near-coastal, but occasionally farther inland. Wetlands often have open fringing mudflats and low emergent or fringing vegetation (Higgins & Davies 1996).	None	N/A	Unlikely to occur. No records in search region.



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Swift Parrot	Lathamus discolor	Critically Endangered		Critically Endangered	Prefers a select range of eucalypts in Victoria, including Yellow Gum, Grey Box, White Box, Red Ironbark and Yellow Box, as well as River Red-gum when this species supports abundant 'lerp' (Saunders & Tzaros 2011). The species is also known to forage within planted stands of Spotted Gum and Sugar Gum (Nature Advisory; unpublished data). Breeds in Tasmania and migrates to the mainland of Australia for the autumn, winter and early spring months. It lives mostly north of the Great Dividing Range, passing through two areas of Victoria on migration: the Port Phillip district and Gippsland (Emison et al. 1987; Higgins 1999; Kennedy & Tzaros 2005). Though it is also not uncommonly sighted in urban areas (Nature Advisory; unpublished data). Occurrence of this species on the mainland can substantially change from year to year depending on food availability, giving potential for this species to occur almost anywhere throughout its range (Emison et al. 1987).	None	N/A	Potential to occur. The species may make use of planted eucalypt trees for foraging, but no records in area.
White-throated Needletail	Hirundapus caudacutus	Vulnerable	M (CAMBA, ROKAMBA, JAMBA)	Vulnerable	Aerial, over all habitats, but probably more over wooded areas, including open forest and rainforest. Often over heathland and less often above treeless areas such as grassland and swamps or farmland (Higgins 1999).	None	N/A	Potential to occur. Occurs as a flyover over most habitat types.
Yellow Wagtail	Motacilla flava		M (CAMBA, JAMBA, ROKAMBA)		Regular non-breeding visitor in northern Australia mainly spring-summer, vagrant to the south. Occupies a wide range of habitats, usually open areas with low vegetation such as crop, grassland and even parkland. Often recorded near water (Higgins, Peter & Cowling 1999)	None	N/A	Unlikely to occur. Rare vagrant to southern Australia.
					Mammals			
Brush-tailed Phascogale	Phascogale tapoatafa			Vulnerable	Dry forest and woodland in association with box, ironbark and stringybark eucalypts (Menkhorst 1995). Closely associated with remnant vegetation, this species occupies large home ranges of woodland habitat (M=100Ha; F=20-70Ha) (Menkhorst 1995).	5	13/05/2016	Unlikely to occur. No suitable habitat in study area.
Eastern Quoll	Dasyurus viverrinus	Endangered		Endangered (Extinct in Victoria)	Probably extinct in mainland Australia. Inhabits a range of open forest, scrubland and heath (Menkhorst 1995).	None	N/A	Unlikely to occur. No suitable habitat in study area.
Grey-headed Flying-fox	Pteropus poliocephalus	Vulnerable		Vulnerable	Brisbane, Newcastle, Sydney and Melbourne are occupied continuously. Elsewhere, during spring, they are uncommon south of Nowra and widespread in other areas of their range. Roosts in aggregations of various sizes on exposed branches. Roost sites are typically located near water, such as lakes, rivers or the coast. Roost vegetation includes rainforest patches, stands of Melaleuca, mangroves and riparian vegetation, but colonies also use highly modified vegetation in urban and suburban areas (DAWE 2020).	None	N/A	Potential to occur. May make use of planted eucalypts in study area when they flower.
Platypus	Ornithorhynchus anatinus			Vulnerable	Inhabits freshwater streams, ranging from alpine creeks to tropical lowland rivers; also lakes, shallow reservoirs and farm dams (Menkhorst and knight 2001).	2	15/11/2017	Unlikely to occur. Insufficient suitable habitat
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				almost entirely composed of Chilean needlegrass (Richter et al. 2013).			on site.
Golden Sun Moth	Synemon plana	Vulnerable	Vulnerable	Areas that are, or have been native grasslands or grassy woodlands. It is known to inhabit degraded grasslands with introduced grasses being dominant, with a preference for the native wallaby grass being present (DEWHA 2009). Also known to be closely associated with exotic grass species, with populations found in grassland	None	N/A	Unlikely to occur. No suitable habitat
				Invertebrates			
Yarra Pygmy Perch	Nannoperca obscura	Vulnerable	Vulnerable	Streams and small lakes, prefers flowing water with abundant aquatic vegetation (Allen et al. 2002).	None	N/A	Unlikely to occur. No suitable habitat in study area.
Dwarf Galaxias	Galaxiella pusilla	Vulnerable	Endangered	Ranges from the far west of the state through to the Mitchell River basin in central Gippsland. Vegetated margins of still water, ditches, swamps and backwaters of creeks, both ephemeral and permanent (Allen et al. 2002). Some wetlands where it occurs may partially or completely dry up during summer, with such wetlands reliant on seasonal flooding plus linkages to other sites where the species occurs, for habitat and population replenishment (Saddlier, Jackson & Hammer 2010). Dwarf Galaxias is also often found in association with burrowing freshwater crayfish (<i>Engaeus spp.</i>), with the crayfish burrows reportedly providing refuge from predators and dry conditions for the species (Saddlier, Jackson & Hammer 2010).	None	N/A	Unlikely to occur. No records in search region.
Australian Grayling	Prototroctes maraena	Vulnerable	Endangered	Large and small coastal streams and rivers with cool, clear waters with a gravel substrate and altering pools and riffles (Cadwallader & Backhouse 1983).	None	N/A	Unlikely to occur. No suitable habitat in study area.
				Fish			
Striped Legless Lizard	Delma impar	Vulnerable	Endangered	Grassland specialist. Known to occur in some areas dominated by introduced species such as Harding Grass Phalaris aquatica, Serrated Tussock Nasella trichotoma and Flatweed Hypocharis radicata and at sites with a history of grazing and pasture improvement. shelter in grass tussocks, thick ground cover, soil cracks, under rocks, spider burrows, and underground debris such as timber. The majority of sites in Victoria and NSW occur on cracking clay soils with some surface rock which provide shelter for the species (DAWE 2020).	None	N/A	Unlikely to occur. No suitable habitat in study area.
Pink-tailed Worm-Lizard	Aprasia parapulchella	Vulnerable	Endangered	Sites where the species is found generally include rocky outcrops or scattered partly buried rocks. This species is diurnal and largely fossorial, sheltering under rocks and vegetation, and in the burrow passages of small ants and termites within grassland and woodland habitats of south-eastern Australia (Robertson & Coventry 2019). It feeds primarily on the larvae and eggs of ants. In Victoria, the species is largely restricted to box-ironbark woodland in the greater Bendigo region, though it may also persist elsewhere in the state (Robertson & Coventry 2019).	None	N/A	Unlikely to occur. No suitable habitat in study area.



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Growling Grass Frog	Litoria raniformis	Vulnerable	Vulnerable	Permanent, still or slow flowing water with fringing and emergent vegetation in streams, swamps, lagoons and artificial wetlands such as farm dams and abandoned quarries (Clemann & Gillespie 2004).	None	N/A	Unlikely to occur. Insufficient suitable habitat in study area, isolated from larger areas of suitable habitat.
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Notes: EPBC-T = threatened species status under EPBC Act; EPBC-M = migratory status under the EPBC Act (M = listed migratory taxa; Bonn Convention (A2H) - Convention on the Conservation of Migratory Species of Wild Animals – listed as a member of a family; Bonn Convention (A2S) - Convention on the Conservation of Migratory Species of Wild Animals - species listed explicitly; CAMBA - China- Australia Migratory Birds Agreement; JAMBA - Japan-Australia Migratory Birds Agreement; ROKAMBA - Republic of Korea Australia Migratory Birds Agreement; FFG = threatened species status under the FFG Act.



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5.5.3. Susceptibility of listed fauna to impacts

The following analysis identifies the susceptibility of listed fauna species that may utilise the study area to development. This analysis includes consideration of the following factors:

- Mobility of the species;
- Availability and extent of other suitable habitat in the region and degree to which each species may rely on habitat in the study area; and

Targeted surveys will be required to determine the presence or absence of any listed fauna species considered to be susceptible to impacts from development.

Birds (non-migratory)

5 listed non-migratory bird species are considered to have the potential to occur in the study area. The susceptibility of these species to possible impacts from any development in the study area is discussed below.

• Gang-gang Cockatoo (EPBC Act: Vulnerable)

This species may occasionally visit the study area due to the presence of planted eucalypt and pine trees, as it may forage for gumnuts and pinecones in these trees. Although these trees occupy a minority of the study area, they still formed a sizeable stand. However, the species is unlikely to breed in the study area, as no tree hollows were observed, and breeding habitat (tall, wet montane forest) was not found in the study area. Furthermore, given the highly mobile nature of this species and the large amount of likely higher-quality habitat in the surrounding region (particularly Lerderderg State Park), Gang-gang Cockatoo would likely not be impacted by development in the study area.

• Grey Goshawk (FFG Act: Endangered)

This species may occasionally visit the study area due to the presence of planted eucalypt and pine trees, as it may use these as perches from which to hunt over the adjacent grassland. However, the species is unlikely to breed in the study area, as breeding habitat (dense, old-growth wet forest) was not found in the study area. Furthermore, given the highly mobile nature of this species and the large amount of likely higher-quality habitat in the surrounding region (particularly Lerderderg State Park), Grey Goshawk would likely not be impacted by development in the study area.

• Hardhead (FFG Act: Vulnerable)

This species may occasionally visit the study area due to the presence of the small, permanent and moderately vegetated dam in the east of the study area. However, since the dam is relatively small and unlikely to be very deep, it probably represents marginal habitat for the species. Furthermore, given the mobile nature of this species and the large amount of likely higher-quality habitat in the surrounding region (particularly Rosslynne Reservoir), Hardhead would likely not be impacted by development in the study area.

• Lewin's Rail (FFG Act: Vulnerable)

This species may occasionally visit the study area due to the presence of the small, permanent and moderately vegetated dam in the east of the study area. However, since the dam is relatively small, not densely vegetated, and is unlikely to contain a large shallow-water zone, it probably represents marginal habitat for the species. Furthermore, given the mobile nature of this species and the large amount of likely higher-quality habitat in the surrounding region (particularly Rosslynne Reservoir), Lewin's Rail would likely not be impacted by development in the study area.

Swift Parrot (EPBC Act: Critically Endangered, FFG: Critically Endangered) RANGES PLANNING SCHEME



DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Page | 30 Authorised Officer: Jack Wiltshire Page: 75 of 221 SIGNED: This species may occasionally visit the study area due to the presence of a few planted eucalypts, as it may forage for nectar when these trees blossom, and forage for lerp should these trees become infested with them. However, the species will not breed in the study area as it breeds only in Tasmania. Furthermore, given the highly mobile nature of this species and the large amount of likely higher-quality habitat in the surrounding region (particularly Lerderderg State Park), Swift Parrot would likely not be impacted by development in the study area.

Migratory Birds

4 listed migratory bird species (excluding oceanic species and most shorebirds) have the potential to occur in the study area. The susceptibility of these species to possible impacts from any development in the study area is discussed below.

• Fork-tailed Swift (EPBC Act: Migratory)

This species may occasionally visit the study area as this aerial species flies over most habitat types. However, it is unlikely to be dependent on any of the resources within the study area, apart from potentially using the dam for drinking. Furthermore, given the extremely mobile nature of this species and the large amount of surface water in the surrounding region (particularly Rosslynne Reservoir), Fork-tailed Swift would likely not be impacted by development in the study area.

• Latham's Snipe (EPBC Act: Migratory)

This species may occasionally visit the study area due to the presence of the small, permanent and moderately vegetated dam in the east of the study area. However, since the dam is relatively small, not densely vegetated, lacks dense cover nearby, and is unlikely to contain a large shallow-water zone, it probably represents marginal habitat for the species. Furthermore, given the mobile nature of this species and the large amount of likely higher-quality habitat in the surrounding region (particularly Rosslynne Reservoir), Lewin's Rail would likely not be impacted by development in the study area.

• Rufous Fantail (EPBC Act: Migratory)

This species may occasionally visit the study area as it can occur in parks and gardens (which roughly corresponds to the vegetation found in the study area) when undertaking migratory movements. However, the habitat in the study area is unlikely to be of sufficient quality for breeding, as the species typically breeds in moist forests. Furthermore, given the extremely mobile nature of this species and the large amount likely higher-quality habitat in the surrounding region (particularly Lerderderg State Park) Rufous Fantail would likely not be impacted by development in the study area.

White-throated Needletail (EPBC Act: Vulnerable and Migratory)

This species may occasionally visit the study area as this aerial species flies over most habitat types. However, it is unlikely to be dependent on any of the resources within the study area, apart from potentially using the dam for drinking. They do not breed in Australia and typically roost in dense woodland or forest, which was not recorded in the study area. Furthermore, given the extremely mobile nature of this species and the large amount of surface water in the surrounding region (particularly Rosslynne Reservoir), White-throated Needletail would likely not be impacted by development in the study area.

Mammals

1 listed mammal species are considered to have the potential to occur in the study area. The susceptibility of these species to possible impacts from any development in the study area is discussed below.

• Grey-headed Flying Fox (EPBC Act: Vulnerable; FFG Act: Vulnerable)



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5.6. Listed ecological communities

The EPBC Protected Matters Search Tool (DAWE 2020a) indicated that 5 ecological communities listed under the EPBC Act had the potential to occur in the search region (Table 3). Occurrence of these communities in the study area was determined based on an assessment of the native vegetation present against published descriptions and condition thresholds for these communities.

Table 3: EPBC Act-listed ecological communities and likelihood of occurrence in the study area
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Ecological Community	EPBC Status	Occurrence in the study area
Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia	Endangered	Vegetation in the study area did not match listing description or meet condition thresholds. Did not occur.
Grassy Eucalypt Woodland of the Victorian Volcanic Plain	Critically Endangered	No patches of native vegetation occurred; therefore, community did not occur.
Natural Temperate Grassland of the Victorian Volcanic Plain	Critically Endangered	No patches of native vegetation occurred; therefore, community did not occur.
White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland	Critically Endangered	Vegetation in the study area did not match listing description or meet condition thresholds. Did not occur.
Seasonal Herbaceous Wetlands (Freshwater) of the Temperate Lowland Plains	Critically Endangered	Vegetation in the study area did not match listing description or meet condition thresholds. Did not occur.

Notes: EPBC = status under the EPBC Act.



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6. Assessment of impacts

6.1. Proposed development

The current proposal will involve subdivision and development for residential housing.

To determine impacts to native vegetation, the proposed development plan was overlaid with the native vegetation mapped as part of this investigation. Native vegetation occurring in the following locations was considered to be removed based on the proposed development plan:

- Direct removal:
 - Native vegetation within all proposed building envelopes; and
 - Native vegetation within all proposed driveways
- Consequential removal:
 - Native vegetation within 10 metres of all proposed building envelopes.
 - Native vegetation within 2 metres on either side of all proposed lot boundaries (to address the future Fences exemption as (per Cl. 52.17-7or52.16-8).
 - Native vegetation required to be removed for the creation of defendable space.
 - Trees with the more than 10% of their TPZ encroached.
 - For subdivisions Native vegetation on new lots with an area of less than 0.4 hectares (to account for future Site area exemption from the requirement for a permit application as per Cl. 52.17-7or52.16-8).

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). A TPZ is defined as an area around the trunk of the tree that has a radius of 12 × the DBH (to a maximum of 15 metres but no less than 2 metres). Dead trees are treated in the same manner.

6.2. Impacts of proposed development

Various design measures have been undertaken for this proposal to avoid and minimise impacts to native vegetation. These are detailed in Section 7.3.1.

6.2.1. Native vegetation

The current proposal footprint will result in the loss of a total extent of 0.031 hectares of native vegetation as represented in Figure 2 and documented in the Native Vegetation Removal (NVR) report provided by DELWP (Appendix 7).

This comprised the following:

1 small scattered trees, equating to an area loss of 0.031 hectares;

The native vegetation to be removed is not in an area mapped as an endangered Ecological Vegetation Class.

There is an understanding that no native vegetation has been approved for removal on the property within the last five years.



Photographs of native vegetation proposed for removal are provided in Appendix 5. MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Page | 33 Authorised Officer: Jack Wiltshire faitht Page: 78 of 221 SIGNED:

6.2.2. Modelled species important habitat

The current proposal footprint will not have a significant impact on any habitat for any rare or threatened species as determined in Appendix 7.

6.2.3. Listed flora species

The analysis of the likelihood of occurrence of listed flora species presented in Section 5.3.2 identified that no listed species would be impacted by any development in the study area.

6.2.4. Fauna habitat

Grassland: Based on the proposed development layout, impacts to the grassland will be high. However, more suitable grazing opportunities exist in the surrounding region, particularly as this patch of grassland is isolated from other patches by residential land. The main animals that would use this habitat are native birds, and they are highly mobile and likely to transition to new areas. The loss of this habitat is therefore not considered to significantly impact any species using it.

Planted Treed Vegetation: Based on the proposed development layout, impacts to the treed vegetation will be high. This will lead to loss of nesting and foraging opportunities for native birds, insects, and possibly mammals. However, there are reserves in the surrounding region, such as Mt Gisborne Reserve roughly 2 km away, that provide more extensive treed vegetation and are connected to very large tracts of forest (i.e., Lerderderg State Park). This is far more favourable fauna habitat, due to its extend and connectedness. The loss of the treed vegetation in the study area is therefore not anticipated to significantly impact any species that utilises it.

Aquatic Habitat: Based on the proposed development layout, impacts to the aquatic habitat will be very high. Amphibians, waterbirds and possibly fish will be the most heavily impacted by the loss of this habitat. However, alternative dams and wetlands are available in the surrounding region, particularly Jackson's Creek roughly 1 km away, which is also connected to large areas of aquatic habitat (i.e., Rosslynne Reservoir). The loss of this habitat is therefore not considered to significantly impact any species that utilises it. However, this habitat should be retained if it is reasonably possible.

6.2.5. Listed fauna species

The analysis of susceptibility of listed fauna species to impacts presented in Section 5.5.3 identified that the following species could be impacted by any development in the study area:

No listed fauna species are likely to be impacted by development in the study area.

6.2.6. Threatened ecological communities

The proposed development footprint will result in no losses of threatened ecological communities.



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- Small scattered tree
- Tree Protection Zone (TPZ)
- \times Tree to be removed



7. Implications under legislation and policy

7.1. Clause 12.01 of the of the Planning Scheme

This development proposal satisfies the principles underpinning Cl. 12.01 of all Victorian Planning Schemes, which are 'To ensure that there is no net loss to biodiversity as a result of the removal, destruction or lopping of native vegetation'. This has been addressed in the following ways:

- Avoidance of native vegetation removal has been achieved through the development plan layout (see Section 7.3.1)
- Impacts to native vegetation will be minimised where possible (see Section 7.3.1)
- Vegetation proposed for removal will be offset (see Section 7.3.3)

7.1.1. Overlay implications

The study area is covered by the following overlay:

• Development Plan Overlay – Schedule 4 (DPO4) – The purpose of this overlay is to ensure co-ordinated development of Gisborne and relates to the protection of remnant indigenous native vegetation.

The decision guidelines require the development plan to include A flora and fauna assessment and, where necessary, an arboriculture assessment, which identifies existing vegetation (including grasses), fauna and natural drainage lines required to be protected and enhanced in the subdivision design. The assessment must include appropriate management recommendations in accordance with Victoria's Native Vegetation Management Framework and an offset plan showing appropriate offsets to compensate for the removal of native vegetation associated with the proposed development.

This report meets the requirements of this overlay.

7.2. Clause 52.17 of the Planning Scheme

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

7.2.1. Exemptions

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.
- *Regrowth:* Native vegetation that is to be removed, destroyed or lopped that has naturally established or regenerated on land lawfully cleared of naturally established native vegetation, and may be classified as one of the following:
 - Less than 10 years old; or
 - Austral Bracken (Pteridium esculentum); or
 - Within the boundary of a timber production plantation, as indicated on a Plantation Development Notice or other documented record and has established after the plantation; or
 - Less than ten years old at the time of a property vegetation plan being signed by the Secretary to DELWP (as constituted under Part 2 of the *Conservation, Forests and Lands Act 1987*) and



MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Page | 36 Authorised Officer: Jack Wiltshire Page: 81 of 221 SIGNED: is shown on that plan as being 'certified regrowth'; and on land that is to be used or maintained for cultivation or pasture during the term of that plan.

This exemption does not apply to land where native vegetation has been destroyed or otherwise damaged as a result of flood, fire or other natural disaster.

7.3. Implications under the Guidelines

7.3.1. 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:

- Strategic level planning The development plan overlay covering the site involves protecting areas of remnant indigenous vegetation where possible.
- Site level planning The site contains very little native vegetation; therefore impacts are minimal in addition to this, three scattered remnant trees were recorded in the study area, two of these trees are to be retained in a reserve.
- Furthermore, no feasible opportunities exist to further avoid and minimise impacts to native vegetation without undermining the key objectives of the proposal.

7.3.2. 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 1.
- Extent of native vegetation: A total of one small, scattered tree.

Based on the extent of native vegetation removal being <0.5 hectares, not including any large trees, and being in Location 1, the Guidelines stipulate that the proposal is to be assessed under the Basic assessment pathway, as determined by the following matrix:

Table 4: Assessment pathway matrix

Extent of notive vegetation	Location Category				
	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 not trigger a referral to DELWP based on the above criteria.





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7.3.3. Offset requirements

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

- 0.006 general habitat units and must include the following offset attribute requirements:
 - Minimum strategic biodiversity value (SBV) of 0.248.
 - Occur within the Melbourne Water CMA boundary or the Macedon Ranges municipal district.

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

7.3.4. 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 (DELWP 2022e).

Evidence that the required offset is available is provided in Appendix 8. The required offset would be secured following approval of the application to remove native vegetation.

7.4. 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.

Based on the relevant guidelines, the proposed development is unlikely to result in a significant impact on EPBC Act-listed values.

Therefore, there are no implications under the EPBC Act.

7.5. FFG Act

The Victorian FFG Act lists threatened and protected species and ecological communities (DELWP 2018b, DELWP 2017b). Any removal of threatened flora species or communities (or protected flora) listed under the FFG Act from public land requires a Protected Flora Permit under the Act, obtained from DELWP.

The land addressed in this assessment is private land; therefore, a Protected Flora Licence or Permit under the FFG Act would not be required for the current proposal.

7.6. EE Act

The *Ministerial Guidelines for Assessment of Environmental Effects under the* Environment Effects Act 1978 (DSE 2006) identifies criteria that trigger a Referral to the State Minister for Planning.

Based on the relevant criteria, a Referral to the State Minister for Planning will not be required under the EE Act for the aspects covered by the current investigation.

7.7. 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.



MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Page | 38 Authorised Officer: Jack Wiltshire Page: 83 of 221 SIGNED: 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.

- Blackberry
- Common Prickly Pear

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.).

7.8. Construction mitigation recommendations

Recommendations to avoid and minimise impacts to native vegetation are provided in this report in Section 7.3.

Additional 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.
- A suitably qualified zoologist must be present for the draining of aquatic habitat in the study area, to capture and relocate any misplaced fauna that may be present. All fauna must be translocated into suitable habitat less than 100 m downstream from their capture point. When frogs are captured and translocated, each individual must be handled with a new pair of disposable gloves.





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Appendix 1: Details of the assessment process in accordance with the Guidelines for the removal, destruction or lopping of native vegetation (DELWP 2017a)

Purpose and objective

Policies and strategies relating to the protection and management of native vegetation in Victoria are defined in the State Planning Policy Framework (SPPF). The objective of all Victorian Planning Schemes, as identified in Clause 12.01, 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 to be achieved through the following three-step approach, as described in 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 from the removal, destruction or lopping of native vegetation.

Note: While a planning permit may still be required, if native vegetation does not meet the definition of either a patch or a scattered tree, an offset under the Guidelines is not required.

Assessment pathways

The first step in determining the type of assessment required for any site in Victoria is to determine the assessment pathway for the proposed native vegetation removal. The three possible assessment pathways for applications to remove native vegetation in Victoria are the following:

- Basic;
- Intermediate; or
- Detailed.

This assessment pathway is determined by the following two factors:

- Location Category, as determined using the Location Map of Victoria. The location category indicates the potential risk to biodiversity from removing a small amount of native vegetation. The three location categories are defined as follows:
 - Location 1 shown in light blue-green on the Location Map; occurring over most of Victoria.
 - Location 2 shown in dark blue-green on the Location Map; includes areas mapped as endangered EVCs and/or sensitive wetlands and coastal areas.
 - Location 3 shown in brown on the Location Map; includes areas where the removal of less than 0.5 hectares of native vegetation could have a significant impact on habitat for rare and threatened species.
- Extent of native vegetation The extent of any patches and scattered trees proposed to be removed (and the extent of any past native vegetation removal), with consideration as to whether the proposed removal includes any large trees. Extent of native vegetation is determined as follows:
 - **Patch** the area of the patch in hectares.
 - Scattered Tree the extent of a scattered tree is dependent on whether the scattered tree is small or large. A tree is considered to be a large tree if the DBH is greater than or equal to the large tree benchmark DBH for the relevant bioregional EVC. Any scattered tree that is not a



MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Page | 43 Authorised Officer: Jack Wiltshire Page: 88 of 221 SIGNED: large tree is a small scattered tree. The extent of large and small scattered trees is determined as follows:

- Large scattered tree the area of a circle with a 15 metre radius, with the trunk of the tree at the centre.
- Small scattered tree the area of a circle with a ten-metre radius, with the trunk of the tree at the centre.

The assessment pathway for assessing an application to remove native vegetation is subsequently determined as shown in the following matrix table:

Extent of notive vegetation	Location Category				
	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		

Note: If the native vegetation to be removed includes more than one location category, the higher location category is used to determine the assessment pathway.

Landscape scale information – strategic biodiversity value

The strategic biodiversity value (SBV) is a measure of a location's importance to Victoria's biodiversity, relative to other locations across the state. This is represented as a score between 0 and 1, and determined from the SBV map, available from *NVIM* (DELWP 2022c).

Landscape scale information - habitat for rare or threatened species

Habitat importance for rare or threatened species is a measure of the importance of a location in the landscape as habitat for a particular rare or threatened species, in relation to other habitat available for that species. This is represented as a score between 0 and 1 and determined from the Habitat importance maps, administered by DELWP.

This includes two groups of habitat:

- **Highly localised habitats** Limited in area and considered to be equally important, therefore having the same habitat importance score.
- **Dispersed habitats** Less limited in area and based on habitat distribution models.

Habitat for rare or threatened species is used to determine the type of offset required in the detailed assessment pathway.

Biodiversity value

A combination of site-based and landscape scale information is used to calculate the biodiversity value of native vegetation to be removed. Biodiversity value is represented by a general or species habitat score, as determined below.



MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Page | 44 Authorised Officer: Jack Wiltshire Page: 89 of 221 SIGNED: Firstly, the extent and condition of native vegetation to be removed are combined to determine the habitat hectares as follows:

Habitat hectares = extent of native vegetation × condition score

Secondly, the habitat hectare score is combined with a landscape factor to obtain an overall measure of biodiversity value. Two landscape factors exist as follows:

- General landscape factor determined using an adjusted strategic biodiversity score and relevant when no habitat importance scores are applicable;
- **Species landscape factor** determined using an adjusted habitat importance score for each rare or threatened species habitat mapped at a site in the Habitat importance map.

These factors are subsequently used as follows to determine the biodiversity value of a site:

General habitat score = habitat hectares × general landscape factor

Species habitat score = habitat hectares × species landscape factor

Offset requirements

A native vegetation offset is required for the approved removal of native vegetation. Offsets conform to one of two types and each type incorporates a multiplier to address the risk of offset:

• A general offset is required when the removal of native vegetation does not have a significant impact on any habitat for rare or threatened species (i.e. the proportional impact is below the species offset threshold). In this case a multiplier of 1.5 applies to determine the general offset amount.

General offset (amount of general habitat units) = general habitat score × 1.5

 A species offset is required when the removal of native vegetation has a significant impact on habitat for a rare or threatened species (i.e., the proportional impact is above the species offset threshold). In this case a multiplier of 2 applies to determine the species offset amount.

Species offset (amount of species habitat units) = Species habitat score × 2

Note: If native vegetation does not meet the definition of either a patch or scattered tree, an offset is not required.

Offset attributes

Offsets must meet the following attribute requirements, as relevant:

- General offsets
 - Offset amount general offset = general habitat score MAEEDON RANGES PLANNING SCHEME



 Image Don Ranges Planning Scheme

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- Strategic biodiversity value (SBV) the offset has at least 80% of the SBV of the native vegetation removed
- Vicinity the offset is in the same CMA boundary or municipal district as the native vegetation removed
- Habitat for rare and threatened species N/A
- Large trees the offset includes the protection of at least one large tree for every large tree to be removed
- Species offsets
 - Offset amount species offset = species habitat score × 2
 - Strategic biodiversity value (SBV): N/A
 - Vicinity: N/A
 - Habitat for rare and threatened species the offset comprises mapped habitat according to the Habitat importance map for the relevant species
 - Large trees the offset includes the protection of at least one large tree for every large tree to be removed





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

Tree no.	Common Name	Scientific Name	DBH (cm)	Habitat Category	Radius of TPZ (m)	Remove/Retain
1	Swamp Gum	Eucalyptus ovata		Small Scattered Tree		Remove
2	Swamp Gum	Eucalyptus ovata		Small Scattered Tree		Retain
3	Swamp Gum	Eucalyptus ovata		Small Scattered Tree		Retain

Notes: DBH = Diameter at breast height (130 cm from the ground); **TPZ** = Tree Protection Zone.





Appendix 3: Flora species recorded in the study area

Origin	Common name	Scientific name	EPBC	FFG	CaLP Act
*	Ribwort	Plantago lanceolata			
*	Flatweed	Hypochaeris radicata			
*	Yorkshire Fog	Holcus lanatus			
*	Sweet Vernal-grass	Anthoxanthum odoratum			
*	Onion Grass	Romulea rosea			
*	Blackberry	Rubus fruticosus spp. agg.			С
	Bidgee-widgee	Acaena novae-zelandiae			
	Blackwood	Acacia melanoxylon			
*	Cocksfoot	Dactylis glomerata			
	Joint-leaf Rush	Juncus holoschoenus			
	Common Raspwort	Gonocarpus tetragynus			
*	Hairy Hawkbit	Leontodon saxatilis subsp. saxatilis			
	Rush	Juncus spp.			
*	Toowoomba Canary-grass	Phalaris aquatica			
	Common Spike-sedge	Eleocharis acuta			
	Swamp Gum	Eucalyptus ovata			
	Black-anther Flax-lily	Dianella revoluta s.l.			
*	Ox-tongue	Helminthotheca echioides			
*	Radiata Pine	Pinus radiata			
	Finger Rush	Juncus subsecundus			
*	Paspalum	Paspalum dilatatum			
*	Cleavers	Galium aparine			
	Brown-back Wallaby-grass	Rytidosperma duttonianum			
*	Sheep Sorrel	Acetosella vulgaris			
*	Curled Dock	Rumex crispus			
*	Bearded Oat	Avena barbata			
	Couch	Cynodon spp.			
	Tree Violet	Melicytus dentatus s.s.			
*	Prunus	Prunus spp.			
	Grassy Club-sedge	Isolepis hookeriana			
*	Common Prickly-pear	Opuntia stricta			С
#	Southern Blue-gum	Eucalyptus globulus			

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 DELWP 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

= Victorian native taxa occurring outside the natural range



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Appendix 4: Fauna species recorded in the study area

Origin	Common name	Scientific name	EPBC-T	EPBC-M	FFG	
		Birds				
	Australian Raven	Corvus coronoides				
*	Eurasian Skylark	Alauda arvensis				
	Australian Magpie	Gymnorhina tibicen				
	Red Wattlebird	Anthochaera carunculate				
	Welcome Swallow	Hirundo neoxena				
	Australian White Ibis	Threskiornis Molucca				
	Rainbow Lorikeet	Trichoglossus moluccanus				
	Sulphur-crested Cockatoo	Cacatua galerita				
	Brown Thornbill	Acanthiza pusilla				
	Masked Lapwing	Vanellus miles				
	Little Corella	Cacatua sanguinea				
	Crimson Rosella	Platycercus elegans				
*	Common Starling	Sturnus vulgaris				
*	Common Blackbird	Turdus merula				
Mammals						
*	Brown Hare	Lepus europaeus				
		Amphibians				
	Eastern Common Froglet	Crinia signifera				

Notes: EPBC-T = Threatened species status under EPBC Act; **EPBC-M**: Migratory status under the EPBC Act (M = listed migratory taxa; Bonn Convention (A2H) – Convention on the Conservation of Migratory Species of Wild Animals – listed as a member of a family; Bonn Convention (A2S) – Convention on the Conservation of Migratory Species of Wild Animals – species listed explicitly; CAMBA – China-Australia Migratory Birds Agreement; JAMBA – Japan-Australia Migratory Birds Agreement; ROKAMBA – Republic of Korea Australia Migratory Birds Agreement); **FFG:** = Threatened species status under the FFG Act.

* = introduced to Victoria

= Victorian native taxa occurring outside their natural range



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Appendix 5: Photographs of native vegetation proposed for removal

All photographs were taken on 4th October 2022



Incidental Blackwood sapling to be removed



Pasture paddock populated by introduced grasses and some Native vegetation (<15%) MACEDON RANGES PLANNING SCHEME



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Swamp Gum to be removed.



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Appendix 6: EVC benchmarks

Higher rainfall Plains Grassy Woodland (EVC 55_63) - Victoria Volcanic Plain



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EVC/Bioregion Benchmark for Vegetation Quality Assessment

Victorian Volcanic Plain bioregion

EVC 55_63: Higher Rainfall Plains Grassy Woodland

Description:

An open, eucalypt woodland to 15 m tall or acacia/sheoak woodland to 10 m tall. Occupies poorly drained, fertile soils on flat or gently undulating plains at low elevations. The understorey consists of a few sparse shrubs over a species-rich grassy and herbaceous ground layer. This variant occupies areas receiving greater than 700 mm annual rainfall.

Large trees: Species Eucalyptus spp. Acacia melanoxy Allocasuarina ve	ylon erticillata	DBH(cm) 70 cm 40 cm 40 cm	#/ha 15 / ha		
Tree Canopy %cover 20%	Cover: Character Species <i>Eucalyptus ovata</i> <i>Eucalyptus viminalis</i> <i>Acacia melanoxylon</i> <i>Allocasuarina verticillata</i>			Commo Swamp Gu Manna Gu Blackwood Drooping S	o n Name im m I Sheoak
Understorey: Life form Immature Canop Understorey Tre Medium Shrub Small Shrub Prostrate Shrub Large Herb Medium Herb Small or Prostrat Large Tufted Gra Medium to Smal Medium to Smal Medium to Tiny Bryophytes/Lich Soil Crust	by Tree e or Large Shrub te Herb aminoid I Tufted Graminoid Non-tufted Graminoid ens Species typical of at leas <i>Acacia pycnantha</i> <i>Acacia paradoxa</i> <i>Pimelea humilis</i> <i>Astroloma humifusum</i> <i>Bossiaea prostrata</i> <i>Leptorhynchos squamatus</i> <i>Chysocephalum apiculatum</i> <i>Gonocarpus tetragynus</i> <i>Acaena echinata</i> <i>Dichondra repens</i> <i>Hydrocotyle laxiflora</i> <i>Austrostipa mollis</i> <i>Austrostipa bigeniculata</i> <i>Themeda triandra</i> <i>Poa morrisii</i> <i>Austrodanthonia setacea</i> <i>Austrodanthonia racemosa yar. ca</i>	#Sp 1 3 2 1 3 8 3 2 12 2 na na st part of EV	p 5 5 1 1 1 5 5 2 2 5 5 1 1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	%Cover % % <th>LF code IT T MS SS PS LH MH SH LTG MTG MNG BL S/C TOMON Name n Wattle e Wattle on Rice-flower erry Heath ing Bossiaea Buttons non Everlasting non Raspwort b's Burr y-weed ng Pennywort e Spear-grass d Spear-grass d Spear-grass d Spear-grass d Spear-grass d Spear-grass d Wallaby-grass</th>	LF code IT T MS SS PS LH MH SH LTG MTG MNG BL S/C TOMON Name n Wattle e Wattle on Rice-flower erry Heath ing Bossiaea Buttons non Everlasting non Raspwort b's Burr y-weed ng Pennywort e Spear-grass d Spear-grass d Spear-grass d Spear-grass d Spear-grass d Spear-grass d Wallaby-grass
MNG A	<i>Microlaena stipoides</i> var. <i>stipoides</i>	5	ſ		

Ecological Vegetation Class bioregion benchmark

EVC 55_63: Higher Rainfall Plains Grassy Woodland - Victorian Volcanic Plain bioregion

Organic Litter:

10 % cover

Logs:

10 m/0.1 ha.

Weediness:

LF Code	Typical Weed Species	Common Name	Invasive	Impact
MS	Lycium ferocissimum	African Box-thorn	high	high
LH	Čirsium vulgare	Spear Thistle	high	high
LH	Sonchus oleraceus	Common Sow-thistle	high	low
LH	Plantago lanceolata	Ribwort	high	low
MH	Hypochoeris radicata	Cat's Ear	high	low
LNG	Holcus lanatus	Yorkshire Fog	high	high
MTG	Vulpia bromoides	Squirrel-tail Fescue	high	low
MTG	Romulea rosea	Onion Grass	high	low
MTG	Briza minor	Lesser Quaking-grass	high	low
MTG	Briza maxima	Large Quaking-grass	high	low

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Appendix 7: Native Vegetation Removal (NVR) report



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Scenario test - native vegetation removal

This report provides offset requirements for internal testing of different proposals to remove native vegetation. This report DOES NOT support an application to remove, destroy or lop native vegetation under Clause 52.16 or 52.17 of planning schemes in Victoria. A report must be obtained from the Department of Environment, Land, Water and Planning (DELWP).

Date of issue: Time of issue:	05/10/2022 10:00 am		Report ID: Scenario Testing	
Project ID		22057_75Willowbank_Road_Removal_221005		

Assessment pathway

Assessment pathway	Basic Assessment Pathway				
Extent including past and proposed	0.031 ha				
Extent of past removal	0.000 ha				
Extent of proposed removal	0.031 ha				
No. Large trees proposed to be removed	0				
Location category of proposed removal	Location 1 The native vegetation is not in an area mapped as an endangered Ecological Vegetation Class (as per the statewide EVC map), sensitive wetland or coastal area. Removal of less than 0.5 hectares in this location will not have a significant impact on any habitat for a rare or threatened species				
1. Location map					
	MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshike Page: 102 of 221 SIGNED:				

Scenario test - native vegetation removal

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 ¹	0.006 general habitat units				
Vicinity	Port Phillip and Westernport Catchment Management Authority (CMA) or Macedon Ranges Shire Council				
Minimum strategic biodiversity value score ²	0.248				
Large trees	0 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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2 Minimum strategic biodiversity score is 80 per cent of the weighted average score across habitat zones

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

Scenario test - native vegetation removal

Next steps

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

This report DOES NOT support an application to remove, destroy or lop native vegetation under Clause 52.16 or 52.17 of planning schemes in Victoria.

If you wish to remove the mapped native vegetation you must submit the related shapefiles to the Department of Environment, Land, Water and Planning (DELWP) for processing, by email to ensymnvrtool.support@delwp.vic.gov.au. DELWP will provide a *Native vegetation removal report* that is required to meet the permit application requirements in accordance with *Guidelines for the removal, destruction or lopping of native vegetation* (Guidelines).



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Appendix 1: Description of native vegetation to be removed

All zones require a general offset, the general habitat units each 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 provided by or on behalf of the applicant in a GIS file				Information calculated by EnSym							
Zone	Туре	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV HI score score	Habitat units	Offset type
1-1	Scattered Tree	vvp_0055	Endangered	0	no	0.200	0.031	0.031	0.310	0.006	General
		Ç									

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshireage 4 Page: 105 of 221 SIGNED: Appendix 2: Information about impacts to rare or threatened species' habitats on site

This is not applicable in the Basic Assessment Pathway.

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



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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: 26/10/2022 01:46

Report ID: 16446

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What was searched for?

General offset

General habitat units	Strategic biodiversity value	Large trees	Vicinity (Catchment Management Authority or Municipal district)		
0.006	0.248	0	СМА	Port Phillip and Westernport	
			or LGA	Macedon Ranges Shire	

Details of available native vegetation credits on 26 October 2022 01:46

Credit Site ID	GHU	LT	СМА	LGA	Land owner	Trader	Fixed price	Broker(s)
BBA-0277	6.989	460	Port Phillip and Westernport	Mornington Peninsula Shire	No	Yes	No	Abezco, Ethos, VegLink
BBA-0670	17.745	147	Port Phillip and Westernport	Cardinia Shire	No	Yes	No	Abezco, VegLink
BBA-0677	16.505	1492	Port Phillip and Westernport	Whittlesea City	No	Yes	No	Abezco, VegLink
BBA-0678	46.086	2626	Port Phillip and Westernport	Nillumbik Shire	No	Yes	No	VegLink
BBA-0678_2	0.388	59	Port Phillip and Westernport	Nillumbik Shire	No	Yes	No	VegLink
BBA-0931	0.034	0	Port Phillip and Westernport	Moorabool Shire	Yes	Yes	No	Bio Offsets
BBA-2774	0.020	9	Port Phillip and Westernport	Greater Geelong City	Yes	Yes	No	VegLink
BBA-2789	1.317	14	Port Phillip and Westernport	Baw Baw Shire	Yes	Yes	No	Contact NVOR
BBA-2790	2.911	116	Port Phillip and Westernport	Baw Baw Shire	Yes	Yes	No	Contact NVOR
BBA-2832	0.333	0	Port Phillip and Westernport	Nillumbik Shire	Yes	Yes	Yes	Nillumbik SC
BBA-2853	0.010	46	Port Phillip and Westernport	Greater Geelong City	Yes	Yes	No	VegLink
BBA-2870	0.044	0	Port Phillip and Westernport	Yarra Ranges Shire	No	Yes	No	Contact NVOR
BBA-2870	2.544	431	Port Phillip and Westernport	Yarra Ranges Shire	MACEI DEVEL	oon R/ Opmen	ANGES NT PLAI	Planning Scheme N: DP/2009/12/C
					Date: 20/11/2023			
					Autho	rised O	fficer: J	ack Wiltshire

These sites meet your requirements for general offsets.

BBA-2871	16.335	1668	Port Phillip and Westernport	Yarra Ranges Shire	Yes	Yes	No	VegLink
BBA-3030	2.271	0	Port Phillip and Westernport	Moorabool Shire	Yes	Yes	No	VegLink
BBA-3030	0.324	0	Port Phillip and Westernport	Moorabool Shire	Yes	Yes	Yes	VegLink
BBA-3030	0.326	0	Port Phillip and Westernport	Moorabool Shire	No	Yes	No	Contact NVOR
TFN-C0287	0.158	0	Port Phillip and Westernport	Cardinia Shire	Yes	Yes	No	TFN
TFN-C1636	0.976	130	Port Phillip and Westernport	Yarra Ranges Shire	No	Yes	No	Yarra Ranges SC
TFN-C1650	0.098	20	Port Phillip and Westernport	Yarra Ranges Shire	Yes	Yes	Yes	Yarra Ranges SC
TFN-C1663	0.109	27	Port Phillip and Westernport	Yarra Ranges Shire	Yes	Yes	Yes	Yarra Ranges SC
TFN-C1664	2.556	65	Port Phillip and Westernport	Yarra Ranges Shire	Yes	Yes	No	Yarra Ranges SC
TFN-C1667	0.028	0	Port Phillip and Westernport	Yarra Ranges Shire	Yes	Yes	No	Yarra Ranges SC
TFN-C1763_3	11.231	0	Port Phillip and Westernport	Mornington Peninsula Shire	Yes	Yes	No	Ecocentric
TFN-C1854	0.251	0	North Central	Macedon Ranges Shire	No	Yes	No	VegLink
TFN-C1962	0.098	9	Goulburn Broken, Port Phillip and Westernport	Macedon Ranges Shire	No	Yes	No	Contact NVOR
TFN-C1962_2	0.011	0	Goulburn Broken, Port Phillip and Westernport	Macedon Ranges Shire	No	Yes	No	VegLink
TFN-C1980	0.019	0	Port Phillip and Westernport	Mornington Peninsula Shire	Yes	Yes	No	Ecocentric
VC_CFL- 0838_01	0.209	697	Port Phillip And Westernport	Yarra Ranges Shire	Yes	Yes	No	VegLink
VC_CFL- 3016_01	0.192	35	Port Phillip And Westernport	Yarra Ranges Shire	Yes	Yes	No	VegLink
VC_CFL- 3084_01	0.464	353	Port Phillip And Westernport	Cardinia Shire	Yes	Yes	No	VegLink
VC_CFL- 3084_02	0.040	40	Port Phillip And Westernport	Cardinia Shire	Yes	Yes	No	VegLink
VC_CFL- 3682_01	1.695	0	Port Phillip And Westernport	Nillumbik Shire	Yes	Yes	No	Abezco
VC_CFL- 3687_01	0.411	72	Port Phillip And Westernport	Baw Baw Shire	Yes	Yes	No	Baw Baw SC
VC_CFL- 3705_01	0.008	3	Port Phillip And Westernport	Melton City	Yes	Yes	No	VegLink
VC_CFL- 3708_01	0.199	511	Port Phillip And Westernport	Yarra Ranges Shire	Yes	Yes	No	VegLink
VC_CFL- 3709_01	0.139	395	Port Phillip And Westernport	Yarra Ranges Shire	Yes	Yes	No	VegLink
VC_CFL- 3729_01	0.016	6	Port Phillip And Westernport	Melton City	Yes	Yes	No	VegLink
VC_CFL- 3740_01	1.756	96	Port Phillip And Westernport	Cardinia Shire, Yarra Ranges Shire	Yes	Yes	No	Bio Offsets
VC_CFL- 3740_01	0.364	22	Port Phillip And Westernport	Yarra Ranges Shire	Yes	Yes	No	Bio Offsets
VC_CFL- 3744_01	2.428	377	Port Phillip And Westernport	Macedon Ranges Shire	Yes			
VC_CFL- 3762_01	0.408	106	Port Phillip And Westernport	Moorabool Shire	DĚŶEL	.OPME		N ² 0P/2009/12/C
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VC_CFL- 3762_01	0.175	0	Port Phillip And Westernport	Moorabool Shire	Yes	Yes	Yes	VegLink
VC_CFL- 3764_01	12.037	55	Port Phillip And Westernport	Yarra Ranges Shire	Yes	Yes	No	VegLink
VC_CFL- 3769_01	2.617	77	Port Phillip And Westernport	Nillumbik Shire	Yes	Yes	No	VegLink

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

Credit Site ID	GHU	LT	СМА	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- 3710_01	7.606	322	Port Phillip And Westernport	Yarra Ranges Shire	Yes	Yes	No	VegLink
VC_CFL- 3746_01	4.962	563	Port Phillip And Westernport	Macedon Ranges Shire	Yes	Yes	No	VegLink
VC_CFL- 3773_01	10.128	1262	North Central	Macedon Ranges Shire	Yes	Yes	No	VegLink

LT - Large Trees

CMA - Catchment Management Authority

LGA - Municipal District or Local Government Authority



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

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

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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

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 112 of 221 SIGNED:



Arboricultural Impact Assessment and Report

Assessment of Trees at 75 Willowbank Road, Gisborne

Report Details	
Client:	Ecko No 3 C/o Axiom Consulting Engineers
	6 Webster Street, Ballarat, Vic, 3350
Responsible Authority:	Macedon Ranges Shire Council
Subject site details:	75 Willowbank Road, Gisborne
Date of assessment	Thursday, 29 September 2022
Date of report:	Wednesday, 16 November 2022
Planning permit details:	
Plans, maps or other construction	Feature survey provided by Swanson Surveying – File Ref: 12082 FS01V1
information:	Tree removal/Protection Plan provided by Axiom Consulting Engineers -
	985PL-01
Other relevant Arborist, Ecology or	Flora and Fauna Assessment prepared by Nature Advisory (Date: October
Development Impact Reports:	2022, Report No: 22057.01(1.0).
Axiom Tree Management Job Number:	11056
Prepared By:	Tim Cameron - Consulting Arborist/Director
	Email: <u>timcameron@axiomtrees.com</u>
	Qualifications:
	-Graduate Certificate Arboriculture
	-Diploma Horticulture (Arboriculture) – AQF Level 5
Reviewed By:	Robyn Cameron – Axiom Tree Management
	Administration Co-ordinator
Axiom Tree Management	Axiom Tree Management Pty Ltd
Business Information	(Office Address) Office 2/ 8 Sauer Rd, New Gisborne VIC 3438
	(Postal Address) 48 Montgomerys Lane, Woodend 3442
	Ph: 0428 896 951
	ABN: 11 612 205 099

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Axiom Tree Management Pty Ltc ABN: 11 612 205 099 ABN: 11 612 205 099 Authorised Officer: Jack Wiltshire Page: 113 of 221 SIGNED:



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1 Summary

An Arboricultural Impact Assessment and Report has been undertaken to determine the impact to trees at 75 Willowbank Road, Gisborne. The report provides an overview of the site characteristics, relevant planning controls, condition, longevity, retention value of the trees. The also provides tree protection measures in accordance with AS4970-2009 and an assessment of the impact of the proposed development.

The subject site is a large semi-rural property covering approximately 6 hectares. The front of the site is accessed from Willowbank Road and contains a large single storey brick dwelling, tennis court, outbuildings, gravel driveway and established gardens. The rear of the site consists of introduced pasture grass previously mown or grazed by animals. The site slopes to the south and is predominately bordered by recently constructed residential properties.

- The assessed trees are primarily located within the subject site around the dwelling and along the boundaries. Of the two hundred and thirty (230) trees assessed, the location of trees include:
 - \circ Trees numbered 62, 63, 92, 93, and 103-110 are located within adjoining properties; and
 - Trees numbered 1-61, 64-91, 94-102 and 111-230 are located within the subject site. 0
- Of the two hundred and thirty (230) trees assessed at and adjoining the subject site, the trees consisted of predominately exotic specimens.
- The health of most of the trees is 'Good' or 'Fair.
 - Most of the trees are semi-mature specimens that are growing favourable growing conditions. 0
 - o Trees along the open drain to the northeast have reduced health ratings due to waterlogging and past excavation.
- The structure of most of the trees is 'Fair'.
 - Most of the trees are semi-mature common species that have been selected for their hardy nature and consistent 0 low maintenance form with no major defects.
 - o Mature trees along the front of the property have been growing together for many decades with some being suppressed or exhibiting major leans due to competition for light and space.
- The trees are long-lived species and have the potential to live for many decades provided conditions do not change significantly. Most of the trees are a long lived species that have the potential to live for many decades.
- Three retention values have been considered, consisting of 'High', 'Medium' and 'Low'.
 - Ten trees (10) have been assigned High retention value; 0
 - One hundred and twenty-two trees (122) have been assigned 'Medium' retention value; and 0
 - Ninety eight trees (98) have been assigned 'Low' retention value. Ο

The proposal includes subdivision of the site into 2 Lots, installation of a stormwater pipe along the northeast boundary, removal of specified vegetation and specifications of vehicle crossings to future lots along Willowbank Road.

Removal of Vegetation

- It is proposed to remove one hundred and fifty-four (154) trees from within the subject site to allow for subdivision of the site into 2 Lots, installation of stormwater and future driveway construction. Proposed tree removal includes:
- It is proposed to retain and protect seventy-six (76) trees as part of subdivision of the site into 2 Lots, installation of stormwater and future driveway construction.

Construction of Driveways

Construction of Crossovers and driveways will be required to access future dwellings from Willowbank Road. A concrete footpath has recently been construction within the road reserve and additional construction to match existing levels within the road reserve is unlikely to impact adjoining trees. Construction of the driveways is proposed is proposed to be at or near grade and constructed of porous/permeable material.

Stormwater Installation

- It is proposed to install a stormwater along the northeast of the site which has the potential to impact trees. Trees numbered 62 and 63 are located within the adjoining property to the east and their canopies and TPZ extend into the subject site by a considerable amount. Locating the proposed stormwater outside the TPZ (<10% encroachment) or boring to a depth greater than 750mm below existing ground level will be required. A large open drain is present within this area and boring will need to consider this drain and the final bore depth.
- Installation of the stormwater will be required within the TPZ of Trees numbered 59 and 60. Tree number 61 is proposed to be removed due to its very poor condition and non-destructive root investigation will be required to ensure roots from the retained trees are not damaged or removed. Development of a Tree Protection Management Plan in conjunction with detailed design should be undertaken to ensure the impact to trees is minor

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Axiom Tree Management Pty Ltd Authorised Officer: Jack Witshire full Page: 115 of 221 SIGNED:



2 Introduction

Axiom Tree Management Pty Ltd has been engaged by Ecko No 3 C/o Axiom Consulting Engineers to provide a report on trees at 75 Willowbank Road, Gisborne. It is proposed to subdivide the site and an assessment and report has been requested to assist with planning.

2.1 Key Objectives

As part of the report the key objectives include:

- Identify and record the dimensions of trees on and adjoining the site;
- To identify any relevant local laws, planning controls that may be relevant to the site;
- Provide an assessment of the health, structure, longevity and retention value of the tree specimens;
- Provide and assessment of the impact of the proposed subdivision and associated infrastructure; and
- Provide tree mitigation and protection measures in accordance with AS 4970 2009 for retained trees.

2.2 Documents Viewed

The following reports and documents have been reviewed as part of the preparation of this report including:

- Tree removal/Protection Plan provided by Axiom Consulting Engineers 985PL-01;
- Feature survey provided by Swanson Surveying File Ref: 12082 FS01V1;
- Flora and Fauna Assessment provided by nature Advisory Date: October 2022, Report No: 22057.01(1.0)
- Vic Plan Department of Environment, Land, Water and Planning (DELWP) (<u>https://mapshare.vic.gov.au/vicplan/</u>);
- Aerial Image data for the site accessed from https://www.nearmap.com/au/en;
- AS 4970:2009 Protection of Trees on Development Sites;
- AS 4373:2007 Pruning of Amenity Trees.

2.3 Planning Controls

- The site is located within the Macedon Ranges Shire Council and is in a General Residential Zone (GRZ1);
- The site is covered by a Development Contributions Plan Overlay (DCPO2) and Development Plan Overlay (DPO4);
- No local laws that restrict removal or pruning of trees are present;
- The site is not within a Designated Bushfire Prone Area (Clause 52.12) and no exemptions apply;
- Native vegetation regulations (Clause 52.17 of the planning scheme) are present in Victoria and are primarily implemented through local council planning schemes.
 - o The site is greater than 0.4 hectares and exemptions for site area do not apply; and
 - Native vegetation is present at the site and is addressed in the Flora and Fauna Assessment prepared by Nature Advisory (Date: October 2022, Report No: 22057.01(1.0).

2.4 Site Methodology

On Thursday, 29 September 2022, Tim Cameron and Daniel McWilliam conducted a site inspection. Data collected for the trees included but was not limited to:

- Botanical Name;
- Diameter at Breast Height (DBH);
- Retention Value;

- Canopy Dimensions (estimated);
- Health and Structure;
- Useful Life Expectancy (ULE).

Additional methodology includes:

- Assessments were conducted from ground level, with no instruments other than a diameter tape to measure DBH;
- A detailed visual inspection of the tree/s and the surrounding site was conducted, including a complete walk around the tree, looking at the buttress roots, trunk, branches, and leaves;
- Trees were assessed and located using differentially corrected GPS (generally +/- 1.0m accuracy) and aligned to locations provided in the feature survey.

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3 Subject Site

3.1 Site Description

The subject site is a large semi-rural property covering approximately 6 hectares. The front of the site is accessed from Willowbank Road and contains a large single storey brick dwelling, tennis court, outbuildings, gravel driveway and established gardens (Figure 1 & Figure 2). The rear of the site consists of introduced pasture grass previously mown or grazed by animals. The site slopes to the south and is predominately bordered by recently constructed residential properties. The assessed trees are primarily located within the subject site around the dwelling and along the boundaries. Of the two hundred and thirty (230) trees assessed, the location of trees include:

- Trees numbered 62, 63, 92, 93, and 103-110 are located within adjoining properties; and
- Trees numbered 1-61, 64-91, 94-102 and 111-230 are located within the subject site.

Trees within adjoining properties have been assessed where their TPZ has the potential to encroach into the subject site.



Figure 1. Subject site from the south looking north showing open grassed area, trees along boundaries and dwelling.



Figure 2. Brick dwelling from the south east looking northwest 纳姆道理的改制的常体代码ES PLANNING SCHEME

Axiom Tree Management Pty Ltd

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4 **Trees Details**

4.1 **Species Composition**

Of the two hundred and thirty (230) trees assessed at and adjoining the subject site, the trees consisted of predominately exotic specimens. Most of the trees consist of Pinus radiata which from North America (California). Although restricted in its natural range, the species has been widely planted for timber in SE Australia and has become an environmental weed in many areas. The species has been planted at the site for screening around the time of construction of the dwelling. A row of large mature exotic specimens including Quercus robur, Ulmus x hollandica, Ulmus x hollandica, Pinus pinaster and Quercus cerris are located along the front of the property and may be up to 100 years in age.

Table 1. Species composition.						
Botanical Name	Common Name	Status	Count			
Pinus radiata	Monterey Pine	Exotic	130			
Platanus Xacerifolia	London Plane	Exotic	19			
Quercus palustris	Pin Oak	Exotic	14			
Eucalyptus ovata	Swamp Gum	Indigenous	9			
Eucalyptus bicostata	Eurabbie	Victorian native	6			
Cupressus sempervirens	Italian Cypress	Exotic	4			
Quercus robur	English Oak	Exotic	4			
Liriodendron tulipifera	Tulip Tree	Exotic	3			
Acer rubrum	Red Maple	Exotic	3			
Quercus cerris	Turkey Oak	Exotic	3			
Acacia melanoxylon	Blackwood	Indigenous	2			
Liquidambar styraciflua	Liquidamber	Exotic	2			
Phoenix canariensis	Canary Island Date Palm	Exotic	2			
Eucalyptus cladocalyx	Sugar Gum	Non-Victorian Native	2			
Morus nigra	Black Mulberry	Exotic	2			
Betula pendula	Silver Birch	Exotic	2			
Ulmus X hollandica	Dutch Elm	Exotic	2			
Magnolia grandiflora	Bull Bay	Exotic	1			
Fraxinus excelsior 'Aurea'	Golden Ash	Exotic	1			
Juglans regia	Walnut	Exotic	1			
Juniperus scopulorum 'Blue Arrow'	Blue Rocky Mountain Juniper	Exotic	1			
Eriobotrya japonica	Loquat	Exotic	1			
Eucalyptus globulus	Blue Gum	Victorian native	1			
Malus domestica	Apple	Exotic	1			
Malus sp.	Apple	Exotic	1			
Morus alba 'Pendula'	Weeping Mulberry	Exotic	1			
Unknown sp.	Unknown	Exotic	1			
Olea europaea	European Olive	Exotic	1			
Pinus pinaster	Maritime Pine	Exotic	1			
Populus alba 'Pyramidalis'	White Fastigiate Poplar	Exotic	1			
Prunus cerasifera	Cherry Plum	Exotic	1			
Prunus sp.	Plum	Exotic	1			
Quercus canariensis	Algerian Oak	Exotic	1			
Salix babylonica	Weeping Willow	Exotic	1			
Thuja occidentalis	White Cedar	Exotic	1			
Ulmus glabra 'Camperdownii'	Weeping Elm	Exotic	1			
Ulmus parvifolia	Chinese Elm	Exotic	1			
Morus alba	Mulberry	Exotic	1			
Total			230			

4.2 Health

The health of most of the trees is 'Good' or 'Fair. The assessment of health has been assigned based on several factors including canopy growth and density, presence of pest or disease, presence of dead branches considering the time of year and typical form of the species. Most of the trees are semi-mature specimens that are growing favourable growing conditions. Trees along the open drain to the northeast have reduced health ratings due to waterlogging and past excavation.

4.3 Structure

The structure of most of the trees is 'Fair'. Most of the trees are semi-mature common species that have been selected for their hardy nature and consistent form. Most trees are relatively low maintenance species with no major defects. Mature trees along the front of the property have been growing together for many decades with some being suppressed or exhibiting major leaps due to competition for light and space exhibiting major leans due to competition for light and space.

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4.4 Useful Life Expectancy (ULE)

The ULE of a tree is assigned by the assessor based on many factors including species longevity, suitability to the site and current age and condition both regarding health and structure. It is an estimation of how long a tree can provide amenity in the landscape at an acceptable level of risk. Most of the trees are a long lived Eucalyptus species that have the potential to live for many decades. The trees are long-lived species and have the potential to live for many decades provided conditions do not change significantly. Most of the trees are a long lived species that have the potential to live for many decades.

Table 2. Health, structure, and other fattings.								
Health/Structure Range	Health Count	Structure Count	ULE ratings	ULE				
Good	196	83	20+ years	132				
Fair	26	116	10-20 years	57				
Poor	2	31	5-10 years	33				
Very poor/Dead/Failed	6	0	0-5 years	8				
Total	230	230	Total	230				

Table 2. Health, structure, and ULE ratings

4.5 Recommended Arboricultural Works

Pruning and removal works have been recommended for five trees (5) regardless of future development (Table 2). Qualified arborists should carry out all pruning works. The minimum qualification should be Certificate in Horticulture (Arboriculture) AQF Level 3. All pruning should conform to the Australian Standard Pruning of Amenity Trees (AS 4373-2007).

		Tuble 2.	Recon	inchaca prai	ing und removal works.	
ID	Botanical Name	H x W	DBH	ULE	Recommended works	Comments
			(cm)			
5	Quercus palustris	14m x 8m	40	20+ years	Codominant reduction	Reduce stem to south by 25%
11	Acer rubrum	6m x 1m	9	20+ years	Formative prune	Remove codominant
17	Quercus palustris	14m x 8m	55	20+ years	Hanging branch removal	
48	Quercus robur	19m x 20m	96	20+ years	Deadwood removal	Deadwood over driveway
61	Pinus pinaster	24m x 8m	126	1-5 years	Removal	Tree in severe decline

Table 2. Recommended pruning and removal works.

5 Retention Rating

Three retention values have been considered, consisting of 'High', 'Medium' and 'Low'. Retention value considers tree size and condition, ULE, contribution to landscape and individual tree significance and they provide useful information to planners, regarding which trees are considered worthy of protection in the design phase. Table 3 gives a breakdown of retention values across the site.

Table 3. Rete	ention Values
Retention Value	Count
High	10
Medium	122
Low	98
Total	230

5.1 High Retention

Ten trees (10) have been assigned High retention value. High retention trees are well suited to the site and offer amenity. They are normally in 'Good' to 'Fair' health and have 'Good' to 'Fair' structure. The ULE should be at least the same as the design life of any new buildings.

5.2 Medium Retention

One hundred and twenty-two trees (122) have been assigned 'Medium' retention value. The trees are moderate or large sized specimens with a general condition rating of fair. If designing around these trees is not feasible or practical, removal and replacement would be an acceptable compromise.

5.3 Low Retention

Ninety eight trees (98) have been assigned 'Low' retention value. Low retention value trees are either young or semi mature common varieties that are easily replaceable or are dead and require removal. Trees in poor health or with significant defects in structure are not suitable for preservation in areas where people or structures will be located (Matheny & Clark, 1998).





6 **TPZ Specifications**

Regardless of tree condition or retention value, any tree selected to be retained requires protection during construction. The best way to protect retained trees as part of any development is by establishing a tree protection zone (TPZ). TPZs have been calculated according to *Protection of Trees on Development Sites* (AS 4970-2009) for all trees to be retained calculating the TPZ as 12 times the trunk diameter at 1.4m above ground level (DBH). The TPZ fence is designed to act as a physical barrier of protective fencing. It is erected around retained specimens (at the edge of the TPZ or where specified by the Arborist) before site works commence. Activities excluded from the TPZ include but are not limited to-

- machine excavation including trenching (unless on approved plans);
- cultivation;
- preparation of chemicals, including cement products;
- refuelling;
- wash down and cleaning of equipment;
- lighting of fires;
- temporary or permanent installation of utilities and signs;

6.1 Encroachment

Encroachment into the TPZ of trees is allowed under certain circumstances depending on several factors including site and tree conditions.

Encroachment Less Than 10%

Encroachment of less than 10% of the TPZ and outside the SRZ is deemed to be minor encroachment according to AS 4970-2009. Detailed root investigations should not be required but must be compensated with an extension to the TPZ elsewhere (Figure 6 & Figure 7). Variations must be made by the project arborist considering other relevant factors including tree health, vigour, stability, species sensitivity and soil characteristics.







excavation for silt fencing;

parking of vehicles and plant;

physical damage to the tree/s.

dumping of waste;

placement of fill;

soil level changes;

storage;

Figure 4. Example of TPZ encroachment and compensatory offset (image from AS 4970-2009)

Encroachment Greater Than 10%

Encroachment of more than 10% of the TPZ or into the SRZ will require the project arborist to demonstrate that the tree(s) will remain viable. The area lost to this encroachment should be compensated for elsewhere and contiguous with the TPZ. This may require root investigation by non-destructive methods and consideration of relevant factors tree health, vigour, stability, species sensitivity and soil characteristics.

6.2 SRZ

The SRZ is the minimum volume of roots required by the tree to remain stable in the ground. If the SRZ is breached the chances of windthrow are significantly increased, especially if roots are cut on the same side as prevailing winds. Windthrow is an event where the entire tree fails/falls over. Often, the tree is completely uprooted with devastating results. It is important to note that the SRZ is not related to tree health. It refers to the physical volume of roots required for the tree to remain stable in the ground. It is in no way related to the physiological requirements of the tree but is the minimum volume of roots required for the tree to remain standing.





7 **Construction Impact and Tree Protection Measures**

7.1 **Design Proposal**

The proposal includes:

- Subdivision of the site into 2 Lots;
- Installation of a stormwater pipe along the northeast boundary;
- Removal of specified vegetation; and
- Specifications of vehicle crossings to future lots along Willowbank Road.

7.2 **Construction Impact**

Construction into the TPZs of trees is allowed (AS 4970 2009). The level of encroachment is based upon the percentage of TPZ area intruded upon with less than 10% encroachment considered minor and greater than 10% encroachment considered major. Minor encroachment is considered acceptable with some modification of the TPZ, whereas mitigation measures/alternative designs are required for trees with major encroachment.

Based on the current plans, the tree removal/retention and construction impact include:

Removal of Vegetation

- It is proposed to remove one hundred and fifty-four (154) trees from within the subject site to allow for subdivision of the site into 2 Lots, installation of stormwater and future driveway construction. Proposed tree removal includes:
 - One hundred and twenty-seven trees (127) Pinus radiata which have been planted along the boundary; 0
 - Trees numbered 64 and 65 proposed for removal are Acacia melanoxylon which are dead, less than 40cm 0 diameter at 1.3m and exempt from the requirements of Clause 52.17 of the planning scheme;
 - Tree number 91 is a Eucalyptus ovata which is native to the local area and will require a permit to remove which is 0 outlined in the Flora and Fauna assessment;
 - Tree number 61 is a large Pinus pinaster and removal has been recommended due to the trees very poor 0 condition and high likelihood of failure;
 - Tree number 44 is a moderately sized exotic specimen that has been previously lopped and is recommended for 0 removal to reduce the impact to larger significant trees from driveway construction;
 - The remaining trees are relatively young or self-sown exotic trees. 0
- It is proposed to retain and protect seventy-six (76) trees as part of subdivision of the site into 2 Lots, installation of stormwater and future driveway construction.

	Encroachment										
Retention Value	Proposed removal	Proposed retention									
High	1	9	10								
Medium	75	47	122								
Low	78	20	98								
Total	154	76	230								

Table 3 Tree removal and retention summary

Construction of Driveways

Construction of Crossovers and driveways will be required to access future dwellings from Willowbank Road. A concrete footpath has recently been construction within the road reserve and additional construction to match existing levels within the road reserve is unlikely to impact adjoining trees. Construction of the driveways is proposed is proposed to be at or near grade and constructed of porous/permeable material. Specification for crossover and driveway construction include:

- Driveway/crossover construction within the TPZ area is to be constructed at or near grade using porous/permeable material with no greater than 150mm cut/scrape permitted for preparation;
- Cut/scrape for preparation is to be dug by hand or with excavation equipment no greater than 3 ton in operating weight within TPZ areas to reduce the likelihood of root damage;
- Where surface roots are identified, the finished soil level is to be raised (no greater than 150mm) to reduce the probability of root damage;
- Where large amounts of battering/fill is required greater than 150mm, alternative design methods/materials will be required to reduce the impact on trees.

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Stormwater Installation

It is proposed to install a stormwater along the northeast of the site which has the potential to impact trees. Trees numbered 62 and 63 are located within the adjoining property to the east and their canopies and TPZ extend into the subject site by a considerable amount. Locating the proposed stormwater outside the TPZ (<10% encroachment) or boring to a depth greater than 750mm below existing ground level will be required. A large open drain is present within this area and boring will need to consider this drain and the final bore depth.

Installation of the stormwater will be required within the TPZ of Trees numbered 59 and 60. Tree number 61 is proposed to be removed due to its very poor condition and non-destructive root investigation will be required to ensure roots from the retained trees are not damaged or removed. Development of a Tree Protection Management Plan in conjunction with detailed design should be undertaken to ensure the impact to trees is minor. General specifications for underground service installation includes:

- Boring is to be explored where services occur within the TPZs greater than 10%;
- Entry/exit pits and boring machines must be located outside TPZ areas;
- Boring should be greater than 600mm below existing grade and consider existing ground conditions and levels;
- Where boring is not practical, non-destruction root excavation (Hydro excavation) under supervision from a qualified Arborist (AQF level 5) may be used. No roots greater than 50mm are permitted to be removed or destroyed. Roots less than 50mm must be cleanly at the time of excavation.

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8 Tree Data and Plans

8.1 Individual Tree Assessment Spreadsheet

ID	Botanical Name	Common Name	Origin	Age	Planted/	H x W	DBH	Health	Structure	ULE	Retention	TPZ (m	SRZ (m	Comments	Retain/
					Self-sown		(cm)				Value	radius)	radius)		remove
1	Phoenix canariensis	Canary Island Date Palm	Exotic	Semi mature	Planted	9m x 8m	90	Good	Fair	20+ years	Medium	5	3.30		Retain
2	Thuja occidentalis	White Cedar	Exotic	Semi mature	Planted	5m x 2m	15	Good	Good	20+ years	Medium	2	1.55		Retain
3	Liriodendron tulipifera	Tulip Tree	Exotic	Semi mature	Planted	8m x 4m	20	Good	Good	20+ years	Medium	2.4	1.75		Retain
4	Quercus palustris	Pin Oak	Exotic	Semi mature	Planted	14m x 8m	45	Good	Fair	20+ years	Medium	5.4	2.46		Retain
5	Quercus palustris	Pin Oak	Exotic	Semi mature	Planted	14m x 8m	40	Good	Poor	20+ years	Medium	4.8	2.34	Reduce stem to south by 25%	Retain
6	Acer rubrum	Red Maple	Exotic	Young	Planted	8m x 3m	13	Good	Fair	20+ years	Low	2	1.50		Retain
7	Ulmus parvifolia	Chinese Elm	Exotic	Semi mature	Planted	10m x 4m	26	Good	Fair	20+ years	Medium	3.12	1.96		Retain
8	Liquidambar styraciflua	Liquidamber	Exotic	Young	Planted	10m x 3m	14	Good	Good	20+ years	Low	2	1.51		Retain
9	Morus alba 'Pendula'	Weeping Mulberry	Exotic	Young	Planted	3m x 3m	12	Good	Good	20+ years	Low	2	1.50		Retain
10	Liquidambar styraciflua	Liquidamber	Exotic	Young	Planted	7m x 2m	10	Good	Good	20+ years	Low	2	1.50		Retain
11	Acer rubrum	Red Maple	Exotic	Young	Planted	6m x 1m	9	Good	Poor	20+ years	Low	2	1.50	Remove codominant	Retain
12	Magnolia grandiflora	Bull Bay	Exotic	Semi mature	Planted	5m x 4m	10	Fair	Fair	10-20 years	Medium	2	1.50		Retain
13	Cupressus sempervirens	Italian Cypress	Exotic	Semi mature	Planted	3m x 1m	10	Good	Fair	10-20 years	Low	2	1.50		Retain
14	Cupressus sempervirens	Italian Cypress	Exotic	Semi mature	Planted	3m x 1m	10	Good	Fair	10-20 years	Low	2	1.50		Retain
15	Liriodendron tulipifera	Tulip Tree	Exotic	Semi mature	Planted	11m x 3m	19	Good	Fair	10-20 years	Low	2.28	1.71		Retain
16	Liriodendron tulipifera	Tulip Tree	Exotic	Semi mature	Planted	10m x 5m	21	Good	Fair	10-20 years	Medium	2.52	1.79		Retain
17	Quercus palustris	Pin Oak	Exotic	Semi mature	Planted	14m x 8m	55	Good	Fair	20+ years	Medium	6.6	2.68		Retain
18	Morus nigra	Black Mulberry	Exotic	Semi mature	Planted	5m x 5m	23	Fair	Fair	10-20 years	Medium	2.76	1.86	Possibly Maclura pomifera	Retain
19	Fraxinus excelsior 'Aurea'	Golden Ash	Exotic	Semi mature	Planted	9m x 9m	18	Good	Good	20+ years	Medium	2.16	1.68		Retain
20	Quercus palustris	Pin Oak	Exotic	Semi mature	Planted	14m x 7m	40	Good	Good	20+ years	Medium	4.8	2.34		Retain
21	Betula pendula	Silver Birch	Exotic	Semi mature	Planted	11m x 3m	16	Fair	Fair	10-20 years	Medium	2	1.60		Retain
22	Phoenix canariensis	Canary Island Date Palm	Exotic	Semi mature	Planted	7m x 7m	100	Good	Good	20+ years	Medium	4.5	3.44		Retain
23	Ulmus glabra 'Camperdownii'	Weeping Elm	Exotic	Semi mature	Planted	4m x 7m	32	Good	Good	20+ years	Medium	3.84	2.13		Retain
24	Salix babylonica	Weeping Willow	Exotic	Semi mature	Planted	7m x 7m	31	Good	Fair	10-20 years	Medium	3.72	2.11		Retain
25	Malus sp.	Apple	Exotic	Semi mature	Planted	4m x 5m	20	Good	Fair	, 10-20 years	Low	2.4	1.75		Remove
26	Quercus robur	English Oak	Exotic	Semi mature	Planted	7m x 5m	23	Good	Good	20+ years	Medium	2.76	1.86		Retain
27	Juglans regia	Walnut	Exotic	Semi mature	Planted	5m x 8m	27	Good	Good	20+ years	Medium	3.24	1.99		Retain
28	Betula pendula	Silver Birch	Exotic	Semi mature	Planted	6m x 3m	15	Good	Poor	10-20 years	Low	2	1.55		Remove
29	Morus nigra	Black Mulberry	Exotic	Semi mature	Planted	2m x 2m	11	Good	Fair	20+ years	Low	2	1.50		Remove
30	Populus alba 'Pyramidalis'	White Fastigiate Poplar	Exotic	Mature	Planted	14m x 4m	35	Good	Fair	20+ years	Medium	4.2	2.22		Remove
31	Quercus palustris	Pin Oak	Exotic	Young	Planted	6m x 3m	13	Good	Good	20+ years	Low	2	1.50		Remove
32	Quercus palustris	Pin Oak	Exotic	Young	Planted	5m x 1m	10	Fair	Good	20+ years	Low	2	1.50		Remove
33	Quercus palustris	Pin Oak	Exotic	Young	Planted	5m x 2m	13	Fair	Good	20+ years	Low	2	1.50		Remove
34	Unknown sp.	Unknown	Exotic	Young	Planted	4m x 4m	18	Good	Fair	10-20 years	Low	2.16	1.68		Retain
35	Morus alba	Mulberry	Exotic	Semi mature	Planted	3m x 2m	9	Fair	Fair	10-20 years	Low	2	1.50		Retain
36	Cupressus sempervirens	Italian Cypress	Exotic	Semi mature	Planted	9m x 1m	15	Good	Good	20+ years	Medium M	ACEDO	DN RA	NGES PLANNING SCI	Retain

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37 Cupressus sempervirens Italian Cypress Exotic Semi-mature Planted 8m x 1m 14 Good Good 20+ years Medium 2 151	Retain
Si cupressus sempervirensi italian cypressi Exotic Semi matare inantea on x in 14 0000 0000 201 years incatani 2 1.51	
38 Eriobotrya japonica Loquat Exotic Semi mature Planted 4m x 3m 15 Good Good 20+ years Low 2 1.55	Retain
39 Prunus sp. Plum Exotic Semi mature Planted 4m x 3m 15 Fair 10-20 years Low 2 1.55 3 x fruit	es Remove
40 Olea europaea European Olive Exotic Semi mature Planted 5m x 3m 18 Fair Fair 10-20 years Low 2.16 1.68 5 fruit tro	s-Olive, apple and Remove
41 Malus domestica Apple Exotic Semi mature Planted 5m x 4m 15 Fair 10-20 years Low 2 1.55 5 fruit true	s ape and pear Remove
42Juniperus scopulorum 'Blue Arrow'Blue Rocky Mountain JuniperExoticSemi mature PlantedPlanted4m x 3m14FairFair10-20 yearsLow21.51Multiple	ecimens Retain
43 Quercus robur English Oak Exotic Mature Planted 18m x 20m 118 Good Fair 20+ years High 14.16 3.69	Retain
44 Ulmus X hollandica Dutch Elm Exotic Mature Planted 12m x 5m 54 Fair Fair 10-20 years Medium 6.48 2.66	Remove
45 Ulmus X hollandica Dutch Elm Exotic Mature Planted 14m x 6m 76 Fair Poor 10-20 years Medium 9.12 3.07	Retain
46 Quercus robur English Oak Exotic Mature Planted 17m x 22m 102 Fair Fair 20+ years High 12.24 3.47	Retain
47 Quercus cerris Turkey Oak Exotic Mature Planted 21m x 15m 98 Good Fair 20+ years High 11.76 3.42	Retain
48 Quercus robur English Oak Exotic Mature Planted 19m x 20m 96 Fair Fair 20+ years High 11.52 3.39 Deadwork	over driveway Retain
49 Platanus Xacerifolia London Plane Exotic Semi mature Planted 12m x 4m 26 Good Fair 20+ years Medium 3.12 1.96	Retain
50 Platanus Xacerifolia London Plane Exotic Semi mature Planted 11m x 5m 21 Good Fair 20+ years Low 2.52 1.79	Retain
51 Platanus Xacerifolia London Plane Exotic Semi mature Planted 13m x 5m 28 Good Fair 20+ years Low 3.36 2.02	Retain
52 Platanus Xacerifolia London Plane Exotic Semi mature Planted 12m x 5m 28 Good Fair 20+ years Medium 3.36 2.02	Retain
53 Platanus Xacerifolia London Plane Exotic Semi mature Planted 13m x 9m 50 Good Fair 20+ years Medium 6 2.57	Retain
54 Platanus Xacerifolia London Plane Exotic Semi mature Planted 13m x 5m 32 Good Fair 20+ years Medium 3.84 2.13	Retain
55 Platanus Xacerifolia London Plane Exotic Semi mature Planted 14m x 5m 29 Good Fair 20+ years Medium 3.48 2.05	Retain
56 Platanus Xacerifolia London Plane Exotic Semi mature Planted 14m x 5m 30 Good Fair 20+ years Medium 3.6 2.08	Retain
57 Platanus Xacerifolia London Plane Exotic Semi mature Planted 14m x 4m 26 Good Fair 20+ years Medium 3.12 1.96	Retain
58 Platanus Xacerifolia London Plane Exotic Semi mature Planted 12m x 4m 21 Good Fair 20+ years Medium 2.52 1.79	Retain
59 Pinus radiata Monterey Pine Exotic Mature Planted 22m x 18m 200 Fair Fair 10-20 years High 15 4.61	Retain
60 Quercus cerris Turkey Oak Exotic Mature Planted 20m x 16m 106 Good Fair 20+ years High 12.72 3.53 Leaning	the south Retain
61 Pinus pinaster Maritime Pine Exotic Mature Planted 24m x 8m 126 Very Poor Poor 1-5 years Low 15 3.80 Tree in set	ere decline Remove
62Quercus canariensisAlgerian OakExoticMaturePlanted18m x 22m130FairFair10-20 yearsHigh153.85Large tree branch e property	in neighbours. Large Retain ends 10m into
63 Quercus cerris Turkey Oak Exotic Semi mature Planted 18m x 8m 60 Good Good 20+ years High 7.2 2.78 In neight	urs property Retain
64 Acacia melanoxylon Blackwood Indigenous Semi mature Self-sown 10m x 1m 24 Dead Poor 0 years Low 2.88 1.89	Remove
65 Acacia melanoxylon Blackwood Indigenous Mature Self-sown 12m x 3m 38 Dead Poor 0 years Low 4.56 2.29	Remove
66 Platanus Xacerifolia London Plane Exotic Semi mature Planted 9m x 3m 15 Good Fair 20+ years Low 2 1.55	Remove
67 Platanus Xacerifolia London Plane Exotic Young Planted 7m x 1m 8 Good Good 20+ years Low 2 1.50	Retain
68 Platanus Xacerifolia London Plane Exotic Semi mature Planted 12m x 5m 26 Good Fair 20+ years Medium 3.12 1.96	Retain
69 Platanus Xacerifolia London Plane Exotic Semi mature Planted 12m x 5m 27 Good Fair 20+ years Medium 3.24 1.99	Retain
70 Platanus Xacerifolia London Plane Exotic Semi mature Planted 14m x 5m 36 Good Fair 20+ years Medium 4.32 2.24	Retain
71 Acer rubrum Red Maple Exotic Young Planted 7m x 3m 15 Good Fair 20+ years Low 2 1.55	Retain
72 Platanus Xacerifolia London Plane Exotic Semi mature Planted 12m x 4m 20 Good Fair 20+ years Medium and 24 pool 175 hours	Retain
73 Platanus Xacerifolia London Plane Exotic Semi mature Planted 13m x 4m 26 Good Fair 20+ years Medium 143.4 DOV 1.961 NO CO	LANINING SCHRetall

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ID	Botanical Name	Common Name	Origin	Age	Planted/ Self-sown	ΗxW	DBH (cm)	Health	Structure	ULE	Retention Value	TPZ (m radius)	SRZ (m radius)	Comments	Retain/ remove
74	Platanus Xacerifolia	London Plane	Exotic	Semi mature	Planted	10m x 3m	19	Good	Fair	20+ years	Medium	2.28	1.71		Remove
75	Platanus Xacerifolia	London Plane	Exotic	Young	Planted	3m x 1m	5	Good	Good	20+ years	Low	2	1.50	-	Remove
76	Quercus palustris	Pin Oak	Exotic	Young	Planted	6m x 2m	13	Good	Good	20+ years	Low	2	1.50		Remove
77	Quercus palustris	Pin Oak	Exotic	Young	Planted	6m x 2m	12	Good	Good	20+ years	Low	2	1.50		Remove
78	Quercus palustris	Pin Oak	Exotic	Young	Planted	6m x 2m	12	Good	Good	20+ years	Low	2	1.50		Remove
79	Quercus palustris	Pin Oak	Exotic	Young	Planted	6m x 2m	12	Good	Good	20+ years	Low	2	1.50		Remove
80	Quercus palustris	Pin Oak	Exotic	Young	Planted	6m x 2m	12	Good	Good	20+ years	Low	2	1.50		Remove
81	Quercus palustris	Pin Oak	Exotic	Young	Planted	6m x 2m	12	Good	Good	20+ years	Low	2	1.50		Remove
82	Quercus palustris	Pin Oak	Exotic	Young	Planted	6m x 2m	12	Good	Good	20+ years	Low	2	1.50		Remove
83	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 10m	110	Good	Fair	20+ years	Medium	13.2	3.59	Dimensions estimated	Remove
84	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	14m x 7m	59	Good	Fair	20+ years	Medium	7.08	2.76		Remove
85	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	14m x 5m	40	Good	Fair	20+ years	Medium	4.8	2.34		Remove
86	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	14m x 4m	38	Good	Fair	20+ years	Medium	4.56	2.29		Remove
87	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 14m	80	Good	Fair	20+ years	Medium	9.6	3.14		Remove
88	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 9m	70	Good	Fair	20+ years	Medium	8.4	2.97		Remove
89	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 14m	90	Good	Fair	20+ years	Medium	10.8	3.30		Remove
90	Pinus radiata	Monterey Pine	Exotic	Young	Planted	13m x 5m	30	Good	Good	20+ years	Low	3.6	2.08		Remove
91	Eucalyptus ovata	Swamp Gum	Indigenous	Mature	Self-sown	10m x 12m	52	Good	Fair	20+ years	High	6.24	2.62		Remove
92	Eucalyptus ovata	Swamp Gum	Indigenous	Semi mature	Self-sown	9m x 4m	42	Good	Fair	20+ years	Medium	5.04	2.39	In reserve 1m from fence	Retain
93	Eucalyptus ovata	Swamp Gum	Indigenous	Semi mature	Self-sown	9m x 4m	39	Good	Fair	20+ years	Medium	4.68	2.32	In reserve 1m from fence	Retain
94	Eucalyptus ovata	Swamp Gum	Indigenous	Semi mature	Self-sown	15m x 12m	61	Good	Fair	20+ years	Medium	7.32	2.80		Retain
95	Eucalyptus ovata	Swamp Gum	Indigenous	Semi mature	Self-sown	8m x 5m	27	V-Poor	Poor	0 years	Low	3.24	1.99		Retain
96	Eucalyptus ovata	Swamp Gum	Indigenous	Semi mature	Self-sown	16m x 5m	54	Good	Fair	20+ years	Medium	6.48	2.66		Retain
97	Eucalyptus ovata	Swamp Gum	Indigenous	Semi mature	Self-sown	8m x 3m	28	V-Poor	Poor	0 years	Low	3.36	2.02		Retain
98	Eucalyptus ovata	Swamp Gum	Indigenous	Mature	Self-sown	12m x 14m	69	Good	Fair	20+ years	Medium	8.28	2.95		Retain
99	Eucalyptus ovata	Swamp Gum	Indigenous	Young	Self-sown	10m x 2m	23	Poor	Fair	5-10 years	Low	2.76	1.86		Retain
100	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 8m	68	Good	Good	20+ years	Medium	8.16	2.93		Remove
101	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 10m	69	Good	Good	20+ years	Medium	8.28	2.95		Remove
102	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 10m	54	Good	Good	20+ years	Medium	6.48	2.66		Remove
103	Eucalyptus bicostata	Eurabbie	Native	Mature	Planted	18m x 8m	62	Good	Fair	10-20 years	Medium	7.44	2.82	3 rd party, DBH estimated	Retain
104	Eucalyptus cladocalyx	Sugar Gum	Native	Mature	Planted	16m x 8m	44	Good	Fair	10-20 years	Medium	5.28	2.44	3 rd party, DBH estimated	Retain
105	Eucalyptus bicostata	Eurabbie	Native	Mature	Planted	17m x 8m	58	Good	Fair	10-20 years	Medium	6.96	2.74	3 rd party, DBH estimated	Retain
106	Eucalyptus cladocalyx	Sugar Gum	Native	Mature	Planted	22m x 9m	62	Good	Fair	10-20 years	Medium	7.44	2.82	3 rd party, DBH estimated	Retain
107	Eucalyptus bicostata	Eurabbie	Native	Mature	Planted	12m x 8m	90	Poor	Poor	1-5 years	Medium	10.8	3.30	3 rd party, DBH estimated	Retain
108	Eucalyptus bicostata	Eurabbie	Native	Mature	Planted	19m x 10m	78	Good	Fair	10-20 years	Medium	9.36	3.10	3 rd party, DBH estimated	Retain
109	Eucalyptus bicostata	Eurabbie	Native	Mature	Planted	18m x 10m	77	Good	Good	20+ years	Medium	9.24	3.09	3 rd party, DBH estimated	Retain
110	Eucalyptus bicostata	Eurabbie	Native	Mature	Planted	22m x 16m	115	Good	Fair	10-20 years	High	13.8	3.65	3 rd party, DBH estimated	Retain
111	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	12m x 10m	47	Good	Fair	10-20 years	Medium	5.64	2.51		Remove
112	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	14m x 10m	44	Good	Good	20+ years	Medium	5.28	2.44		Remove
113	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	6m x 2m	20	Dead	Poor	0 years	Low	2.4	1.75		Retain
114	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 8m	50	Good	Good	20+ years	Medium M	ACEDO		NGES PLANNING SCI	Remove

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ID	Botanical Name	Common Name	Origin	Age	Planted/ Self-sown	HxW	DBH (cm)	Health	Structure	ULE	Retention Value	TPZ (m radius)	SRZ (m radius)	Comments	Retain/ remove
115	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 10m	67	Good	Good	20+ years	Medium	8.04	2.91		Remove
116	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 12m	69	Good	Good	20+ years	Medium	8.28	2.95		Remove
117	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 9m	36	Good	Fair	10-20 years	Medium	4.32	2.24		Remove
118	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 9m	34	Fair	Fair	10-20 years	Low	4.08	2.19	suppressed	Remove
119	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	19m x 10m	55	Good	Good	20+ years	Medium	6.6	2.68		Remove
120	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	9m x 6m	28	Fair	Fair	10-20 years	Low	3.36	2.02	suppressed	Remove
121	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	20m x 14m	79	Good	Poor	1-5 years	Low	9.48	3.12		Remove
122	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 12m	49	Good	Good	20+ years	Medium	5.88	2.55		Remove
123	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 10m	49	Good	Good	20+ years	Medium	5.88	2.55		Remove
124	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 8m	37	Good	Good	20+ years	Medium	4.44	2.27		Remove
125	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	20m x 14m	85	Good	Fair	10-20 years	Medium	10.2	3.22		Remove
126	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	19m x 14m	82	Good	Good	20+ years	Medium	9.84	3.17		Remove
127	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 8m	44	Good	Good	20+ years	Medium	5.28	2.44		Remove
128	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 9m	47	Good	Good	20+ years	Medium	5.64	2.51		Remove
129	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	20m x 15m	72	Good	Good	20+ years	Medium	8.64	3.00		Remove
130	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 12m	48	Good	Good	20+ years	Medium	5.76	2.53		Remove
131	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 14m	49	Good	Good	20+ years	Medium	5.88	2.55		Remove
132	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 15m	70	Good	Fair	5-10 years	Low	8.4	2.97		Remove
133	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 16m	68	Good	Fair	10-20 years	Medium	8.16	2.93		Remove
134	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 9m	41	Fair	Fair	10-20 years	Low	4.92	2.37	suppressed	Remove
135	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 16m	79	Good	Fair	10-20 years	Medium	9.48	3.12		Remove
136	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	20m x 17m	108	Good	Fair	10-20 years	Medium	12.96	3.56		Remove
137	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 14m	66	Good	Good	20+ years	Medium	7.92	2.89		Remove
138	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 12m	49	Good	Good	20+ years	Medium	5.88	2.55		Retain
139	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 15m	80	Good	Fair	5-10 years	Low	9.6	3.14		Remove
140	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	12m x 6m	29	Fair	Fair	5-10 years	Low	3.48	2.05	suppressed	Remove
141	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 9m	47	Good	Good	20+ years	Medium	5.64	2.51		Remove
142	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 9m	44	Good	Fair	10-20 years	Low	5.28	2.44		Remove
143	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	19m x 16m	69	Good	Good	20+ years	Medium	8.28	2.95		Remove
144	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 15m	79	Good	Fair	10-20 years	Medium	9.48	3.12		Remove
145	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 5m	22	Fair	Fair	5-10 years	Low	2.64	1.82		Remove
146	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 16m	54	Good	Good	20+ years	Medium	6.48	2.66		Remove
147	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 16m	82	Good	Fair	10-20 years	Medium	9.84	3.17		Remove
148	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 14m	49	Good	Fair	5-10 years	Low	5.88	2.55		Remove
149	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 15m	68	Good	Good	20+ years	Medium	8.16	2.93		Remove
150	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	19m x 17m	102	Good	Poor	5-10 years	Low	12.24	3.47		Remove
151	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	14m x 9m	40	Good	Good	20+ years	Medium	4.8	2.34		Remove
152	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 16m	67	Good	Good	20+ years	Medium	8.04	2.91		Remove
153	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 16m	79	Good	Fair	10-20 years	Medium	9.48	3.12		Remove
154	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 16m	78	Good	Fair	10-20 years	Medium	9.36	3.10		Remove
155	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 15m	69	Good	Good	20+ years	Medium N/	1828 DC	1295	NGES DI ANINING SCI	Remove

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ID	Botanical Name	Common Name	Origin	Age	Planted/	H x W	DBH	Health	Structure	ULE	Retention	TPZ (m	SRZ (m	Comments	Retain/
					Self-sown		(cm)				Value	radius)	radius)		remove
156	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 15m	72	Good	Fair	10-20 years	Medium	8.64	3.00		Remove
157	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 16m	114	Good	Poor	5-10 years	Low	13.68	3.64		Remove
158	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	14m x 16m	58	Good	Fair	10-20 years	Medium	6.96	2.74		Remove
159	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 16m	70	Good	Poor	5-10 years	Low	8.4	2.97		Remove
160	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 18m	103	Good	Poor	5-10 years	Low	12.36	3.49		Remove
161	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 14m	67	Good	Good	20+ years	Medium	8.04	2.91		Remove
162	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	12m x 9m	36	Good	Poor	5-10 years	Low	4.32	2.24		Remove
163	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 18m	89	Good	Fair	10-20 years	Medium	10.68	3.28		Remove
164	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 18m	88	Good	Fair	10-20 years	Medium	10.56	3.26		Remove
165	Prunus cerasifera	Cherry Plum	Exotic	Mature	Planted	4m x 3m	18	Fair	Fair	5-10 years	Low	2.16	1.68		Remove
166	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 15m	67	Good	Good	20+ years	Medium	8.04	2.91		Remove
167	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 16m	89	Good	Poor	5-10 years	Low	10.68	3.28		Remove
168	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 16m	92	Good	Fair	20+ years	Medium	11.04	3.33		Remove
169	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 9m	54	Good	Good	20+ years	Medium	6.48	2.66		Remove
170	Eucalyptus globulus	Blue Gum	Native	Semi mature	Self-sown	9m x 7m	28	Good	Good	20+ years	Low	3.36	2.02		Remove
171	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	7m x 6m	24	Good	Good	20+ years	Low	2.88	1.89		Remove
172	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	12m x 8m	32	Good	Good	20+ years	Low	3.84	2.13		Remove
173	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 9m	40	Good	Good	20+ years	Medium	4.8	2.34		Remove
174	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 18m	94	Good	Fair	10-20 years	Low	11.28	3.36		Remove
175	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 10m	39	Fair	Fair	10-20 years	Low	4.68	2.32		Remove
176	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 18m	99	Good	Fair	10-20 years	Medium	11.88	3.43		Remove
177	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 18m	86	Good	Fair	10-20 years	Medium	10.32	3.23		Remove
178	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	19m x 18m	106	Good	Good	20+ years	Medium	12.72	3.53		Remove
179	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	8m x 6m	28	Good	Fair	5-10 years	Low	3.36	2.02	suppressed	Remove
180	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 18m	101	Good	Good	20+ years	Medium	12.12	3.46		Remove
181	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 18m	96	Good	Good	20+ years	Medium	11.52	3.39		Remove
182	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	12m x 9m	45	Good	Good	20+ years	Low	5.4	2.46		Remove
183	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	9m x 6m	29	Good	Good	20+ years	Low	3.48	2.05		Remove
184	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 9m	56	Good	Good	20+ years	Medium	6.72	2.70		Remove
185	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 12m	69	Good	Good	20+ years	Medium	8.28	2.95		Remove
186	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	14m x 9m	46	Good	Poor	5-10 years	Low	5.52	2.49		Remove
187	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 18m	98	Good	Poor	5-10 years	Low	11.76	3.42		Remove
188	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 9m	48	Good	Fair	10-20 years	Low	5.76	2.53		Remove
189	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 10m	54	Good	Good	20+ years	Medium	6.48	2.66		Remove
190	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 10m	56	Good	Good	20+ years	Medium	6.72	2.70		Remove
191	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 12m	60	Good	Fair	20+ years	Low	7.2	2.78		Remove
192	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 10m	49	Good	Poor	5-10 years	Low	5.88	2.55	Many codominant stems	Remove
193	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 16m	77	Good	Fair	10-20 years	Medium	9.24	3.09		Remove
194	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 15m	66	Fair	Fair	5-10 years	Low	7.92	2.89		Remove
195	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	10m x 6m	28	Good	Fair	20+ years	Low	3.36	2.02		Remove
196	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 14m	72	Good	Good	20+ years	Medium	864 0	3-00		Remove
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ID	Botanical Name	Common Name	Origin	Age	Planted/	HxW	DBH	Health	Structure	ULE	Retention	TPZ (m	SRZ (m	Comments	Retain/
					Self-sown		(cm)				Value	radius)	radius)		remove
197	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 8m	52	Good	Poor	5-10 years	Low	6.24	2.62		Remove
198	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	14m x 8m	39	Good	Fair	10-20 years	Low	4.68	2.32	suppressed	Remove
199	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 18m	98	Good	Fair	20+ years	Medium	11.76	3.42		Remove
200	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	12m x 9m	30	Fair	Fair	5-10 years	Low	3.6	2.08	suppressed	Remove
201	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 14m	79	Good	Fair	5-10 years	Low	9.48	3.12		Remove
202	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 18m	93	Good	Poor	5-10 years	Low	11.16	3.34		Remove
203	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 16m	89	Good	Poor	5-10 years	Low	10.68	3.28		Remove
204	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 16m	77	Good	Fair	10-20 years	Low	9.24	3.09		Remove
205	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 14m	68	Good	Good	10-20 years	Medium	8.16	2.93		Remove
206	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 12m	59	Good	Good	20+ years	Medium	7.08	2.76		Remove
207	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 10m	48	Good	Fair	10-20 years	Low	5.76	2.53		Remove
208	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	22m x 18m	112	Good	Poor	5-10 years	Low	13.44	3.61		Remove
209	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	20m x 18m	89	Good	Good	20+ years	Medium	10.68	3.28		Remove
210	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 16m	78	Good	Good	20+ years	Medium	9.36	3.10		Remove
211	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 16m	72	Good	Good	20+ years	Medium	8.64	3.00		Remove
212	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 16m	92	Good	Fair	5-10 years	Low	11.04	3.33		Remove
213	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 16m	82	Fair	Fair	5-10 years	Low	9.84	3.17		Remove
214	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	7m x 6m	28	Good	Good	20+ years	Low	3.36	2.02		Remove
215	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	6m x 5m	25	Good	Good	20+ years	Low	3	1.92		Remove
216	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 16m	69	Good	Fair	10-20 years	Low	8.28	2.95		Remove
217	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 16m	91	Good	Poor	5-10 years	Low	10.92	3.31		Remove
218	Pinus radiata	Monterey Pine	Exotic	Young	Planted	6m x 3m	18	Good	Good	20+ years	Low	2.16	1.68	Group of 3 individuals	Remove
219	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 16m	98	Good	Poor	5-10 years	Low	11.76	3.42		Remove
220	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	15m x 14m	78	Good	Fair	10-20 years	Low	9.36	3.10		Remove
221	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 16m	101	Good	Poor	5-10 years	Low	12.12	3.46		Remove
222	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	14m x 12m	48	Good	Good	20+ years	Medium	5.76	2.53		Remove
223	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	14m x 10m	52	Good	Good	20+ years	Medium	6.24	2.62		Remove
224	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 16m	96	Good	Poor	5-10 years	Low	11.52	3.39		Remove
225	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	17m x 16m	89	Good	Fair	5-10 years	Low	10.68	3.28		Remove
226	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	16m x 14m	67	Good	Good	20+ years	Medium	8.04	2.91		Remove
227	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 16m	98	Good	Poor	10-20 years	Low	11.76	3.42		Remove
228	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 15m	77	Good	Poor	5-10 years	Low	9.24	3.09		Remove
229	Pinus radiata	Monterey Pine	Exotic	Mature	Planted	18m x 16m	100	Good	Fair	10-20 years	Medium	12	3.44		Remove
230	Pinus radiata	Monterey Pine	Exotic	Semi mature	Planted	6m x 6m	25	Fair	Fair	5-10 years	Low	3	1.92	suppressed	Remove

*See Appendix 11 Individual Tree Details for individual reports and photos

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack¹⁰⁰ff²Shire Page: 131 of 221 SIGNED:

9 References

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10 Appendices

10.1 Definitions

Botanical name:

The genus, species and common name.

Canopy dimensions

Height (approximate) and width (measured) of the canopy in metres.

DBH

Diameter at breast height (measured at 1.4m above ground level).

Tree Origin

Term	Definition
Exotic	The species originates in a country other than Australia.
Native	The species originates within Australia.
Indigenous	The species originates within the local environs.
Health	

Term	Definition
Excellent	The tree is demonstrating excellent or exceptional growth. The tree should exhibit a full canopy of foliage and be free of pest and disease problems.
Good	The tree is demonstrating good or exceptional growth. The tree should exhibit a full canopy of foliage, and have only minor pest or diseases problems.
Fair	The tree is in reasonable condition and growing well. The tree should exhibit an adequate canopy of foliage. There may be some deadwood present in the crown. Some grazing by insects or possums may be evident.
Poor	The tree is not growing to its full capacity; extension growth of the laterals is minimal. The canopy may be thinning or sparse. Large amounts of deadwood may be evident throughout the crown. Significant pest and disease problems may be evident or symptoms of stress indicating tree decline.
Very Poor	The tree appears to be in a state of decline. The tree is not growing to its full capacity. The canopy may be very thin and sparse. A significant volume of deadwood may be present in the canopy or pest and disease problems may be causing a severe decline in tree health.
Dead	The tree is dead.

Axiom Tree Management Pty Lto ABN: 11 612 205 099	MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C
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Structure

Term	Definition
Good	The tree has a well-defined and balanced crown. Branch unions appear to be strong, with no defects evident in the trunk or the branches. Major limbs are well defined. The tree is considered a good example of the species.
Fair	The tree has some minor problems in the structure of the crown. The crown may be slightly out of balance, and some branch unions may be exhibiting minor structural faults. If the tree has a single trunk, it may be on a slight lean or exhibiting minor defects.
Poor	The tree may have a poorly structured crown. The crown may be unbalanced or exhibit large gaps. Major limbs may not be well defined. Branches may be rubbing or crossing over. Branch unions may be poor or faulty at the point of attachment. The tree may have suffered root damage.
Very Poor	The tree has a poorly structured crown. The crown is unbalanced or exhibit large gaps with possibly large sections of deadwood. Major limbs may not be well defined. Branches may be rubbing or crossing over. Branch unions may be poor or faulty at the point of attachment. Branches may exhibit large cracks that are likely to fail in the future. The tree may have suffered major root damage.
Failed	The tree has a very poorly structured crown. A section of the tree has failed or is in imminent danger of failure.

Useful Life Expectancy (ULE) Rating

Useful Life Expectancy is approximately how long a tree can be retained safely and usefully in the landscape.

Term	Definition
0 years	The tree is considered dangerous in the location and has no significant amenity value.
Less than 5 years	The tree, under normal circumstances and without extra stresses being imposed on it, should be safe and have value for up to five years, but will need to be replaced. During this period, normal inspections and maintenance will be required. If possible, replacement trees should be planted.
5 – 10 years	The tree, under normal circumstances and without extra stresses being imposed on it, should be safe and of value for up to ten years. During this period, normal inspections and maintenance will be required.
10– 20 years	The tree, under normal circumstances and without extra stresses being imposed on it, should be safe and of value for up to twenty years. During this period, normal inspections and maintenance will be required.
Greater than 20 years	The tree, under normal circumstances and without extra stresses being imposed on it, should be safe and of value for greater than 20 years. During this period, normal inspections and maintenance will be required.

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11 Individual Tree Details

ABN: 11 612 205 099

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Botanical Name:

Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Phoenix canariensis Canary Island Date Palm Exotic DBH (cm): Semi mature 90 9m x 8m TPZ (m): Good 5 Fair SRZ (m): 20+ years 3.30 Medium None

Tree Number: 2



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Thuja occidentalis
White Cedar
Exotic
Semi mature
5m x 2m
Good
Good
20+ years
Medium
Codominant stems

DBH (cm):
15
TPZ (m):
2
SRZ (m):
1.55

Comments:

Tree Number:	: 3
--------------	-----



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Liriodendron tulipifera	
Tulip Tree	
Exotic	
Semi mature	DBH (cm):
8m x 4m	20
Good	TPZ (m):
Good	2.4
20+ years	SRZ (m):
Medium	1.75

Deadwood throughout the canopy

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Botanical Name: Quercus palustris Common Name: Pin Oak Origin: Exotic Semi mature Tree Age: H x W: 14m x 8m Health: Good Structure: Fair ULE: 20+ years **Retention Value:** Medium None Defects:

DBH (cm):
45
TPZ (m):
5.4
SRZ (m):
2.46
5.4 SRZ (m): 2.46

.. . _



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Quercus palustris	
Pin Oak	
Exotic	
Semi mature	DBH (cm) :
14m x 8m	40
Good	TPZ (m):
Poor	4.8
20+ years	SRZ (m):
Medium	2.34

Codominant stems with included union

Comments:

Reduce stem to south by 25%

Tree Number: 6



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Acer rubrum Red Maple Exotic Young 8m x 3m Good Fair 20+ years Low None

DBH (cm): 13 TPZ (m): 2 SRZ (m): 1.50

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Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Chinese Elm Exotic D Semi mature 10m x 4m Good Fair 20+ years S Medium Codominant stems

Ulmus parvifolia

DBH (cm):
26
TPZ (m):
3.12
SRZ (m):
1.96

Comments:

Tree Number: 8



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Liquidambar styraciflua Liquidamber Exotic Young 10m x 3m Good Good 20+ years Low None

DBH (cm): 14 TPZ (m): 2 SRZ (m): 1.51

Comments:

Tree Number: 9



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects: Morus alba 'Pendula' Weeping Mulberry Exotic Young 3m x 3m Good Good 20+ years Low None

DBH (cm): 12 TPZ (m): 2 SRZ (m): 1.50

Comments:







Botanical Name:	Liquidambar styraciflua
Common Name:	Liquidamber
Origin:	Exotic
Tree Age:	Young
H x W:	7m x 2m
Health:	Good
Structure:	Good
ULE:	20+ years
Retention Value:	Low
Defects:	None

Comments:

Tree Number: 11



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

DBH (ст):
9
TPZ (m):
2
SRZ (m):
1.50

Codominant stems with included union

Comments:

Remove codominant

Acer rubrum

Tree Number: 12



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Magnolia grandiflora Bull Bay Exotic Semi mature 5m x 4m Fair Fair 10-20 years Medium None



MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack² Wiltshire Page: 138 of 221 SIGNED: HH





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value:

Italian Cypress Exotic Semi mature 3m x 1m Good Fair 10-20 years Low Lopped canopy

Cupressus sempervirens

DBH (cm):
10
TPZ (m):
2
SRZ (m):
1.50

Comments:

Defects:

Tree Number: 14



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Cupressus sempervirens Italian Cypress Exotic Semi mature 3m x 1m Good Fair 10-20 years Low Lopped canopy

DBH (cm): 10 TPZ (m): 2 SRZ (m): 1.50

Comments:

Tree Number: 15



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Liriodendron tulipifera Tulip Tree Exotic Semi mature 11m x 3m Good Fair 10-20 years Low None

DBH (cm): 19 TPZ (m): 2.28 SRZ (m): 1.71

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DBH (cm):

55

TPZ (m):

6.6

SRZ (m):

2.68

Tree Number: 16



Botanical Name: Liriodendron tulipifera Common Name: Tulip Exoti Origin: Sem Tree Age: H x W: 10m Health: Good Structure: Fair ULE: 10-2 **Retention Value:** Medi None Defects:

,	
Tree	
ic	
i mature	DBH (CIII).
F	21
x 5m	TD7 (m).
d	1PZ (M):
	2.52
0 years	SRZ (m):
ium	1.79
د	

Quercus palustris

Pin Oak

Semi mature

14m x 8m

20+ years

Medium

Exotic

Good

Fair

Comments:

Tree Number: 17



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Comments:

Tree Number: 18



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Morus nigra	
Black Mulberry	
Exotic	
Semi mature	
5m x 5m	23
Fair	TPZ (m):
Fair	2.76
10-20 years	SRZ (m):
Medium	1.86

Broken branches throughout the canopy

Codominant decayed stems

Comments:

POSTANDA RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack²Wiltshire Page: 140 of 221 SIGNED:





Botanical Name:

Golden Ash
Exotic
Semi mature
9m x 9m
Good
Good
20+ years
Medium
None

Fraxinus excelsior 'Au	urea'
Golden Ash	
Exotic	
Semi mature	DBH (cm):
9m x 9m	18
Good	TPZ (m):
Good	2.16
20+ years	SRZ (m):
Medium	1.68

Comments:

Tree Number: 20



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Quercus palustris Pin Oak Exotic Semi mature 14m x 7m Good Good 20+ years Medium None

DBH (cm):
40
TPZ (m): 4.8
SRZ (m):
2.34

Tree Number: 21



Comments:

Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Comments:

Betula pendula Silver Birch Exotic Semi mature 11m x 3m Fair Fair 10-20 years Medium None

DBH (cm): 16 TPZ (m): 2 SRZ (m): 1.60

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack²Wiltshire Page: 141 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Phoenix canariensis		
Canary Island Date Palm		
Exotic		
Semi mature		
7m x 7m	100	
Good	TPZ (m):	
Good	4.5	
20+ years	SRZ (m):	
Medium	3.44	
None		

Tree Number: 23



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Ulmus glabra 'Camperdownii'Weeping ElmExoticSemi mature4m x 7mGoodGood20+ yearsMedium2None

DBH (cm): 32 TPZ (m): 3.84 SRZ (m): 2.13



Comments:

Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Salix babylonica Weeping Willow Exotic Semi mature 7m x 7m Good Fair 10-20 years Medium None

DBH (cm): 31 TPZ (m): 3.72 SRZ (m): 2.11

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Botanical Name:	Malus sp.
Common Name:	Apple
Origin:	Exotic
Tree Age:	Semi mature
H x W:	4m x 5m
Health:	Good
Structure:	Fair
ULE:	10-20 years
Retention Value:	Low
Defects:	None

DBH (cm):
20
TPZ (m):
2.4
SRZ (m):
1.75

Tree Number: 26



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Quercus robur
English Oak
Exotic
Semi mature
7m x 5m
Good
Good
20+ years
Medium
None

DBH (cm):
23
TPZ (m):
2.76
SRZ (m):
1.86



Comments:

Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Juglans regia Walnut Exotic Semi mature 5m x 8m Good Good 20+ years Medium None

DBH (cm): 27 TPZ (m): 3.24 SRZ (m): 1.99

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 143 of 221 SIGNED: HH





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Silver Birch Exotic Semi mature 6m x 3m Good Poor 10-20 years Low Codominant stems

Betula pendula

DBH (cm): 15 TPZ (m): 2 SRZ (m): 1.55

Comments:

Tree Number: 29



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects: Morus nigra Black Mulberry Exotic Semi mature 2m x 2m Good Fair 20+ years Low None

DBH (cm): 11 TPZ (m): 2 SRZ (m): 1.50

1 A B

Comments:

Tree Number: 30



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Populus alba 'Pyramidalis' White Fastigiate Poplar Exotic Mature 14m x 4m Good Fair 20+ years Medium None

DBH (cm): 35 TPZ (m): 4.2 SRZ (m): 2.22

Comments:

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack³Wiltshire Page: 144 of 221 SIGNED:




Botanical Name:	Quercus palustris	
Common Name:	Pin Oak	
Origin:	Exotic	
Tree Age:	Young	
H x W:	6m x 3m	
Health:	Good	
Structure:	Good	
ULE:	20+ years	
Retention Value:	Low	
Defects:	None	

DBH (cm):	
13	
TPZ (m):	
2	
SRZ (m):	
1.50	

Comments:

Tree Number: 32



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Quercus palustris
Pin Oak
Exotic
Young
5m x 1m
Fair
Good
20+ years
Low
None

DBH (cm):	
10	
TPZ (m):	
2	
SRZ (m):	
1.50	

Comments:

Tree Number: 33



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Quercus palustris Pin Oak Exotic Young 5m x 2m Fair Good 20+ years Low None

DBH (cm): 13 TPZ (m): 2 SRZ (m): 1.50

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 145 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Unknown sp. Unknown Exotic Young 4m x 4m Good Fair 10-20 years Low Codominant stems

DBH (cm):	
18	
TPZ (m):	
2.16	
SRZ (m):	
1.68	

Comments:

Tree Number: 35



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Morus alba
Mulberry
Exotic
Semi mature
3m x 2m
Fair
Fair
10-20 years
Low
Lopped main stem

DBH (cm):	
9	
TPZ (m):	
2	
SRZ (m):	
1.50	

Comments:

Tree Number: 36



Botanical Name:	
Common Name:	
Origin:	
Tree Age:	
H x W:	
Health:	
Structure:	
ULE:	
Retention Value:	
Defects:	

Comments:

Cupressus sempervirens Italian Cypress Exotic Semi mature 9m x 1m Good 20+ years Medium

DBH (cm): 15 TPZ (m): 2 SRZ (m): 1.55

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Botanical Name: Common Name: Origin:

Comments:

Common Name:	Italian Cypress
Origin:	Exotic
Tree Age:	Semi mature
H x W:	8m x 1m
Health:	Good
Structure:	Good
ULE:	20+ years
Retention Value:	Medium
Defects:	None

Cupressus sempervirens

DBH (cm):
14
TPZ (m):
2
SRZ (m):
1.51

Tree Number: 38



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Eriobotrya japonica Loquat Exotic Semi mature 4m x 3m Good Good 20+ years Low None

DBH (cm): 15 TPZ (m): 2 SRZ (m): 1.55

Comments:

Tree Number: 39



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Prunus sp. Plum Exotic Semi mature 4m x 3m Fair Fair 10-20 years Low None

DBH (cm): 15 TPZ (m): 2 SRZ (m): 1.55

3 MACEBON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack 3 Wiltshire Page: 147 of 221 SIGNED:





Botanical Name: Olea europaea Common Name: **European Olive** Exotic Origin: Semi mature Tree Age: H x W: 5m x 3m Health: Fair Structure: Fair ULE: 10-20 years **Retention Value:** Low None Defects:

DBH (cm):
18
TPZ (m):
2.16
SRZ (m):
1.68

Comments:

Tree Number: 41



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects: 5 fruit trees-Olive, apple and Citrus

Malus domestica Apple Exotic Semi mature 5m x 4m Fair Fair 10-20 years Low None

DBH (cm): 15 TPZ (m): 2 SRZ (m): 1.55

Comments:

Tree Number: 42



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Juniperus scopulorum 'Blue Arrow' Blue Rocky Mountain Juniper Exotic

5 fruit trees ape and pear

Semi mature 4m x 3m Fair Fair 10-20 years Low None

DBH (cm): 14 TPZ (m): 2 SRZ (m): 1.51

INC

Comments:

s: Multivia GEO ON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Axiom Tree Management Pty Lt Authorised Officer: Jack 360 f fto Page: 148 of 221 SIGNED:





Botanical Name:	Quercus robur
Common Name:	English Oak
Origin:	Exotic
Tree Age:	Mature
H x W:	18m x 20m
Health:	Good
Structure:	Fair
ULE:	20+ years
Retention Value:	High
Defects:	None

English Oak
Exotic
Mature
18m x 20m
Good
Fair
20+ years
High
None

DBH (cm):
118
TPZ (m):
14.16
SRZ (m):
3.69

Comments:

Tree Number: 44



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Ulmus X hollandica Dutch Elm Exotic Mature 12m x 5m Fair Fair 10-20 years Medium Leaning main stem

DBH (cm): 54 TPZ (m): 6.48 SRZ (m): 2.66



Comments:

Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Ulmus X hollandica	
Dutch Elm	
Exotic	
Mature	
14m x 6m	
Fair	
Poor	
10-20 years	
Medium	

DBH (cm): 76 TPZ (m): 9.12 SRZ (m): 3.07

Decayed stem with deadwood throughout canopy

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack³Wiltshire Page: 149 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health:

Structure: ULE: **Retention Value:** Defects:

Quercus robur	
English Oak	
Exotic	
Mature	DBH (сШ).
	102
17m x 22m	
Fair	TPZ (m):
Fair	12.24
20+ years	SRZ (m):
High	3.47
Deadwood throughout the canopy	

Comments:

Tree Number: 47



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Quercus cerris
Turkey Oak
Exotic
Mature
21m x 15m
Good
Fair
20+ years
High
None

DBH (cm):
98
TPZ (m):
11.76
SRZ (m):
3.42

DBH (cm):

96

TPZ (m):

11.52

SRZ (m): 3.39

Comments:

Tree Number: 48



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Quercus robur	
English Oak	
Exotic	
Mature	
19m x 20m	
Fair	
Fair	
20+ years	
High	

Deadwood throughout the canopy

Comments:

Deathage Dont RAW SES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack³Wiltshire Page: 150 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Platanus Xacerifolia London Plane Exotic Semi mature 12m x 4m Good Fair 20+ years Medium None

DBH (cm):
26
TPZ (m):
3.12
SRZ (m):
1.96

Comments:

Tree Number: 50



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Platanus Xacerifolia London Plane Exotic Semi mature 11m x 5m Good Fair 20+ years Low None

DBH (cm): 21 TPZ (m): 2.52 SRZ (m): 1.79





Comments:

Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Platanus Xacerifolia London Plane Exotic Semi mature 13m x 5m Good Fair 20+ years Low None

DBH (cm): 28 TPZ (m): 3.36 SRZ (m): 2.02

Comments:

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack³Wiltshire Page: 151 of 221 SIGNED:





Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Platanus Xacerifolia
London Plane
Exotic
Semi mature
12m x 5m
Good
Fair
20+ years
Medium
None

DBH (cm):
28
TPZ (m):
3.36
SRZ (m):
2.02

- - -

Comments:

Tree Number: 53



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Platanus Xacerifolia
London Plane
Exotic
Semi mature
13m x 9m
Good
Fair
20+ years
Medium
Codominant stems

DBH (cm): 50 TPZ (m): 6 SRZ (m): 2.57

Comments:

Tree Number: 54



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Platanus Xacerifolia London Plane Exotic Semi mature 13m x 5m Good Fair 20+ years Medium None

DBH (cm): 32 TPZ (m): 3.84 SRZ (m): 2.13

Comments:

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 152 of 221 SIGNED:





Botanical Name:

Common Name:	
Origin:	
Tree Age:	
H x W:	
Health:	
Structure:	
ULE:	
Retention Value:	
Defects:	

Exotic Semi mature 14m x 5m Good Fair 20+ years Medium None

Platanus Xacerifolia

London Plane

DBH (cm):
29
TPZ (m):
3.48
SRZ (m):
2.05



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Platanus Xacerifolia London Plane Exotic Semi mature 14m x 5m Good Fair 20+ years Medium None

DBH (cm):
30
TPZ (m):
3.6
SRZ (m):
2.08

Tree Number: 57



Comments:

Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Platanus Xacerifolia London Plane Exotic Semi mature 14m x 4m Good Fair 20+ years Medium None

DBH (cm): 26 TPZ (m): 3.12 SRZ (m): 1.96

Comments:

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack⁴Wiltshire Page: 153 of 221 SIGNED:





Botanical Name: Platanus Xacerifolia London Plane Common Name: Exotic Origin: Semi mature Tree Age: H x W: 12m x 4m Health: Good Structure: Fair ULE: 20+ years **Retention Value:** Medium None Defects:

DBH (cm): 21 TPZ (m): 2.52 SRZ (m): 1.79

Comments:

Tree Number: 59



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
22m x 18m	200
Fair	TPZ (m):
Fair	15
10-20 years	SRZ (m):
High	4.61

Deadwood throughout the canopy

Tree Number: 60



Comments:

Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Quercus cerris Turkey Oak Exotic Mature 20m x 16m Good Fair 20+ years High Leaning main stem

DBH (cm): 106 TPZ (m): 12.72 SRZ (m): 3.53

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Leanna CEDOR RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 154 of 221 SIGNED:



Tree Number: 61	Botanical Name: Common Name:	<i>Pinus pinaster</i> Maritime Pine	
Real N	Origin:	Exotic	
R R	Tree Age:	Mature	DBH (cm):
	H x W:	24m x 8m	126
	Health:	Very Poor	TPZ (m):
A second	Structure:	Poor	15
	ULE:	1-5 years	SRZ (m):
	Retention Value:	Low	3.80
	Defects:	Deadwood throughout	the canopy
	Comments:	Tree in severe decline	
Tree Number: 62	Botanical Name:	Quercus canariensis	
	Common Name:	Algerian Oak	
A stranger and the S	Origin:	Exotic	
B AND A A A A A A A A A A A A A A A A A A	Tree Age:	Mature	DBH (cm):
N N N	H x W:	18m x 22m	130
A MALE SUPERIOR	Health:	Fair	TPZ (m):
	Structure:	Fair	15
	ULE:	10-20 years	SRZ (m):
	Retention Value:	High	3.85
I amt	Defects:	Deadwood and extend canopy	ed branches in
	Comments:	Large tree in neighbou branch extends 10m ir	ring property. Large to property
Tree Number: 63	Botanical Name:	Quercus cerris	
	Common Name:	Turkey Oak	
	Origin:	Exotic	
	Tree Age:	Semi mature	60
	H x W:	18m x 8m	
	Health:	Good	TPZ (M):
	Structure:	Good	(.2 6D7 (m):
	ULE:	20+ years	SRZ (III):
	Retention Value:	High	2.70
	Defects:	None	
	Comments:	In nevolocitor wireay	NGES PLANNING SCHEME PLAN: DP/2009/12/C

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Authorised Officer: Jack Wiltshire Page: 155 of 221 SIGNED:

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Date: 20/11/2023



Tree Number: 64 **Botanical Name:** Acacia melanoxylon **Common Name:** Blackwood Indigenous Origin: DBH (cm): Semi mature Tree Age: 24 H x W: 10m x 1m TPZ (m): Dead Health: 2.88 Poor Structure: SRZ (m): ULE: 0 years 1.89 **Retention Value:** Low Decay in main stem and deadwood in **Defects:** canopy Comments: <40cm @ 1.3m exempt Tree Number: 65 Acacia melanoxylon **Botanical Name: Common Name:** Blackwood Indigenous Origin: DBH (cm): Mature Tree Age: 38 H x W: 12m x 3m **TPZ (m)**: Health: Dead 4.56 Structure: Poor SRZ (m): ULE: 0 years 2.29 **Retention Value:** Low Decay in main stem and deadwood in Defects: canopy Comments: <40cm @ 1.3m exempt

Tree Number: 66



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Platanus Xacerifolia London Plane Exotic Semi mature 9m x 3m Good Fair 20+ years Low None

DBH (cm): 15 TPZ (m): 2 SRZ (m): 1.55

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Botanical Name: Platanus Xacerifolia **Common Name:** Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value: Defects:**

London Plane
Exotic
Young
7m x 1m
Good
Good
20+ years
Low
None

DBH (cm):
8
TPZ (m):
2
SRZ (m):
1.50

Comments:

Tree Number: 68



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Platanus Xacerifolia London Plane Exotic Semi mature 12m x 5m Good Fair 20+ years Medium None

DBH (cm): 26 TPZ (m): 3.12 SRZ (m): 1.96

Comments:

Tree Number: 69



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Platanus Xacerifolia London Plane Exotic Semi mature 12m x 5m Good Fair 20+ years Medium None

DBH (cm): 27 TPZ (m): 3.24 SRZ (m): 1.99

Comments:

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 157 of 221 SIGNED:





Botanical Name: Platanus Xacerifolia London Plane Common Name: Exotic Origin: Semi mature Tree Age: H x W: 14m x 5m Good Health: Structure: Fair ULE: 20+ years **Retention Value:** Medium None Defects:

DBH (cm): 36 TPZ (m): 4.32 SRZ (m): 2.24

Tree Number: 71



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Acer rubrum Red Maple Exotic Young 7m x 3m Good Fair 20+ years Low Included union

DBH (cm): 15 TPZ (m): 2 SRZ (m): 1.55

Tree Number: 72



Comments:

Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects: Platanus Xacerifolia London Plane Exotic Semi mature 12m x 4m Good Fair 20+ years Medium None

DBH (cm): 20 TPZ (m): 2.4 SRZ (m): 1.75

Comments:

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 158 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Platanus Xacerifolia
London Plane
Exotic
Semi mature
13m x 4m
Good
Fair
20+ years
Medium
None

DBH (cm):
26
TPZ (m):
3.12
SRZ (m):
1.96



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Platanus Xacerifolia London Plane Exotic Semi mature 10m x 3m Good Fair 20+ years Medium None

DBH (cm):
19
TPZ (m):
2.28
SRZ (m):
1.71

Tree Number: 75



Comments:

Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Platanus Xacerifolia London Plane Exotic Young 3m x 1m Good Good 20+ years Low None

DBH (cm): 5 TPZ (m): 2 SRZ (m): 1.50

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 159 of 221 SIGNED:





Botanical Name: Quercus palustris **Common Name:** Pin Oak Exotic Origin: Tree Age: Young H x W: 6m x 2m Health: Good Good Structure: ULE: 20+ years **Retention Value:** Low None Defects:

Tree Number: 77



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Comments:

Quercus palustris Pin Oak Exotic Young 6m x 2m Good Good 20+ years Low None

DBH (cm): 12 **TPZ (m)**: 2 SRZ (m): 1.50

Comments:

Tree Number: 78



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Comments:

Quercus palustris Pin Oak Exotic Young 6m x 2m Good Good 20+ years Low None

DBH (cm): 12 TPZ (m): 2 SRZ (m): 1.50

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 160 of 221 SIGNED:





Botanical Name: Quercus palustris **Common Name:** Pin Oak Origin: Exotic Young Tree Age: H x W: 6m x 2m Health: Good Structure: Good ULE: 20+ years **Retention Value:** Low None Defects:

Comments:

Tree Number: 80



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Quercus palustris Pin Oak Exotic Young 6m x 2m Good Good 20+ years Low None

DBH (cm):
12
TPZ (m):
2
SRZ (m):
1.50

..



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Comments:

Quercus palustris Pin Oak Exotic Young 6m x 2m Good Good 20+ years Low None

DBH (cm): 12 TPZ (m): 2 SRZ (m): 1.50

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 161 of 221 SIGNED:





Botanical Name: Quercus palustris **Common Name:** Pin Oak Exotic Origin: Tree Age: Young H x W: 6m x 2m Health: Good Good Structure: ULE: 20+ years **Retention Value:** Low None Defects:

DBH (cm):
12
TPZ (m):
2
SRZ (m):
1.50

Tree Number: 83



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Pinus radiata Monterey Pine Exotic Mature 18m x 10m Good Fair 20+ years Medium Codominant stems

DBH (cm): 110 TPZ (m): 13.2 SRZ (m): 3.59

A HARD

Tree Number: 84



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Pinus radiata Monterey Pine Exotic Semi mature 14m x 7m Good Fair 20+ years Medium Codominant stems

Dimensions estimated

DBH (cm): 59 TPZ (m): 7.08 SRZ (m): 2.76

Comments:

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 162 of 221 SIGNED:





Botanical Name: Pinus radiata **Common Name: Monterey Pine** Origin: Exotic Semi mature Tree Age: H x W: 14m x 5m Health: Good Structure: Fair ULE: 20+ years **Retention Value:** Medium None Defects:

DBH (cm):
40
TPZ (m):
4.8
SRZ (m):
2.34

Tree Number: 86



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Pinus radiata Monterey Pine Exotic Semi mature 14m x 4m Good Fair 20+ years Medium None

DBH (cm): 38
TPZ (m):
4.56
SRZ (m):
2.29

Tree Number: 87



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Comments:

Pinus radiata Monterey Pine Exotic Mature 16m x 14m Good Fair 20+ years Medium None

DBH (cm): 80 TPZ (m): 9.6 SRZ (m): 3.14

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 163 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Monterey Pine
Exotic
Mature
15m x 9m
Good
Fair
20+ years
Medium
None

Pinus radiata

DBH (cm):
TPZ (m):
8.4 SRZ (m):
2.97

Tree Number: 89



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Pinus radiata Monterey Pine Exotic Mature 16m x 14m Good Fair 20+ years Medium None

DBH (cm):
90
TPZ (m):
10.8
SRZ (m):
3.30

Tree Number: 90



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Comments:

Pinus radiata Monterey Pine Exotic Young 13m x 5m Good Good 20+ years Low None

DBH (cm): 30 TPZ (m): 3.6 SRZ (m): 2.08

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 164 of 221 SIGNED:





Botanical Name: Eucalyptus ovata Common Name: Swamp Gum Indigenous Origin: Mature Tree Age: H x W: 10m x 12m Health: Good Structure: Fair ULE: 20+ years **Retention Value:** High None Defects:

DBH (cm):
52
TPZ (m):
6.24
SRZ (m):
2.62

Tree Number: 92



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Eucalyptus ovata Swamp Gum Indigenous Semi mature 9m x 4m Good Fair 20+ years Medium Codominant stems

DBH (cm): 42 TPZ (m): 5.04 SRZ (m): 2.39

Comments:

Tree Number: 93



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Eucalyptus ovata Swamp Gum Indigenous Semi mature 9m x 4m Good Fair 20+ years Medium Codominant stems

In reserve 1m from fence

DBH (cm): 39 TPZ (m): 4.68 SRZ (m): 2.32

In CEDOMRANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 165 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Eucalyptus ovata	
Swamp Gum	
Indigenous	
Semi mature	
15m x 12m	61
Good	TPZ (m):
Fair	7.32
20+ years	SRZ (m):
Medium	2.80
.	

Codominant stems with included union

Comments:

Tree Number: 95



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Eucalyptus ovataSwamp GumIndigenousSemi matureSemi mature8m x 5mVery PoorPoor0 yearsLow1.99

Leaning main stem and deadwood in canopy

Tree Number: 96



CO	m	m	en	tS

Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Eucalyptus ovata
Swamp Gum
Indigenous
Semi mature
16m x 5m
Good
Fair
20+ years
Medium

DBH (cm): 54 **TPZ (m):** 6.48 **SRZ (m):** 2.66

Codominant stems with included union

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 166 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Eucalyptus ovata	
Swamp Gum	
Indigenous	
Semi mature	
8m x 3m	20
Very Poor	TPZ (m):
Poor	3.36
0 years	SRZ (m):
Low	2.02

Leaning main stem and deadwood in canopy

Comments:

Tree Number: 98



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Eucalyptus ovata	
Swamp Gum	
Indigenous	
Mature	
12m x 14m	69
Good	TPZ (m):
Fair	8.28
20+ years	SRZ (m):
Medium	2.95

Codominant stems with extended branches throughout canopy

Tree Number: 99



Comments:

Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Eucalyptus ovata	
Swamp Gum	
Indigenous	
Young	DBH (cm):
10m x 2m	23
Poor	TPZ (m):
Fair	2.76
5-10 years	SRZ (m):
Low	1.86

Deadwood throughout the canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 167 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Monterey Pine	
Exotic	
Mature	DBH (CM):
40	68
16m x 8m	TD7 (m);
Good	172 (111).
Good	8.16
20+ years	SRZ (m):
Medium	2.93
Deadwood throughout the capopy	

Dinus radiata

Pinus radiata

Exotic

Mature

Good

Good

20+ years

Deadwood throughout the canopy

Medium

18m x 10m

Monterey Pine

Comments:

Tree Number: 101



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Tree Number: 102



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata Monterey Pine Exotic Mature 16m x 10m Good Good 20+ years Medium None

DBH (cm): 54 TPZ (m): 6.48 SRZ (m): 2.66

DBH (cm):

69

TPZ (m):

8.28

SRZ (m):

2.95

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 168 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Eurabbie	
Native	DDI
Mature	DBI
18m x 8m	
Good	TPZ
Fair	7
10-20 years	SR
Medium	2
Lopped main stem	

Third party ownership DBH estimated

Third party ownership DBH estimated

Eucalyptus bicostata

DBH (cm): 62 TPZ (m): 7.44 SRZ (m): 2.82

Comments:

Tree Number: 104



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Eucalyptus cladocalyx Sugar Gum Native Mature 16m x 8m Good Fair 10-20 years Medium Codominant stems

DBH (cm): 44 TPZ (m): 5.28 SRZ (m): 2.44

Comments:

Tree Number: 105



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Eucalyptus bicostata Eurabbie Native Mature 17m x 8m Good Fair 10-20 years Medium Lopped canopy

DBH (cm): 58 TPZ (m): 6.96 SRZ (m): 2.74

Th NACEDON RANGES MEAN NING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 169 of 221 SIGNED:





Tree Number: 107

Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Comments:

Origin: Tree Age: H x W: Health: Structure: ULE:

Botanical Name: Common Name:

Retention Value:

Defects:

Comments:

Botanical Name:

Sugar Gum Native Mature 22m x 9m Good Fair 10-20 years Medium Codominant stems

Eucalyptus cladocalyx

DBH (cm):
62
TPZ (m):
7.44
SRZ (m):
2.82

Third party ownership DBH estimated

Eucalyptus bicostata	
Eurabbie	
Native	
Mature	DBH (cm):
12m x 8m	90
Poor	TPZ (m):
Poor	10.8
1-5 years	SRZ (m):
Medium	3.30

Lopped main stem with cavity and bracket fungi

Third party ownership DBH estimated

Tree Number: 108



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Eucalyptus bicostata Eurabbie Native DBH (cm): Mature 78 19m x 10m TPZ (m): Good 9.36 Fair SRZ (m): 10-20 years 3.10 Medium

Deadwood throughout the canopy

Th NACE DONNA RANGES STUANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 170 of 221 SIGNED:



(cm):

(m):

Tree Number: 109



Botanical Name: Eucalyptus bicostata Common Name: Eurabb Native Origin: Mature Tree Age: H x W: 18m x Health: Good Good Structure: ULE: 20+ ye **Retention Value:** Mediur None Defects:

pie	
,	DBH (cm
,	77
10m	TPZ (m):
	9.24
ars	SRZ (m)
n	3.09

Comments:

Tree Number: 110



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Third party ownership DBH estimated

Eucalyptus bicostata	
Eurabbie	
Native	
Mature	ДВН (ст):
22m x 16m	115
Good	TPZ (m):
Fair	13.8
10-20 years	SRZ (m):
High	3.65

Extended branches and deadwood throughout the canopy

Third party ownership DBH estimated

Tree Number: 111



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Comments:

Pinus radiata **Monterey Pine** Exotic DBH (cm): Mature 12m x 10m TPZ (m): Good 5.64 Fair SRZ (m): 10-20 years 2.51 Medium Leaning main stem

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Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Monterey Pine Exotic Mature 14m x 10m Good Good 20+ years Medium Leaning main stem

Pinus radiata

DBH (cm):
TPZ (m):
5.28
SRZ (m):
2.44

Comments:

Tree Number: 113



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
6m x 2m	20
Dead	TPZ (m):
Poor	2.4
0 years	SRZ (m):
Low	1.75

Decay in main stem and deadwood in canopy

Tree Number: 114



Botanical Name:	
Common Name:	
Origin:	
Tree Age:	
H x W:	
Health:	
Structure:	
ULE:	
Retention Value:	
Defects:	

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
Mataro	50
17m x 8m	
Good	TPZ (m):
Good	6
20+ years	SRZ (m):
Medium	2.57

Deadwood throughout the canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 172 of 221 SIGNED:





Botanical Name: Common Name: Origin:

Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Monterey Pine	
Exotic	
Mature	DBH (cm):
18m x 10m	67
Good	TPZ (m):
Good	8.04
20+ years	SRZ (m):
Medium	2.91
Deadwood throughout the canopy	

Pinus radiata

Comments:

Tree Number: 116



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
18m x 12m	69
Good	TPZ (m):
Good	8.28
20+ years	SRZ (m):
Medium	2.95

Deadwood throughout the canopy

Tree Number: 117



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:

Comments:

Defects:

Comments:

Pinus radiata Monterey Pine Exotic Mature 15m x 9m Good Fair 10-20 years Medium

DBH (cm): 36 TPZ (m): 4.32 SRZ (m): 2.24

Codominant stems with included union

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack⁶Wiltshire Page: 173 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Monterey Pine Exotic Mature 15m x 9m Fair Fair Fair 10-20 years Low Deadwood throughout the canopy

Comments:

suppessed

Pinus radiata

Tree Number: 119



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata Monterey Pine Exotic Mature 19m x 10m Good Good 20+ years Medium Leaning main stem

DBH (cm): 55 TPZ (m): 6.6 SRZ (m): 2.68

.....



Comments:

Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Pinus radiata Monterey Pine Exotic Mature 9m x 6m Fair Fair 10-20 years Low Codominant stems



sup MSEEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack 620 ftpshire

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Botanical Name: Common Name: Origin: Tree Age: H x W:

Hee Age.	
H x W:	
Health:	
Structure:	
ULE:	
Retention Value:	
Defects:	

79
TPZ (m):
9.48
SRZ (m):
3.12

Leaning main stem with evidence of ground heave

Comments:

Tree Number: 122



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata Monterey Pine Exotic Mature 16m x 12m Good Good 20+ years Medium Leaning main stem

Pinus radiata

DBH (cm): 49 TPZ (m): 5.88 SRZ (m): 2.55

Comments:

Tree Number: 123

Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata Monterey Pine Exotic Mature 18m x 10m Good Good 20+ years Medium Leaning main stem

DBH (cm): 49 TPZ (m): 5.88 SRZ (m): 2.55

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 175 of 221 SIGNED:





Botanical Name: Pinus radiata Common Name: Monterey Pine Exotic Origin: Mature Tree Age: H x W: 17m x 8m Health: Good Structure: Good ULE: 20+ years **Retention Value:** Medium None Defects:

DBH (cm):
37
TPZ (m):
4.44
SRZ (m):
2.27

Tree Number: 125



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
20m x 14m	85
Good	TPZ (m):
Fair	10.2
10-20 years	SRZ (m):
Medium	3.22

Codominant included main stems with dead, included codominant branches throughout the canopy

Comments:

Tree Number: 126

Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
19m x 14m	82
Good	TPZ (m):
Good	9.84
20+ years	SRZ (m):
Medium	3.17

Deadwood throughout the canopy

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 176 of 221 SIGNED:







Botanical Name: Pinus radiata Monterey Pine Common Name: Exotic Origin: Tree Age: Mature 15m x 8m H x W: Health: Good Structure: Good ULE: 20+ years **Retention Value:** Medium None Defects:

DBH (cm):
44
TPZ (m):
5.28
SRZ (m):
2.44

Comments:

Tree Number: 128



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
17m x 9m	47
Good	TPZ (m):
Good	5.64
20+ years	SRZ (m):
Medium	2.51

Deadwood throughout the canopy

Tree Number: 129



Co	m	m	en	ts	

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
20m x 15m	72
Good	TPZ (m):
Good	8.64
20+ years	SRZ (m):
Medium	3.00

Deadwood throughout the canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 177 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
17m x 12m	48
Good	TPZ (m):
Good	5.76
20+ years	SRZ (m):
Medium	2.53
Deadwood throughout	the canopy

Comments:

Tree Number: 131



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Monterey Pine	
Exotic	
Mature	DBH (cm):
16m x 14m	49
Good	TPZ (m):
Good	5.88
20+ years	SRZ (m):
Medium	2.55

Pinus radiata

Deadwood throughout the canopy

Tree Number: 132



Comments:

Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
18m x 15m	70
Good	TPZ (m):
Fair	8.4
5-10 years	SRZ (m):
Low	2.97

Included codominant main stems and included codominant canopy branches

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 178 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata		
Monterey Pine		
Exotic		
Mature		
	68	
17m x 16m		
Good	TPZ (m):	
Fair	8.16	
10-20 years	SRZ (m):	
Medium	2.93	
Lopped branches and	deadwood throughou	Jt

canopy

Comments:

Tree Number: 134



Tree Number: 135



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
15m x 9m	41
Fair	TPZ (m):
Fair	4.92
10-20 years	SRZ (m):
Low	2.37
Deal and the state	

Deadwood throughout the canopy

Comments:

Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata Monterey Pine Exotic Mature 18m x 16m Good Fair 10-20 years Medium

suppessed

DBH (cm): 79 TPZ (m): 9.48 SRZ (m): 3.12

Included codominant main stem and dead canopy branches

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 179 of 221 SIGNED:



Tree Number: 136



Botanical Name:

Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
20m x 17m	108
Good	TPZ (m):
Fair	12.96
10-20 years	SRZ (m):
Medium	3.56

Included codominant main stem and dead, extended canopy branches

Comments:

Tree Number: 137



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
18m x 14m	66
Good	TPZ (m):
Good	7.92
20+ years	SRZ (m):
Medium	2.89

Leaning main stem and deadwood in canopy

Comments:

Comments:

Tree Number: 138



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
15m x 12m	49
Good	TPZ (m):
Good	5.88
20+ years	SRZ (m):
Medium	2.55

Deadwood throughout the canopy

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 180 of 221 SIGNED:




Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
18m x 15m	80
Good	TPZ (m):
Fair	9.6
5-10 years	SRZ (m):
Low	3.14

Codominant included main stems with dead, included codominant branches throughout the canopy

Comments:

Tree Number: 140



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata Monterey Pine Exotic Mature 12m x 6m Fair Fair 5-10 years Low None

suppessed

DBH (cm): 29 TPZ (m): 3.48 SRZ (m): 2.05

Comments:

Tree Number: 141



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata Monterey Pine Exotic Mature 16m x 9m Good Good 20+ years Medium

DBH (cm): 47 TPZ (m): 5.64 SRZ (m): 2.51

Deadwood throughout the canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 181 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata		
Monterey Pine		
Exotic		
Mature		
matare	44	
16m x 9m		
Good	TPZ (m):	
Fair	5.28	
10-20 years	SRZ (m):	
Low	2.44	
Codominant and dead canopy branches		

Comments:

Tree Number: 143



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
19m x 16m	69
Good	TPZ (m):
Good	8.28
20+ years	SRZ (m):
Medium	2.95

Deadwood throughout the canopy

Tree Number: 144



Botanical Name:	Pinus radiata	
Common Name:	Monterey Pine	
Origin:	Exotic	
Tree Age:	Mature	ЛВН (ст):
H x W:	18m x 15m	79
Health:	Good	TPZ (m):
Structure:	Fair	9.48
ULE:	10-20 years	SRZ (m):
Retention Value:	Medium	3.12
Defects:	Codominant main s dead,codominant b canopy	tem and ranches throughout the
Comments:	MACEDON RANGES PLANNING SCHEM DEVELOPMENT PLAN: DP/2009/12/C	
Axiom Tree Manag	ement Pty Ltd	2023

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Botanical Name:

Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
	22
15m x 5m	
Fair	TPZ (m):
Fair	2.64
F 40	SR7 (m):
5-10 years	0112 (iii).
Low	1.82
Deadwood throughout the canopy	

Comments:

Tree Number: 146



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
18m x 16m	54
Good	TPZ (m):
Good	6.48
20+ years	SRZ (m):
Medium	2.66

Deadwood throughout the canopy

Tree Number: 147



Botanical Name:	Pinus radiata	
Common Name:	Monterey Pine	
Origin: Tree Age: H x W: Health: Structure: ULE:	Exotic Mature 18m x 16m Good Fair 10-20 years	DBH (cm): 82 TPZ (m): 9.84 SRZ (m):
Retention Value:	Medium	3.17
Defects:	Codominant main s dead,codominant b canopy	stem and pranches throughout the
Comments:	MACEDON F	RANGES PLANNING SCHEM ENT PLAN: DP/2009/12/C
Axiom Tree Manag	Date: 20/11	/2023 Officer: Park ⁷¹ Willshire

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All



Tree Number: 148



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
16m x 14m	49
Good	TPZ (m):
Fair	5.88
5-10 years	SRZ (m):
Low	2.55
l eaning main stem a	hoowbeeh hou

earning main stem and deadwood throughout canopy

Comments:

Tree Number: 149



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (ст) :
16m x 15m	68
Good	TPZ (m):
Good	8.16
20+ years	SRZ (m):
Medium	2.93

Deadwood throughout the canopy

Comments:

Tree Number: 150

Botanical Name:	Pinus radiata			
Common Name:	Monterey Pine			
Origin:	Exotic			
Tree Age:	Mature	DBH (cm):		
H x W:	19m x 17m	102		
Health:	Good	TPZ (m):		
Structure:	Poor	12.24		
ULE:	5-10 years	SRZ (m):		
Retention Value:	Low	3.47		
Defects:	Codominant includ dead, included coo throughout the can	Codominant included main stems with dead, included codominant branches throughout the canopy		
Comments:	MACEDON I DEVELOPMI	MACEDON RANGES PLANNING SCHEMI DEVELOPMENT PLAN: DP/2009/12/C		
Axiom Tree Manage	ement Pty Lt	Date: 20/11/2023		

Authorised Officer: Jack⁷Wiltshire

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Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value:

Pinus radiata		
Monterey Pine		
Exotic		
Mature	рен (cm):	
4.4	40	
14m x 9m	TD7 (m).	
Good	1 PZ (m):	
Good	4.8	
20+ years	SRZ (m):	
Medium	2.34	
Deadwood throughout the canopy		

Comments:

Defects:

Tree Number: 152



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
16m x 16m	67
Good	TPZ (m):
Good	8.04
20+ years	SRZ (m):
Medium	2.91

Deadwood throughout the canopy

Tree Number: 153



Botanical Name:	Pinus radiata	
Common Name:	Monterey Pine	
Origin:	Exotic	
Tree Age:	Mature	
H x W:	18m x 16m	
Health:	Good	
Structure:	Fair	
ULE:	10-20 years	
Retention Value:	Medium	
Defects:	Deadwood in car stems with incluc	

Comments:

DBH (cm): 79 TPZ (m): 9.48 SRZ (m): 3.12

Deadwood in canopy and codominant stems with included union

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack⁷Wiltshire Page: 185 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

i ilido l'ddiata		
Monterey Pine		
Exotic		
Mature		
10m x 10m	78	
18m x 16m	TP7 (m)-	
Good	1 F Z (111).	
Fair	9.36	
10-20 years	SRZ (m):	
Medium	3.10	
Codominant stems with included union		

Pinus radiata

Comments:

Tree Number: 155



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
18m x 15m	69
Good	TPZ (m):
Good	8.28
20+ years	SRZ (m):
Medium	2.95

Deadwood throughout the canopy



CO	mn	ner	nts:

Comments:

Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:	
Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:	Botanical Name:
Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:	Common Name:
Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:	Origin:
H x W: Health: Structure: ULE: Retention Value: Defects:	Tree Age:
Health: Structure: ULE: Retention Value: Defects:	H x W:
Structure: ULE: Retention Value: Defects:	Health:
ULE: Retention Value: Defects:	Structure:
Retention Value: Defects:	ULE:
Defects:	Retention Value:
	Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
18m x 15m	72
Good	TPZ (m):
Fair	8.64
10-20 years	SRZ (m):
Medium	3.00

Deadwood in canopy and codominant stems with included union

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack⁷Wiltshire Page: 186 of 221 SIGNED:



Tree Number: 157



Botanical Name:	Pinus radiata		
Common Name:	Monterey Pine		
Origin:	Exotic		
Tree Age:	Mature	DBH (cm):	
H x W:	17m x 16m	114	
Health:	Good	TPZ (m):	
Structure:	Poor	13.68	
ULE:	5-10 years	SRZ (m):	
Retention Value:	Low	3.64	
Defects:	Codominant included dead, included codo throughout the cano	Codominant included main stems with dead, included codominant branches throughout the canopy	

Tree Number: 158



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
14m x 16m	58
Good	TPZ (m):
Fair	6.96
10-20 years	SRZ (m):
Medium	2.74

Codominant main stems and deadwood throughout the canopy

Tree Number: 159



Botanical Name:	Pinus radiata	
Common Name:	Monterey Pine	
Origin:	Exotic	
Tree Age:	Mature	DBH (cm):
H x W:	17m x 16m	70
Health:	Good	TPZ (m):
Structure:	Poor	8.4
ULE:	5-10 years	SRZ (m):
Retention Value:	Low	2.97
Defects:	Deadwood in canopy a stems with included up	and codominant

Comments:

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack 760 hitshire

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Tree Number: 160



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
	103
17m x 18m	、
Good	TPZ (m):
Poor	12.36
5-10 years	SRZ (m):
Low	3.49
Included codominant r	nain stem and dead

canopy branches

Comments:

Tree Number: 161



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
15m x 14m	67
Good	TPZ (m):
Good	8.04
20+ years	SRZ (m):
Medium	2.91

Deadwood throughout the canopy

Tree Number: 162



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
12m x 9m	36
Good	TPZ (m):
Poor	4.32
5-10 years	SRZ (m):
Low	2.24

Codominant stems with included union

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack⁷Wiltshire Page: 188 of 221 SIGNED:





Botanical Name: Pinus radiata **Common Name:** Exotic Origin: Mature Tree Age: H x W: Health: Good Structure: Fair ULE: **Retention Value:** Medium **Defects:**

Monterey PineExoticDBH (cm):Mature8916m x 18mTPZ (m):Good10.68Fair10.6810-20 yearsSRZ (m):Medium3.28

Codominant main stems and deadwood and extended branches throughout the canopy

Tree Number: 164



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiataMonterey PineExoticDBH (cm):
88Mature8816m x 18mTPZ (m):
10.56Good10.56Fair10.5610-20 yearsSRZ (m):
3.26

Deadwood in canopy and codominant stems with included union

Tree Number: 165



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:

Retention Value:

Comments:

Prunus cerasifera Cherry Plum Exotic Mature 4m x 3m Fair Fair 5-10 years Low Codominant stems

DBH (cm): 18 TPZ (m): 2.16 SRZ (m): 1.68

Comments:

Structure:

ULE:

Defects:

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack⁷Wiltshire Page: 189 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value: Defects:**

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
16m x 15m	67
Good	TPZ (m):
Good	8.04
20+ years	SRZ (m):
Medium	2.91
Deadwood throughout the canopy	

Comments:

Tree Number: 167



Tree Number: 168

Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
15m x 16m	89
Good	TPZ (m):
Poor	10.68
5-10 years	SRZ (m):
Low	3.28

Codominant included main stems with dead, included codominant branches throughout the canopy

Comments:

Determined Norman	Dim	un radiata		
Botanical Name:	PIII	Pinus radiata		
Common Name:	Мо	onterey Pine		
Origin:	Exe	otic		
Tree Age:	Ма	ature		
H x W:	16	m x 16m	92	
Health:	Go	od	TPZ (m):	
Structure:	Fai	ir	11.04	
ULE:	20-	+ years	SRZ (m):	
Retention Value:	Me	edium	3.33	
Defects:	Co dea thro	dominant stems wit adwood and extend oughout the canopy	th decay and ed branches v	
Comments:		MACEDON RAI	NGES PLANNIN F PLAN: DP/200	G SCHEME 9/12/C
Axiom Tree Managem	ient Pty Lto	Date: 20/11/20 Authorised Off)23 icer: Jack ⁷⁸ Wilts	hire

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Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Monterey Pine Exotic Mature 16m x 9m Good Good 20+ years Medium None

Pinus radiata

Tree Number: 170



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Eucalyptus globulus Blue Gum Native Semi mature 9m x 7m Good Good 20+ years Low None

DBH (cm): 28 TPZ (m): 3.36 SRZ (m): 2.02

Tree Number: 171



Comments:

Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects: Pinus radiata Monterey Pine Exotic Semi mature 7m x 6m Good Good 20+ years Low None

DBH (cm): 24 TPZ (m): 2.88 SRZ (m): 1.89

Comments:







Botanical Name:	Pinus radiata
Common Name:	Monterey Pine
Origin:	Exotic
Tree Age:	Semi mature
H x W:	12m x 8m
Health:	Good
Structure:	Good
ULE:	20+ years
Retention Value:	Low
Defects:	None

DBH (cm):
32
TPZ (m):
3.84
SRZ (m):
2.13

Tree Number: 173



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Comments:

Pinus radiata
Monterey Pine
Exotic
Mature
16m x 9m
Good
Good
20+ years
Medium
None

DBH (cm):	
40	
TPZ (m):	
4.8	
SRZ (m):	
2.34	

Tree Number: 174



Pinus radiata
Monterey Pine
Exotic
Mature
18m x 18m
Good
Fair
10-20 years
Low

DBH (cm): 94 TPZ (m): 11.28 SRZ (m): 3.36

Codominant, leaning stems with deadwood throughout the canopy

Comments:

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack⁸Wiltshire Page: 192 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age:

H x W:

Health:

ULE:

Defects:

Structure:

Matu 15m Fair Fair 10-20 **Retention Value:** Low Deadwood throughout the canopy

Pinus radiata

Monterey Pine	
Exotic	
Mature	DBH (cm):
15m x 10m	39
Fair	TPZ (m):
Fair	4.68
10-20 years	SRZ (m):
Low	2.32

Comments:

Tree Number: 176



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
18m x 18m	99
Good	TPZ (m):
Fair	11.88
10-20 years	SRZ (m):
Medium	3.43

Codominant stems with decay and deadwood and extended branches throughout the canopy

Tree Number: 177



Botanical Name:	Pir
Common Name:	Мс
Origin:	Ex
Tree Age:	Ma
H x W:	18
Health:	Go
Structure:	Fa
ULE:	10
Retention Value:	Me
Defects:	De cai

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
40 40	86
18m x 18m	
Good	1 PZ (m):
Fair	10.32
10.20 vooro	SRZ (m):
10-20 years	0.00
Medium	3.23

adwood and extended branches in nopy

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 193 of 221 SIGNED:





Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
40 40	106
19m x 18m	
Good	1PZ (M):
Good	12.72
20+ years	SRZ (m):
Medium	3.53

Codominant main stem and codominant branches and deadwood throughout the canopy

Tree Number: 179



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Monterey Pine Exotic Semi mature 8m x 6m Good Fair 5-10 years Low None

suppessed

Pinus radiata

DBH (cm): 28 TPZ (m): 3.36 SRZ (m): 2.02

Comments:

Tree Number: 180



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata Monterey Pine Exotic Mature 17m x 18m Good Good 20+ years Medium

DBH (cm): 101 TPZ (m): 12.12 SRZ (m): 3.46

Deadwood throughout the canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 194 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Monterey Pine	
Exotic	
Mature	
	96
16m x 18m	、
Good	TPZ (m):
Good	11.52
20+ vears	SRZ (m):
	3 30
Medium	0.00
Deadwood throughout the canopy	

Comments:

Tree Number: 182



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata Monterey Pine Exotic Semi mature 12m x 9m Good Good 20+ years Low None

Pinus radiata

DBH (cm): 45
TPZ (m):
5.4
SRZ (m):
2.46

naa Nuumbar, 102



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata Monterey Pine Exotic Semi mature 9m x 6m Good Good 20+ years Low None

DBH (cm): 29 TPZ (m): 3.48 SRZ (m): 2.05

Comments:

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 195 of 221 SIGNED:





Botanical Name:	Pinus radiata
Common Name:	Monterey Pine
Origin:	Exotic
Tree Age:	Mature
H x W:	16m x 9m
Health:	Good
Structure:	Good
ULE:	20+ years
Retention Value:	Medium
Defects:	None

DBH (cm): 56 TPZ (m): 6.72 SRZ (m): 2.70

Tree Number: 185



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Monterey Pine	
Exotic Mature	DBH (cm):
17m x 12m Good	69 TPZ (m):
Good	8.28 SRZ (m):
20+ years Medium	2.95

Pinus radiata

Deadwood throughout the canopy

Tree Number: 186



Botanical Name:
Common Name:

Comments:

Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Comments:

Monterey Pine Exotic Mature 14m x 9m Good Poor 5-10 years Low 2.49	Pinus radiata	
Exotic DBH (cm): Mature 46 14m x 9m Good TPZ (m): 5-10 years SRZ (m): Low 2.49	Monterey Pine	
Mature JBH (cm): 14m x 9m 46 Good TPZ (m): Poor 5.52 5-10 years SRZ (m): Low 2.49	Exotic	
14m x 9m 46 Good TPZ (m): Poor 5.52 5-10 years SRZ (m): Low 2.49	Mature	
Good IP2 (m): Poor 5.52 5-10 years SRZ (m): Low 2.49	14m x 9m	46
Poor 5.52 5-10 years SRZ (m): Low 2.49	Good	TPZ (m):
5-10 years SRZ (m): Low 2.49	Poor	5.52
Low 2.49	5-10 years	SRZ (m):
	Low	2.49

Lopped main stem and deadwood in canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 196 of 221 SIGNED:





Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiataMonterey PineExoticMature17m x 18mGoodPoor5-10 yearsLow3.42

Codominant included main stems with dead, included codominant branches throughout the canopy

- - -

Comments:

Tree Number: 188



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

DBH (CM):
48
TPZ (m):
5.76
SRZ (m):
2.53

Leaning main stem and deadwood in canopy

Comments:

Tree Number: 189



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata Monterey Pine Exotic Mature 17m x 10m Good Good 20+ years Medium None

DBH (cm): 54 TPZ (m): 6.48 SRZ (m): 2.66

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 197 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Monterey Pine	
Exotic	
Mature	ДВП (СШ).
	56
18m x 10m	
Good	TPZ (m):
Good	6.72
20+ years	SRZ (m):
Medium	2.70
moduli	
Deadwood throughout the canopy	

Pinus radiata

Comments:

Tree Number: 191



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Comments:

60
TPZ (m):
7.2
SRZ (m):
2.78

Leaning main stem and deadwood throughout canopy

Tree Number: 192



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
	49
15m x 10m	
Good	TPZ (m):
Poor	5.88
5-10 years	SRZ (m):
Low	2.55

Included codominant main stems and included codominant canopy branches

MUINACEDONARIANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiftshire Page: 198 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	D
16m x 16m	
Good	TF
Fair	
10-20 years	S
Medium	
Extended branches an	nd dea

Pinus radiata **Monterey Pine**

Exotic

Mature

Fair

Fair

Low

16m x 15m

5-10 years

DBH (cm):
77
TPZ (m):
9.24
SRZ (m):
3.09

DBH (cm):

66

TPZ (m):

7.92

SRZ (m):

2.89

dwood throughout the canopy

Comments:

Tree Number: 194



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Tree Number: 195



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata Monterey Pine Exotic Semi mature 10m x 6m Good Fair 20+ years Low

DBH (cm): 28 TPZ (m): 3.36 SRZ (m): 2.02

Codominant stem and canopy branches

Codominant and dead canopy branches

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 199 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	ДВП (СШ) .
	72
17m x 14m	、
Good	TPZ (m):
Good	8.64
6000	SP7 (m)-
20+ years	3KZ (III).
Medium	3.00
Deadwood throughout the canopy	

Comments:

Tree Number: 197



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
15m x 8m	52
Good	TPZ (m):
Poor	6.24
5-10 years	SRZ (m):
Low	2.62

Codominant included main stems with dead, included codominant branches throughout the canopy

Comments:

Tree Number: 198



Botanical Name:	Pin
Common Name:	Мо
Origin:	Exc
Tree Age:	Ma
H x W:	14r
Health:	Go
Structure:	Fai
ULE:	10-
Retention Value:	Lov
Defects:	Dea

Comments:

nus radiata nterey Pine otic DBH (cm): ature 39 m x 8m TPZ (m): od 4.68 ir SRZ (m): 20 years 2.32 N

adwood throughout the canopy

sup MASSEE DON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 200 of 221 SIGNED:



DBH (cm):

98

TPZ (m):

11.76

SRZ (m):

3.42

Tree Number: 199



Botanical Name: Pinus radiata **Common Name: Monterey Pine** Exotic Origin: Mature Tree Age: H x W: 18m x 18m Health: Good Fair Structure: ULE: 20+ years **Retention Value:** Medium Codominant main stems and deadwood **Defects:** and extended branches throughout the

canopy

Tree Number: 200



Botanical Name:	
Common Name:	
Origin:	
Tree Age:	
H x W:	
Health:	
Structure:	
ULE:	
Retention Value:	
Defects:	

Comments:

Pinus radiata Monterey Pine Exotic DBH (cm): Semi mature 30 12m x 9m TPZ (m): Fair 3.6 Fair SRZ (m): 5-10 years 2.08 Low

Deadwood throughout the canopy

Comments:



Botanical Name:	
Common Name:	
Origin:	
Tree Age:	
H x W:	
Health:	
Structure:	
ULE:	
Retention Value:	
Defects:	

Comments:

Pinus radiata **Monterey Pine** Exotic Mature 18m x 14m Good Fair 5-10 years

suppessed

Low

DBH (cm): 79 TPZ (m): 9.48 SRZ (m): 3.12

Deadwood in canopy and codominant stems with included union

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 201 of 221 SIGNED:





Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
18m x 18m	93
Good	TPZ (m):
Poor	11.16
5-10 years	SRZ (m):
Low	3.34

Deadwood in canopy and codominant stems with included union

Comments:

Tree Number: 203



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
18m x 16m	89
Good	TPZ (m):
Poor	10.68
5-10 years	SRZ (m):
Low	3.28

Codominant included main stems with dead, included codominant branches throughout the canopy

Comments:

Comments:

Tree Number: 204



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
17m x 16m	77
Good	TPZ (m):
Fair	9.24
10-20 years	SRZ (m):
Low	3.09

Codominant main stem and deadwood in canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 202 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Monterey Pine	
Exotic	
Mature	DBH (ст):
	68
15m x 14m	
Good	TPZ (m):
Good	8.16
Good	
10-20 years	5RZ (M):
Medium	2.93
Wediam	
Deadwood throughout the canopy	

Pinus radiata

Comments:

Tree Number: 206



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
17m x 12m	59
Good	TPZ (m):
Good	7.08
20+ years	SRZ (m):
Medium	2.76

Deadwood throughout the canopy

Tree Number: 207



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
indian o	48
16m x 10m	
Good	TPZ (m):
Fair	5.76
10-20 years	SRZ (m):
Low	2.53

Codominant included stems and dead branches throughout the canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 203 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata
Monterey Pine
Exotic
Mature
22m x 18m
Good
Poor
5-10 years
Low
Codominant included mair

Pinus radiata Monterey Pine

Exotic

Mature

Good

Good

20+ years

Medium

20m x 18m

DBH (cm): 112 TPZ (m): 13.44 SRZ (m): 3.61

DBH (cm):

89

TPZ (m):

10.68

SRZ (m):

3.28

Codominant included main stems and dead extended canopy branches

Comments:

Tree Number: 209



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Tree Number: 210



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
17m x 16m	78 TPZ (m) :
Good	
Good	9.36
20+ years	SRZ (m):
Medium	3.10

Deadwood throughout the canopy

Deadwood throughout the canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 204 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
17m x 16m	72
Good	TPZ (m):
Good	8.64
20+ years	SRZ (m):
Medium	3.00
Deadwood throughout the canopy	

Comments:

Tree Number: 212



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

ДВН (ст):
92
TPZ (m):
11.04
SRZ (m):
3.33

Codominant, leaning stems with included unions

Tree Number: 213



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (ст):
16m x 16m	82
Fair	TPZ (m):
Fair	9.84
5-10 years	SRZ (m):
Low	3.17

Deadwood throughout the canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 205 of 221 SIGNED:





Botanical Name: Comm

Comments:

Common Name:	Monte
Origin:	Exotic
Tree Age:	Semi
H x W:	7m x (
Health:	Good
Structure:	Good
ULE:	20+ ye
Retention Value:	Low
Defects:	None

nterey Pine
tic
ni mature
x 6m
od
od
years
,
-

Pinus radiata

DBH (cm):
28
TPZ (m):
3.36
SRZ (m):
2.02

Tree Number: 215



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Monterey Pine
Exotic
Semi mature
6m x 5m
Good
Good
20+ years
Low
None

Pinus radiata

DBH (cm):
25
TPZ (m):
3
SRZ (m):
1.92

Comments:

Tree Number: 216



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Monterey Pine
Exotic
Mature
17m x 16m
Good
Fair
10-20 years
Low

Pinus radiata

DBH (cm):	
69	
TPZ (m):	
8.28	
SRZ (m):	
2.95	

Codominant main stem and deadwood in canopy

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 206 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
18m x 16m	91
Good	TPZ (m):
Poor	10.92
5-10 years	SRZ (m):
Low	3.31
Codominant included	main stems and

ant included main stems and dead extended canopy branches

Comments:

Tree Number: 218



Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Pinus radiata Monterey Pine Exotic Young 6m x 3m Good Good 20+ years Low None

Group of approximately 3 individuals

DBH (cm): 18 TPZ (m): 2.16 SRZ (m): 1.68

Comments:

Tree Number: 219



Botanical Name:	Pinus radiata	
Common Name:	Monterey Pine	
Origin:	Exotic	
Tree Age:	Mature	DBH (cm):
H x W:	18m x 16m	98
Health:	Good	TPZ (m):
Structure:	Poor	11.76
ULE:	5-10 years	SRZ (m):
Retention Value:	Low	3.42
Defects:	Codominant included dead, included codom throughout the canopy	main stems with inant branches
Comments:	MACEDON RAI	NGES PLANNING SCHEME F PLAN: DP/2009/12/C

Axiom Tree Management Pty Ltd

Authorised Officer: Jack Wiltshire Page: 207 of 221 SIGNED:

Date: 20/11/2023





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: Retention Value: Defects:

Pinus radiata		
Monterey Pine		
Exotic		
Mature	ДВП (СШ) .	
	78	
15m x 14m	、	
Good	TPZ (m):	
Fair	9.36	
10-20 years SRZ (m):		
Low 3.10		
Codominant and dead canopy branches		

Comments:

Tree Number: 221



Monterey PineExoticDBH (cm):Mature10116m x 16mTPZ (m):Good12.12Poor12.125-10 yearsSRZ (m):Low3.46	Pinus radiata	
Exotic DBH (cm): Mature 101 16m x 16m TPZ (m): Good 12.12 Poor SRZ (m): Low 3.46	Monterey Pine	
Mature DBH (cm): 16m x 16m 101 Good TPZ (m): Poor 12.12 5-10 years SRZ (m): Low 3.46	Exotic	
16m x 16m 101 Good TPZ (m): Poor 12.12 5-10 years SRZ (m): Low 3.46	Mature	DBH (Cm):
Good TPZ (m): Poor 12.12 5-10 years SRZ (m): Low 3.46	16m x 16m	101
Poor 12.12 5-10 years SRZ (m): Low 3.46	Good	TPZ (m):
5-10 years SRZ (m): Low 3.46	Poor	12.12
Low 3.46	5-10 years	SRZ (m):
	Low	3.46

Codominant included main stems with dead, included codominant branches throughout the canopy

Comments:

Comments:

Tree Number: 222



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Pinus radiata	
Monterey Pine	
Exotic	DBH (cm):
Mature	48
14m x 12m	TPZ (m):
Good	5.76
20+ years	SRZ (m):
Medium	2.53

Deadwood throughout the canopy

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 208 of 221 SIGNED:





Botanical Name: Common Name: Origin: Tree Age: H x W: Health: Structure: ULE: **Retention Value:** Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	
14m x 10m	52
Good	TPZ (m):
Good	6.24
20+ years	SRZ (m):
Medium 2.62	
Deadwood throughout the canopy	

Comments:

Tree Number: 224



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	рен (cm):
17m x 16m	96
Good	TPZ (m):
Poor	11.52
5-10 years	SRZ (m):
Low	3.39

Included codominant main stem and dead, extended canopy branches

Tree Number: 225



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (cm):
17	89
17m x 16m	
Good	TPZ (m):
Fair	10.68
5-10 years	SRZ (m):
Low	3.28

Included codominant main stem and dead canopy branches

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 209 of 221 SIGNED:





Pinus radiata **Botanical Name:** Common Name: Ν Origin: Ε Tree Age: H x W: Health: (Structure: ULE: **Retention Value:** Ν Defects:

Monterey Pine
Exotic
Mature
16m x 14m
Good
Good
20+ years
Medium
None

DBH (cm) : 67
1 PZ (m):
8.04
SRZ (m):
2.91

Comments:

Tree Number: 227



Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Comments:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	DBH (ст):
18m x 16m	98
Good	TPZ (m):
Poor	11.76
10-20 years	SRZ (m):
Low	3.42

Codominant stems and codominant cincluded dead canopy branches

Tree Number: 228



Botanical Name:	Pinus radiata		
Common Name:	Monterey Pine		
Origin:	Exotic		
Tree Age:	Mature	DBH (cm):	
H x W:	18m x 15m	77	
Health:	Good	TPZ (m):	
Structure:	Poor	9.24	
ULE:	5-10 years	SRZ (m):	
Retention Value:	Low	3.09	
Defects:	Codominant includ dead, included coo throughout the can	odominant included main stems with ad, included codominant branches roughout the canopy	
Comments:	MACEDON I DEVELOPMI	MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C	
Axiom Tree Manag	ement Pty Ltd	/2023	

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Botanical Name:
Common Name:
Origin:
Tree Age:
H x W:
Health:
Structure:
ULE:
Retention Value:
Defects:

Pinus radiata	
Monterey Pine	
Exotic	
Mature	ДВП (СШ) .
18m v 16m	100
	TPZ (m):
Good	10
Fair	12
10-20 years	SRZ (m):
Medium	3.44

Codominant stem and canopy branches

Comments:

Tree Number: 230



Botanical Name:	Pinus radiata	
Common Name:	Monterey Pine	
Origin:	Exotic	
Tree Age:	Semi mature	DBH (cm):
H x W:	6m x 6m	25
Health:	Fair	TPZ (m):
Structure:	Fair	3
ULE:	5-10 years	SRZ (m):
Retention Value:	Low	1.92
Defects: Codominant canopy branches		/ branches

Comments:

suppessed

MACEDON RANGES PLANNING SCHEME **DEVELOPMENT PLAN: DP/2009/12/C** Axiom Tree Management Pty Lt Authorised Officer: Jack Wiltshire Page: 211 of 221 SIGNED: All



AMENDMENT TO GISBORNE DEVELOPMENT PLAN 4A | 75 WILLOWBANK ROAD, GISBORNE

Appendix H Stormwater Management Plan

SAM AND ANGELA GIUDICE

MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 212 of 221 SIGNED:



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BCS Ref: 13255

Revision: A

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75 WILLOWBANK ROAD GISBORNE

STORMWATER MANAGEMENT REPORT



NOVEMBER 29, 2021 S & A GUIDICE MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 213 of 221 SIGNED:

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MACEDON RANGES PLANNING SCHEME DEVELOPMENT PLAN: DP/2009/12/C Date: 20/11/2023 Authorised Officer: Jack Wiltshire Page: 214 of 221 SIGNED:

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1. INTRODUCTION

BCS Consulting Engineers have been engaged by S & A Guidice to provide a Stormwater Management Report for a proposed 50 lot residential development at 75 Willowbank Road, Gisborne. In doing so this report will outline the steps required to achieve objectives of safe urban development and the responsibility to protect existing waterways and infrastructure. Specifically, the report will outline how existing water quality and stormwater runoff will be conserved. Calculations will also be provided to demonstrate the development's ability to safely convey storms in the range of 1% Average Exceedance Probability (AEP) through the road reserves.

75 Willowbank Road is 5.95 ha in area and located to the south east of the main Gisborne Township. The land currently contains an existing residence close to the north boundary with Willowbank Road and a large amount of open pervious land to the south.

The area is affected by the Central Creek Drainage Scheme No. 6851 which is managed by Melbourne Water. The scheme requires developers to pay a monetary contribution to the construction and maintenance of stormwater treatment facilities downstream of the site.



Figure 1: Central Creek Drainage Scheme plan with subject site.

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2. PROPOSED DEVELOPMENT

This development will subdivide the single parcel into 50 residential lots, varying between 405 and 1205 square metres in area. The existing residence will remain and be contained on a new lot of size 8998 square metres.

The development will tie into the existing developments on all sides allowing the connection of 3 roads running east to west. Road reserve and roadway widths will reflect those in the surrounding developments.



Figure 2: Proposed subdivision at 75 Willowbank Road.

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3. MELBOURNE WATER DRAINAGE SCHEME

The proposed development is required to ensure that stormwater runoff from the increased urban area does not negatively affect downstream environments. Similarly, the development is required to ensure that pollutants from stormwater runoff are removed as would happen in the existing grassland area.

The Melbourne Water Drainage Scheme allows the developer to pay a one off monetary contribution to the construction and maintenance of downstream water treatment and detention facilities in lieu of constructing facilities on the property.

The development is proposing to forego the construction of any significant treatment facilities within the development and pay the full monetary contribution to the relevant authority for both hydraulic and water quality.

4. FLOOD ANALYSIS

The development is bordered on all sides by existing urban residential development with several roads terminating at the property boundaries. It is currently proposed to continue the existing roadways through the development, joining the unfinished roads in an east-west direction. Each of these roadways will carry overland flows in a 1% AEP storm through the site and into the existing road network. A catchment analysis has been undertaken using Vicmap Elevation contours supplied by Department of Environment, Land, Water & Planning and is shown in Appendix A.

It is estimated that the southernmost road ('Road C' as shown in Appendix A) contains the largest catchment at 10.2 hectares. This road was used as a basis for overland flow assessment.

A road reserve cross section similar to neighbouring developments was used to identify the impact of these overland flows and ensure that safety objectives have been met. Hydraulic and hydrologic computations regarding the expected flows are shown in Appendix B. Results found that during a 1% AEP storm the total peak flow would be approximately 1.85m3/s. Given that the underground pipe system is designed for a 10% AEP storm it is expected that the total overland flow found at 'Road C' is 0.7m3/s.

Parameters	Result	Melbourne Water guidelines
Water velocity, V _{av}	1.96 m/s	-
Water max depth, d _{max}	0.25m	-
Water max width	1.4m	-
Average depth, d _{av}	0.13m	0.3m
$V_{av}.d_{av}$	0.25m ² /s	0.35m²/s

Melbourne Water safety objectives and the flood analysis results are summarised below.

Melbourne Water guidelines can be found at <u>https://www.melbournewater.com.au/building-and-works/developer-guides-and-resources/standards-and-specifications/floodway-safety</u>.



5. CONCLUSION

This report has identified a stormwater management strategy for the proposed 50 lot subdivision at 75 Willowbank Road.

The development will meet its stormwater treatment and storage requirements by contributing to the Melbourne Water Central Creek Drainage Scheme.

The upstream catchment for the development was analysed to ensure the roadways can safely convey overland flow during a 1% AEP storm event.

		MACEDON RANGES PLANNING SCHEME
		DEVELOPMENT PLAN: DP/2009/12/C
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7. APPENDICES

APPENDIX A - STORMWATER CATCHMENT PLAN





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APPENDIX B – HYDRAULIC COMPUTATIONS



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Date: 19/11/21

Stormwater Flood Analysis

This analysis aims to verify the capability of all proposed roads to contain and convey 1% AEP stormwater flows through the development safely Catchment Analysis Road A = 39,000 m² , 3.9 ha Road B = 49,000 m² , 4.9 ha Road C = 102,000 m² , 10.2 ha Adopt 10.2 has worst case. Peak Flow $Q = \frac{CIA}{360}$ As per IDM V 5.35 a) Residential lots >600mt to 1000mt C= 0.7 6) Residential road reserves C= 0.75 Adopt C= 0.75 Time of Concentration Assume 1m/s flow velocity + Twin residential time Catchment max flow path = 770m to = 770s + 7min = 19.8min I = 87.2 mm/h For 20min storm 1% AEP $Q = \frac{CIA}{360}$ = 0.75 + 87.2 . 10.2 360 $= 1.85 \, m^3/s$ Reduction for stormwater taken through pipe flow. 10% AEP storm

I= 54.2 mm/h

0.75 x 542 x 10.2 = 1.15 m 3/s R= 360

Total peak overland flow = 1.85 m/s - 1.15 m/s

= 0.70 m3/s



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