ecology & heritage partners

Final Report

Marshall Native Vegetation Precinct Plan

Prepared for

City of Greater Geelong

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Ecology and Heritage Partners Pty Ltd

MELBOURNE: 292 Mt Alexander Road, Ascot Vale VIC 3032 **GEELONG:** 230 Latrobe Terrace, Geelong West Vic 3218
BRISBANE: Level 22, 127 Creek Street, Brisbane QLD 4000 **ADELAIDE:** 22 Greenhill Road, Wayville SA 5034
CANBERRA: PO Box 6067, O'Connor ACT 2602 **SYDNEY:** Level 5, 616 Harris Street, Ultimo, NSW, 2007
www.ehpartners.com.au | (03) 9377 0100

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1 INTRODUCTION

This is the Marshall Native Vegetation Precinct Plan (NVPP) listed under the Schedule to Clause 52.16 of the City of Greater Geelong Planning Scheme. This NVPP includes the information required under section 10 of Guidelines for the removal, destruction or lopping of native vegetation (Department of Environment, Land, Water and Planning [DELWP] 2017a) (Guidelines). The Guidelines state that an NVPP prepared for incorporation into the planning scheme must:

- Specify the purpose and objectives of the plan;
- Specify the area to which the NVPP applies;
- Map and describe the native vegetation that can be removed, destroyed or lopped;
- Map and describe the native vegetation to be retained;
- Set out the offset requirement, determined in accordance the Guidelines, for native vegetation that can be removed, destroyed or lopped;
- Specify management responsibilities and actions for native vegetation to be retained; and,
- Provide an offset statement that includes evidence that an offset that meets offset requirements for the removal of native vegetation is available, and explains how it will be secured in accordance with the Guidelines if the NVPP is incorporated. This statement must also include procedures for how the offset will be secured if the responsibility is divided amongst multiple properties or parties.

The Guidelines (DELWP 2017a) also state that an NVPP must include mechanisms for tracking the removal of native vegetation and corresponding securing of offsets, to ensure that this occurs in accordance with the NVPP.

The removal, destruction or lopping of native vegetation *in accordance* with this NVPP, does not require a planning permit provided conditions and requirements specified in this Native Vegetation Precinct Plan are met.

If native vegetation is proposed to be removed, destroyed or lopped not in accordance with this NVPP, a planning permit to remove native vegetation is required under Clause 52.16 of the City of Greater Geelong Planning Scheme. In this circumstance, an application for a permit must comply with the application requirements specified in the Guidelines. An application to remove native vegetation not in accordance with this incorporated NVPP must be supported by current site information, as per *Assessor's handbook – applications to remove, destroy or lop native vegetation* (Assessor's handbook) (DELWP 2017b). For the purpose of this document, the term 'remove native vegetation' includes to destroy and to lop native vegetation.

1.1 Purpose of the NVPP

The purpose of the Marshall NVPP is to:

- Apply a holistic, landscape wide approach to retention and removal of native vegetation within the Marshall Precinct Structure Plan (PSP) area;
- Specify the native vegetation to be retained and the native vegetation that can be removed, destroyed or lopped without a planning permit;
- Ensure that any removal, destruction or lopping of native vegetation identified in this plan meets the no net loss objective as set out in the Guidelines for the removal, destruction or lopping of native vegetation (DELWP 2017a);
- Streamline the planning approvals process through a landscape approach to native vegetation protection and management;
- Describe the offset requirements for any permitted removal, destruction or lopping of native vegetation as identified in this plan.

1.2 Native vegetation protection objectives to be achieved

The objectives of the Marshall NVPP are:

- Ensure there is no net loss to biodiversity as a result of the approved removal, destruction or lopping of native vegetation. This is achieved by applying the three step approach in accordance with Clause 12.01-2 *Native vegetation management*, Clause 52.16 and the Guidelines (DELWP 2017a);
- Apply a landscape approach to the management of native vegetation within the NVPP area, in accordance with Clause 12.01-1 *Protection of biodiversity* and the Guidelines;
- Manage native vegetation to be retained in accordance with obligations under the *Catchment and Land Protection Act 1994*; and,
- Ensure that areas set aside to protect native vegetation are managed to conserve biodiversity and other values in accordance with the Marshall Precinct Structure Plan.

1.3 Strategic biodiversity context

The biodiversity significance of the Marshall PSP area has been assessed in the following documents, which identify the key biodiversity assets and include mapping and modelling information:

- Ecology and Heritage Partners 2017. Review of native vegetation mapping within the Marshall Precinct, Armstrong Creek Growth Area.
- Ecology and Heritage Partners 2014. Flora and Fauna Survey and Biodiversity Assessment, Marshall Precinct: Armstrong Creek Urban Growth Area.
- Ecology Partners 2011. Flora and Fauna Survey, and Net Gain Assessment. Marshall Precinct: Armstrong Creek Urban Growth Area.

2 AREA TO WHICH THE NVPP APPLIES

The Marshall NVPP applies to all land shown in Map 1, which covers approximately 199 hectares.

Table 1 identifies the properties included within the area to which this NVPP applies. Property ID numbers in Map 1 correspond to those listed in Table 1. The area to which the NVPP applies is bound by the riparian zones of the Barwon River to the north, Barwon Heads Road and private property to the east, Reserve Road to the south and the Melbourne – Warrnambool Railway line to the west (Map 1). The NVPP includes both sides of the road reserves along Barwon Heads Road and Reserve Road (along the precinct boundary), as well as the east side of the Melbourne – Warrnambool Railway line.

Current land use includes agriculture (cropping and grazing) within the undeveloped areas, low density residential use in the existing Marshall Township and hobby farms in the area south towards Reserve Road.

Native vegetation within the road reserve within sections of Woolscour Lane and Horseshoe Bend Road are subject to a Vegetation Protection Overlay 1 (VPO1). Areas of land surrounding Drews Road and Smith Street are subject to Environmental Significance Overlay – Schedule 1 (ESO1). The Barwon River is subject to Environmental Significance Overlay – Schedule 2 (ESO2).

The area south of Reserve Road and the rail reserve are identified as areas not assessed as part of this NVPP (Map 2). For the area south of Reserve Road, refer to the Horseshoe Bend NVPP (Ecology and Heritage Partners 2014). The rail reserve areas require further site assessments to determine their planning permit and offset requirements under the Guidelines (DELWP 2017a).

According to the Victorian Department of Environment, Land, Water and Planning NatureKit Map (DELWP 2019a), Marshall PSP occurs within the Otway Plain Bioregion and is located within the jurisdiction of the Corangamite Catchment Management Authority (CMA) and the City of Greater Geelong municipality.

Table 1. Land included within the area to which this NVPP applies

PSP Property ID	Property Address	Property SPI no.
1	40-60 Drews Road Marshall 3216	2\PS631720
2	62-84 Drews Road Marshall 3216	3\PS631720
3	86-104 Drews Road Marshall 3216	1\TP918723
4	86-104 Drews Road Marshall 3216	1\TP918723 / 1\TP612909
5	91-109 Reserve Road Marshall 3216	1\TP84691
6	115 Reserve Road Marshall 3216	CP169831
7	35 Drews Road Marshall 3216	A\PS528440
8A	16 - 20 Horseshoe Bend Road Marshall 3216	2\PS833028
8B	12-14 Horseshoe Bend Road Marshall 3216	1\PS833028
9	22-30 Horseshoe Bend Road Marshall 3216	2\LP86080

PSP Property ID	Property Address	Property SPI no.
10	67-87 Drews Road Marshall 3216	11~2\PP2421
11	32-60 Horseshoe Bend Road Marshall 3216	12~2\PP2421
12	89-109 Drews Road Marshall 3216	14~2\PP2421
13	62-80 Horseshoe Bend Road Marshall 3216	13~2\PP2421
14	135-153 Reserve Road Marshall 3216	1\TP618413
15	155 Reserve Road Marshall 3216	1\TP539750
16	82-90 Horseshoe Bend Road Marshall 3216	1\TP6652
17	92-108 Horseshoe Bend Road Marshall 3216	1\TP841695
18	157-159 Reserve Road Marshall 3216	1\TP959113
19	161-167 Reserve Road Marshall 3216	1\TP947680
20	25 Horseshoe Bend Road Marshall 3216	1\TP958846
21	27-39 Horseshoe Bend Road Marshall 3216	2\TP958846
22	422-430 Barwon Heads Road Marshall 3216	1\TP943622
23	432-442 Barwon Heads Road Marshall 3216	2\TP943622
24	61-69 Horseshoe Bend Road Marshall 3216	3\TP943622
25	444 Barwon Heads Road Marshall 3216	4\TP943622
26	450-454 Barwon Heads Road Marshall 3216	5\TP943622
27	71-79 Horseshoe Bend Road Marshall 3216	1\TP19665
28	456-468 Barwon Heads Road Marshall 3216	1\TP944760
29	81-89 Horseshoe Bend Road Marshall 3216	1\TP945957
30	470-480 Barwon Heads Road Marshall 3216	1\TP958864
31	91-99 Horseshoe Bend Road Marshall 3216	1\TP958866
32	181-203 Reserve Road Marshall 3216	1\TP958865
33	205-243 Reserve Road Marshall 3216	1\TP23988
34	321-329 Barwon Heads Road Charlemont 3217	1\TP9653
35	331-343 Barwon Heads Road Charlemont 3217	1\TP958802
36	345-365 Barwon Heads Road Charlemont 3217	1\TP874359
37	Allotment. 2018 Parish of Connewarre	2018\PP2421
38	1-5 Tannery Road Charlemont 3217	1\TP15565
39	7-9 Tannery Road Charlemont 3217	1\TP8333
40	11-19 Tannery Road Charlemont 3217	1\TP958789
41	21-29 Tannery Road Charlemont 3217	2\TP958789
42	8 Tannery Road Charlemont 3217	1\LP44309
43	391-399 Barwon Heads Road Charlemont 3217	1\TP139999
R1	Drews Road Marshall	N/A

PSP Property ID	Property Address	Property SPI no.
R2	Smith Street Marshall	N/A
R3	Horseshoe Bend Road Marshall	N/A
R4	Reserve Road Marshall	N/A
R5	Barwon Heads Road Marshall	N/A
R6	Tannery Road Charlemont	N/A
(Barwon Heads Road)	302-340 Barwon Heads Road Marshall 3216	RES1\PS601744
Railway land	N/A	1\TP137065
Railway land	N/A	1\TP214608
Railway land	N/A	1\TP218506
Railway land	N/A	1\TP563039
Railway land	N/A	1\TP659342
Railway land	N/A	Part of: 1\TP954576, 2\TP954576, 3\TP954576, 4\TP954576
Railway land	N/A	Part of: 1\TP954583
Railway land	N/A	Part of: 1\TP954592
Railway land	199 Barwarre Road Marshall 3216	1\TP954596
Railway land	N/A	Part of: 1\TP954831, 2\TP954831
Railway land	N/A	Part of: 1\TP955324, 2\TP955324, 3\TP955324
Railway land	N/A	16B~2\PP2421
Railway land	N/A	2\TP875120
Railway land	N/A	Part of: 2\TP954576
Railway land	N/A	2031\PP2421
Railway land	N/A	2032\PP2421
Railway land	N/A	2033\PP2421
Railway land	N/A	3\TP600536
Railway land	N/A	3\TP875120
Railway land	N/A	4\TP600536
Railway land	N/A	4\TP875120
Railway land	N/A	5\TP600536

Note: Addresses will change over time as development proceeds. The City of Greater Geelong should be contacted for resolution of doubt.

3 NATIVE VEGETATION TO BE REMOVED

3.1 Assessment Pathway

The assessment pathway for native vegetation within the NVPP that can be removed (including the reason for the assessment pathway) is described in the Native Vegetation Removal (NVR) Report (Appendix 1). A summary of the native vegetation removal is provided in Table 2 below.

Table 2. Assessment pathway and reason for the assessment pathway

Assessment pathway	Detailed
Total Extent ha (past and proposed removals)	2.082
Extent of past removals (ha)	0.000
Total Extent ha (current removals)	2.082
Large Trees (no.)	3
Location Category	2

3.2 Description of native vegetation to be removed

The native vegetation that can be removed, destroyed or lopped without a planning permit, subject to the requirements and conditions set out in this NVPP includes:

- Native vegetation described in Table 3 and 4 and shown in Map 2 to this NVPP.
- Native vegetation that does not qualify as a patch of native vegetation or a scattered tree.

For native vegetation that appears following approval of this NVPP, and all other native vegetation in the NVPP area that is not identified as 'to be retained', advice should be sought from the relevant responsible authority as to whether a permit is required for its removal, destruction or lopping.

Habitat zone and tree IDs in Table 3 and correspond to habitat zone and tree IDs in Map 2.

Table 3. Native vegetation that can be removed without a planning permit.

PSP Property ID	Habitat Zone ID / Tree number	Type	BioEVC Code	BioEVC conservation status	Large tree(s)	Condition score	Extent	Extent without overlap	SBV score	General Habitat Score	Offset type	Map number
2	8	ST	OtP_0175	E	1	0.200	0.070	0.045	0.837	0.00825	General	2f
2	9	ST	OtP_0175	E	1	0.200	0.070	0.044	0.840	0.00815	General	2f
2	GW1-a	Patch	OtP_0175	E	0	0.140	0.083	0.083	0.640	0.00955	General	2c
2	GW2-a	Patch	OtP_0175	E	0	0.140	0.069	0.069	0.640	0.00788	General	2c
2	GW3-a	Patch	OtP_0175	E	0	0.110	0.007	0.007	0.810	0.00066	General	2e
2	GW4-a	Patch	OtP_0175	E	0	0.110	0.004	0.004	0.810	0.00041	General	2e
2	PSWe1-a	Patch	OtP_0647	E	0	0.300	0.191	0.191	0.745	0.04993	General	2c
4	PSWe2-a	Patch	OtP_0647	E	0	0.300	0.142	0.142	0.820	0.03864	General	2e
4	PSWe3-a	Patch	OtP_0647	E	0	0.300	0.185	0.185	0.814	0.05036	General	2e
10	GW10-b	Patch	OtP_0175	E	0	0.290	0.002	0.002	0.670	0.00050	General	2d
10	GW11-b	Patch	OtP_0175	E	0	0.110	0.044	0.044	0.664	0.00398	General	2d
10	GW12-b	Patch	OtP_0175	E	0	0.320	0.001	0.001	0.620	0.00020	General	2d
10	GW12-d	Patch	OtP_0175	E	0	0.320	0.009	0.009	0.430	0.00205	General	2d
10	GW13-a	Patch	OtP_0175	E	0	0.110	0.041	0.041	0.826	0.00411	General	2f
10	GW14-a	Patch	OtP_0175	E	0	0.090	0.007	0.007	0.670	0.00049	General	2d
10	GW15-a	Patch	OtP_0175	E	0	0.090	0.004	0.004	0.691	0.00027	General	2d
10	GW16-a	Patch	OtP_0175	E	0	0.090	0.000	0.000	0.840	0.00004	General	2f
10	GW17-a	Patch	OtP_0175	E	0	0.090	0.000	0.000	0.796	0.00003	General	2f
10	GW18-a	Patch	OtP_0175	E	0	0.090	0.001	0.001	0.800	0.00009	General	2f

PSP Property ID	Habitat Zone ID / Tree number	Type	BioEVC Code	BioEVC conservation status	Large tree(s)	Condition score	Extent	Extent without overlap	SBV score	General Habitat Score	Offset type	Map number
10	GW19-a	Patch	OtP_0175	E	0	0.140	0.076	0.076	0.840	0.00980	General	2f
10	GW19-c	Patch	OtP_0175	E	0	0.140	0.031	0.031	0.451	0.00315	General	2f
11	GW12-e	Patch	OtP_0175	E	0	0.320	0.070	0.070	0.430	0.01601	General	2f
11	GW20-a	Patch	OtP_0175	E	0	0.230	0.270	0.270	0.577	0.04897	General	2g
12	GW21-c	Patch	OtP_0175	E	0	0.330	0.004	0.004	0.840	0.00124	General	2f
12	GW21-d	Patch	OtP_0175	E	0	0.330	0.005	0.005	0.644	0.00132	General	2f
12	GW23-b	Patch	OtP_0175	E	0	0.180	0.029	0.029	0.854	0.00478	General	2f
12	GW23-c	Patch	OtP_0175	E	0	0.180	0.190	0.190	0.910	0.03268	General	2f
12	GW23-e	Patch	OtP_0175	E	0	0.340	0.049	0.049	0.840	0.01545	General	2f
12	GW23-g	Patch	OtP_0175	E	0	0.340	0.001	0.001	0.910	0.00038	General	2f
12	GW23-h	Patch	OtP_0175	E	0	0.180	0.074	0.074	0.840	0.01218	General	2f
12	GW23-j	Patch	OtP_0175	E	0	0.180	0.039	0.039	0.871	0.00651	General	2f
13	GW21-f	Patch	OtP_0175	E	0	0.330	0.003	0.003	0.430	0.00073	General	2f
13	GW21-h	Patch	OtP_0175	E	0	0.330	0.013	0.013	0.430	0.00309	General	2g
13	GW24-a	Patch	OtP_0175	E	0	0.110	0.014	0.014	0.265	0.00097	General	2g
14	GW8-a	Patch	OtP_0175	E	0	0.110	0.012	0.012	0.910	0.00123	General	2f
14	GW9-a	Patch	OtP_0175	E	0	0.110	0.012	0.012	0.910	0.00123	General	2j
15	GW23-n	Patch	OtP_0175	E	0	0.140	0.004	0.004	0.910	0.00056	General	2f
16	58	ST	OtP_0175	E	1	0.200	0.070	0.070	0.460	0.01026	General	2g
16	60	ST	OtP_0175	E	0	0.200	0.031	0.031	0.266	0.00396	General	2l

PSP Property ID	Habitat Zone ID / Tree number	Type	BioEVC Code	BioEVC conservation status	Large tree(s)	Condition score	Extent	Extent without overlap	SBV score	General Habitat Score	Offset type	Map number
16	GW23-o	Patch	OtP_0175	E	0	0.140	0.001	0.001	0.717	0.00008	General	2f
R1	GW5-a	Patch	OtP_0175	E	0	0.110	0.021	0.021	0.110	0.00126	General	2d
R1	GW6-a	Patch	OtP_0175	E	0	0.110	0.015	0.015	0.670	0.00138	General	2d
R2	GW21-g	Patch	OtP_0175	E	0	0.330	0.020	0.020	0.430	0.00464	General	2g
R2	SISsH1-a	Patch	OtP_0196	R	0	0.240	0.152	0.152	0.790	0.03270	General	2e

Note: The data above is sorted based on the PSP Property ID. GW = Grassy Woodland, PSWe = Plains Sedgy Wetland; SISsH = Seasonally Inundated Sub-saline Herbland; ST = Scattered Tree; BioEVC = Bioregional Ecological Vegetation Class; OtP = Otway Plain bioregion; SBV = Strategic Biodiversity Value.

Table 4. Information about trees that can be removed without a planning permit.

PSP Property ID / Address	Tree ID	Habitat Zone	Size and Type	Common Name	Species Name	DBH (cm)	Map Number
2 (62-84 Drews Road, Marshall)	8	N/A	LST	Bellarine Yellow Gum	*Eucalyptus leucoxylon* ssp. *bellarinensis*	102	2f
2 (62-84 Drews Road, Marshall)	9	N/A	LST	Bellarine Yellow Gum	*Eucalyptus leucoxylon* ssp. *bellarinensis*	72	2f
16 (82-90 Horseshoe Bend Road, Marshall)	58	N/A	LST	River Red-gum	*Eucalyptus camaldulensis*	76	2g
16 (82-90 Horseshoe Bend Road, Marshall)	60	N/A	SST	River Red-gum	*Eucalyptus camaldulensis*	45	2l

Note: The data above is sorted based on the PSP Property ID. LST = Large scattered tree, SST = Small scattered tree; DBH = Diameter at Breast Height.

4 NATIVE VEGETATION OFFSETS

4.1 Offset requirements for native vegetation to be removed

The total offset requirements for native vegetation that can be removed are described in the *Native Vegetation Removal Report* (EHP15336_MarshallPSP_VG94_18082022) (Appendix 1) and Table 5.

The offset requirements divided amongst multiple properties and/or parties are described in Table 6.

Table 5. Total offset requirements for the NVPP area

General Offsets Required	0.600 General HUs
Large Trees^	3
Specific Offsets Required	N/A
Vicinity (catchment / LGA)	Corangamite CMA /City of Greater Geelong
Minimum Strategic Biodiversity Value*	0.572

4.2 Offset Statement

4.2.1 Offset Statement

The proponent proposing to remove, destroy or lop the native vegetation identified for removal as part of the NVPP is responsible for ensuring that the required General Habitat Units have been secured, and evidence provided to the City of Greater Geelong prior to the removal of any native vegetation. The provision of offsets must accord with the conditions listed in the NVPP.

The General Habitat Units and Large Tree offsets detailed in Table 6 are available from third-party sites listed on Victoria's Native Vegetation Credit register (NVCR).

Offsets can be purchased from a third party via an offset broker as credits from an existing offset site. If a suitable offset in accordance with the NVPP conditions cannot be identified, an alternative offset may be proposed. Alternative arrangements for offsets are considered for approval on a case by case basis by DELWP and must be to the satisfaction of the Secretary to DELWP.

4.2.2 Collection of payments

No payments are necessary or specified.

Table 6. Offset requirements divided amongst properties/parcels

PSP Property ID	Property Address / Parcel SPI	Type	Habitat Zone ID / Tree ID	Offset Multiplier	General Habitat Units	Vicinity (CMA/LGA region)	Minimum SBV Score	Species Habitat Units	Large tree(s)	Map number
2	62-84 Drews Road Marshall 3216 (3\PS631725)	Scattered Tree	8	1.5	0.001	CCMA/CoGG	0.669	N/A	1	2f
2	62-84 Drews Road Marshall 3216 (3\PS631725)	Scattered Tree	9	1.5	0.000	CCMA/CoGG	0.672	N/A	1	2f
2	62-84 Drews Road Marshall 3216 (3\PS631725)	Patch	GW1-a	1.5	0.002	CCMA/CoGG	0.512	N/A	0	2c
2	62-84 Drews Road Marshall 3216 (3\PS631725)	Patch	GW2-a	1.5	0.001	CCMA/CoGG	0.512	N/A	0	2c
2	62-84 Drews Road Marshall 3216 (3\PS631725)	Patch	GW3-a	1.5	0.005	CCMA/CoGG	0.648	N/A	0	2e
2	62-84 Drews Road Marshall 3216 (3\PS631725)	Patch	GW4-a	1.5	0.007	CCMA/CoGG	0.648	N/A	0	2e
2	62-84 Drews Road Marshall 3216 (3\PS631725)	Patch	PSWe1-a	1.5	0.012	CCMA/CoGG	0.596	N/A	0	2c
4	86-104 Drews Road Marshall 3216 (1\TP612909)	Patch	PSWe2-a	1.5	0.015	CCMA/CoGG	0.656	N/A	0	2e
4	86-104 Drews Road Marshall 3216 (1\TP918723)	Patch	PSWe3-a	1.5	0.024	CCMA/CoGG	0.651	N/A	0	2e
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW10-b	1.5	0.001	CCMA/CoGG	0.536	N/A	0	2d
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW11-b	1.5	0.000	CCMA/CoGG	0.531	N/A	0	2d
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW12-b	1.5	0.001	CCMA/CoGG	0.496	N/A	0	2d
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW12-d	1.5	0.000	CCMA/CoGG	0.344	N/A	0	2d
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW13-a	1.5	0.000	CCMA/CoGG	0.661	N/A	0	2f
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW14-a	1.5	0.058	CCMA/CoGG	0.536	N/A	0	2d
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW15-a	1.5	0.076	CCMA/CoGG	0.553	N/A	0	2d
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW16-a	1.5	0.014	CCMA/CoGG	0.672	N/A	0	2f
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW17-a	1.5	0.012	CCMA/CoGG	0.637	N/A	0	2f
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW18-a	1.5	0.001	CCMA/CoGG	0.640	N/A	0	2f

PSP Property ID	Property Address / Parcel SPI	Type	Habitat Zone ID / Tree ID	Offset Multiplier	General Habitat Units	Vicinity (CMA/LGA region)	Minimum SBV Score	Species Habitat Units	Large tree(s)	Map number
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW19-a	1.5	0.001	CCMA/CoGG	0.672	N/A	0	2f
10	67-87 Drews Road Marshall 3216 (11~2\PP2421)	Patch	GW19-c	1.5	0.075	CCMA/CoGG	0.361	N/A	0	2f
11	32-60 Horseshoe Bend Road Marshall 3216 (12~2\PP2421)	Patch	GW12-e	1.5	0.000	CCMA/CoGG	0.344	N/A	0	2f
11	32-60 Horseshoe Bend Road Marshall 3216 (12~2\PP2421)	Patch	GW20-a	1.5	0.002	CCMA/CoGG	0.462	N/A	0	2g
12	89-109 Drews Road Marshall 3216 (14~2\PP2421)	Patch	GW21-c	1.5	0.002	CCMA/CoGG	0.672	N/A	0	2f
12	89-109 Drews Road Marshall 3216 (14~2\PP2421)	Patch	GW21-d	1.5	0.002	CCMA/CoGG	0.515	N/A	0	2f
12	89-109 Drews Road Marshall 3216 (14~2\PP2421)	Patch	GW23-b	1.5	0.000	CCMA/CoGG	0.683	N/A	0	2f
12	89-109 Drews Road Marshall 3216 (14~2\PP2421)	Patch	GW23-c	1.5	0.015	CCMA/CoGG	0.728	N/A	0	2f
12	89-109 Drews Road Marshall 3216 (14~2\PP2421)	Patch	GW23-e	1.5	0.005	CCMA/CoGG	0.672	N/A	0	2f
12	89-109 Drews Road Marshall 3216 (14~2\PP2421)	Patch	GW23-g	1.5	0.018	CCMA/CoGG	0.728	N/A	0	2f
12	89-109 Drews Road Marshall 3216 (14~2\PP2421)	Patch	GW23-h	1.5	0.010	CCMA/CoGG	0.672	N/A	0	2f
12	89-109 Drews Road Marshall 3216 (14~2\PP2421)	Patch	GW23-j	1.5	0.023	CCMA/CoGG	0.697	N/A	0	2f
13	62-80 Horseshoe Bend Road Marshall 3216 (13~2\PP2421)	Patch	GW21-f	1.5	0.049	CCMA/CoGG	0.344	N/A	0	2f
13	62-80 Horseshoe Bend Road Marshall 3216 (13~2\PP2421)	Patch	GW21-h	1.5	0.006	CCMA/CoGG	0.344	N/A	0	2g
13	62-80 Horseshoe Bend Road Marshall 3216 (13~2\PP2421)	Patch	GW24-a	1.5	0.001	CCMA/CoGG	0.212	N/A	0	2g
14	135-153 Reserve Road Marshall 3216 (1\TP618413)	Patch	GW8-a	1.5	0.006	CCMA/CoGG	0.728	N/A	0	2f
14	135-153 Reserve Road Marshall 3216 (1\TP618413)	Patch	GW9-a	1.5	0.012	CCMA/CoGG	0.728	N/A	0	2j
15	155 Reserve Road Marshall 3216 (1\TP539750)	Patch	GW23-n	1.5	0.049	CCMA/CoGG	0.728	N/A	0	2f

PSP Property ID	Property Address / Parcel SPI	Type	Habitat Zone ID / Tree ID	Offset Multiplier	General Habitat Units	Vicinity (CMA/LGA region)	Minimum SBV Score	Species Habitat Units	Large tree(s)	Map number
16	82-90 Horseshoe Bend Road Marshall 3216 (1\TP6652)	Scattered Tree	58	1.5	0.001	CCMA/CoGG	0.368	N/A	1	2g
16	82-90 Horseshoe Bend Road Marshall 3216 (1\TP6652)	Scattered Tree	60	1.5	0.006	CCMA/CoGG	0.213	N/A	0	2l
16	82-90 Horseshoe Bend Road Marshall 3216 (1\TP6652)	Patch	GW23-o	1.5	0.007	CCMA/CoGG	0.574	N/A	0	2f
R1	Drews Road, Marshall	Patch	GW5-a	1.5	0.002	CCMA/CoGG	0.088	N/A	0	2d
R1	Drews Road, Marshall	Patch	GW6-a	1.5	0.002	CCMA/CoGG	0.536	N/A	0	2d
R2	Smith Street, Marshall	Patch	GW21-g	1.5	0.003	CCMA/CoGG	0.344	N/A	0	2g
R2	Smith Street, Marshall	Patch	SISsH1-a	1.5	0.073	CCMA/CoGG	0.632	N/A	0	2e

Note: The data above is sorted based on the PSP Property ID. CCMA = Corangamite Catchment Management Authority, CoGG = City of Greater Geelong, SBV = Strategic Biodiversity Value Score. The number of large trees that the offset must protect can be protected in either the general, species or combination across all habitat units protected.

5 NATIVE VEGETATION TO BE RETAINED

5.1 Description of native vegetation to be retained

The native vegetation to be retained is described in Table 6 and Table 7 and illustrated in Map 2 to this NVPP.

Habitat zone and tree IDs in Table 6 and Table 7 correspond to habitat zone and tree IDs shown in Map 2.

Native vegetation identified in this NVPP as 'to be retained' has been identified following a strategic approach to retaining native vegetation with greater biodiversity or other value. Any future removal of native vegetation which has been identified as 'to be retained' may undermine the strategic approach adopted for the preparation of this NVPP.

Vegetation that falls within the footprint of the Barwon Heads Road Upgrade Project is nominated to be retained in the Marshall NVPP. As part of the Barwon Heads Road Upgrade Project, Major Road Projects Victoria may remove some or all of this vegetation under the provisions of the Barwon Heads Road (Settlement Road, Belmont to Reserve Road, Marshall) Duplication Project Incorporated Document (October 2020). This vegetation is shown as being retained at this time to ensure that any vegetation not removed by Major Road Projects Victoria is retained as a part of the precinct in the future. Vegetation to which this applies is marked with an asterix (*) in Tables 7 and 8 below.

Table 6. Habitat zones to be retained

Note: The data is sorted based on the PSP Property ID. SBV – Strategic Biodiversity Value score; OtP – Otway Plain bioregion; PSWe – Plains Sedgy Wetland; PGW – Plains Grassy Woodland; GW – Grassy Woodland; SISsH – Seasonally Inundated Sub-saline Herbland; CWL – Current Wetland Layer.

PSP Property ID	Address	Habitat Zone	Type	BioEVC Code	BioEVC conservation status	Large tree(s)	Condition score	Extent (ha)	SBV score	Map number
4	86-104 Drews Road Marshall (1\TP612909)	PSWe2-b	Patch	OtP_0647	E	0	0.3	0.018	0.840	2f
4	86-104 Drews Road Marshall (1\TP918723)	PSWe3-b	Patch	OtP_0647	E	0	0.3	0.005	0.840	2f
6	115 Reserve Road Marshall (CP169831)	PGW1-a	Patch	OtP_0055	E	0	0.23	0.293	0.522	2j
10	67-87 Drews Road Marshall (11~2\PP2421)	GW10-c	Patch	OtP_0175	E	1	0.29	1.156	0.637	2d
10	67-87 Drews Road Marshall (11~2\PP2421)	GW11-a	Patch	OtP_0175	E	0	0.11	0.244	0.615	2d
10	67-87 Drews Road Marshall (11~2\PP2421)	GW12-a	Patch	OtP_0175	E	1	0.32	0.114	0.772	2d
10	67-87 Drews Road Marshall (11~2\PP2421)	GW19-b	Patch	OtP_0175	E	0	0.14	0.343	0.668	2f
11	32-60 Horseshoe Bend Road Marshall (12~2\PP2421)	GW12-c	Patch	OtP_0175	E	0	0.32	0.202	0.430	2d / 2f
11	32-60 Horseshoe Bend Road Marshall (12~2\PP2421)	GW12-f	Patch	OtP_0175	E	0	0.32	0.011	0.580	2f
11	32-60 Horseshoe Bend Road Marshall (12~2\PP2421)	GW20-b	Patch	OtP_0175	E	1	0.23	0.036	0.660	2g
11	32-60 Horseshoe Bend Road Marshall (12~2\PP2421)	GW25-b	Patch	OtP_0175	E	0	0.28	0.016	0.608	2b
12	89-109 Drews Road Marshall (14~2\PP2421)	GW21-b	Patch	OtP_0175	E	4	0.33	0.270	0.858	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	GW22-a	Patch	OtP_0175	E	1	0.31	0.036	0.903	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	GW23-a	Patch	OtP_0175	E	0	0.18	0.217	0.841	2f

PSP Property ID	Address	Habitat Zone	Type	BioEVC Code	BioEVC conservation status	Large tree(s)	Condition score	Extent (ha)	SBV score	Map number
12	89-109 Drews Road Marshall (14~2\PP2421)	GW23-d	Patch	OtP_0175	E	0	0.18	0.008	0.761	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	GW23-f	Patch	OtP_0175	E	2	0.34	0.501	0.849	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	GW23-i	Patch	OtP_0175	E	0	0.18	0.230	0.910	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	GW23-k	Patch	OtP_0175	E	0	0.18	0.013	0.844	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	GW23-l	Patch	OtP_0175	E	0	0.14	0.058	0.910	2f
13	62-80 Horseshoe Bend Road Marshall (13~2\PP2421)	GW21-e	Patch	OtP_0175	E	2	0.33	0.291	0.430	2f/2g
13	62-80 Horseshoe Bend Road Marshall (13~2\PP2421)	GW23-m	Patch	OtP_0175	E	0	0.14	0.025	0.476	2f
34	321-329 Barwon Heads Road Charlemont (1\TP9653)	SISsH2-a	Patch	OtP_0196	R	0	0.26	0.015	0.810	2a
34	321-329 Barwon Heads Road Charlemont (1\TP9653)	SISsH2-b	Patch	OtP_0196	R	0	0.26	0.085	0.631	2a
34	321-329 Barwon Heads Road Charlemont (1\TP9653)	CWL1-a	Patch	OtP_0196	R	0	0.58	0.899	0.577	2a
35	321-329 Barwon Heads Road Charlemont (1\TP9653)	CWL1-b *	Patch	OtP_0196	R	0	0.4	0.019	0.440	2a
42	8 Tannery Road Charlemont (1\LP44309)	PGW2-a *	Patch	OtP_0055	E	0	0.15	0.064	0.458	2b
R1	Drews Road Marshall	GW7-a	Patch	OtP_0175	E	0	0.11	0.008	0.670	2f
R1	Drews Road Marshall	GW10-a	Patch	OtP_0175	E	0	0.29	0.017	0.840	2d
R2	Smith Street Marshall	GW21-a	Patch	OtP_0175	E	2	0.33	0.784	0.630	2f/2g
R2	Smith Street Marshall	SISsH1-b	Patch	OtP_0196	R	0	0.24	0.002	0.840	2f

PSP Property ID	Address	Habitat Zone	Type	BioEVC Code	BioEVC conservation status	Large tree(s)	Condition score	Extent (ha)	SBV score	Map number
R3	Horseshoe Bend Road Marshall	GW25-a *	Patch	OtP_0175	E	1	0.28	0.015	0.660	2b
R4	Reserve Road Marshall	PGW1-b	Patch	OtP_0055	E	0	0.23	0.017	0.830	2j
R5	Barwon Heads Road Marshall	PGW2-b *	Patch	OtP_0055	E	0	0.15	0.052	0.499	2b

Table 7. Information about trees to be retained

PSP Property ID	Address	Tree ID	Type	Scientific name	Common name	Circumference (cm)	Map Number
2	62-84 Drews Road Marshall (3\PS631720)	1	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	63	2c
2	62-84 Drews Road Marshall (3\PS631720)	2	Scattered Large Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	229	2c
2	62-84 Drews Road Marshall (3\PS631720)	3	Scattered Large Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	220	2c
2	62-84 Drews Road Marshall (3\PS631720)	4	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	82	2c
2	62-84 Drews Road Marshall (3\PS631720)	5	Scattered Large Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	226	2e
2	62-84 Drews Road Marshall (3\PS631720)	6	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	63	2e
2	62-84 Drews Road Marshall (3\PS631720)	7	Scattered Large Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	220	2e
4	86-104 Drews Road Marshall (1\TP612909)	11	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	82	2e

PSP Property ID	Address	Tree ID	Type	Scientific name	Common name	Circumference (cm)	Map Number
6	115 Reserve Road Marshall (CP169831)	12	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	195	2j
6	116 Reserve Road Marshall (CP169831)	13	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	88	2j
10	67-87 Drews Road Marshall (11~2\PP2421)	29	Large Tree within a patch	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	232	2d
10	67-87 Drews Road Marshall (11~2\PP2421)	30	Large Tree within a patch	*Eucalyptus camaldulensis*	River Red-gum	220	2d
11	32-60 Horseshoe Bend Road Marshall (12~2\PP2421)	32	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	182	2g
11	32-60 Horseshoe Bend Road Marshall (12~2\PP2421)	33	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	126	2g
11	32-60 Horseshoe Bend Road Marshall (12~2\PP2421)	34	Scattered Large Tree	*Eucalyptus camaldulensis*	River Red-gum	298	2g
11	32-60 Horseshoe Bend Road Marshall (12~2\PP2421)	36	Large Tree within a patch	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	283	2g
12	89-109 Drews Road Marshall (14~2\PP2421)	37	Large Tree within a patch	*Eucalyptus camaldulensis*	River Red-gum	220	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	38	Large Tree within a patch	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	232	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	39	Large Tree within a patch	*Eucalyptus camaldulensis*	River Red-gum	223	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	40	Large Tree within a patch	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	342	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	44	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	195	2f

PSP Property ID	Address	Tree ID	Type	Scientific name	Common name	Circumference (cm)	Map Number
12	89-109 Drews Road Marshall (14~2\PP2421)	45	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	214	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	46	Large Tree within a patch	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	220	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	47	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	144	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	48	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	210	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	49	Large Tree within a patch	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	236	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	50	Large Tree within a patch	*Eucalyptus camaldulensis*	River Red-gum	301	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	51	Scattered Large Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	229	2f
12	89-109 Drews Road Marshall (14~2\PP2421)	53	Scattered Small Tree	*Eucalyptus viminalis*	Manna-gum	135	2f
13	62-80 Horseshoe Bend Road Marshall (13~2\PP2421)	41	Large Tree within a patch	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	232	2f
13	62-80 Horseshoe Bend Road Marshall (13~2\PP2421)	43	Large Tree within a patch	*Eucalyptus camaldulensis*	River Red-gum	330	2g
13	62-80 Horseshoe Bend Road Marshall (13~2\PP2421)	52	Scattered Large Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	104	2f
14	135-153 Reserve Road Marshall (1\TP618413)	54	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	182	2f
15	155 Reserve Road Marshall (1\TP539750)	55	Scattered Large Tree	*Eucalyptus camaldulensis*	River Red-gum	239	2f

PSP Property ID	Address	Tree ID	Type	Scientific name	Common name	Circumference (cm)	Map Number
15	156 Reserve Road Marshall (1\TP539750)	56	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	138	2f
15	157 Reserve Road Marshall (1\TP539750)	57	Scattered Large Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	226	2f
16	82-90 Horseshoe Bend Road Marshall (1\TP6652)	59	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	85	2l
16	82-90 Horseshoe Bend Road Marshall (1\TP6652)	61	Scattered Small Tree	*Eucalyptus melliodora*	Yellow Box	157	2l
27	71-79 Horseshoe Bend Road Marshall (1\TP19665)	74	Scattered Small Tree	*Eucalyptus melliodora*	Yellow Box	157	2g
27	71-79 Horseshoe Bend Road Marshall (1\TP19665)	75	Scattered Small Tree	*Eucalyptus melliodora*	Yellow Box	173	2g
30	470-480 Barwon Heads Road Marshall (1\TP958864)	76*	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	204	2n
32	181-203 Reserve Road Marshall (1\TP958865)	78*	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	144	2m
35	331-343 Barwon Heads Road Charlemont (1\TP958802)	62*	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	163	2a
37	Allot. 2018 Parish of Conewarre (2018\PP2421)	65*	Scattered Large Tree	*Eucalyptus camaldulensis*	River Red-gum	254	2b
37	Allot. 2018 Parish of Conewarre (2018\PP2421)	66*	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	104	2b
38	1-5 Tannery Road Charlemont (1\TP15565)	63*	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	63	2b
42	8 Tannery Road Charlemont (1\LP44309)	70*	Scattered Large Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	261	2b

PSP Property ID	Address	Tree ID	Type	Scientific name	Common name	Circumference (cm)	Map Number
R1	Drews Road Marshall	14	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	69	2c
R1	Drews Road Marshall	15	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	82	2c
R1	Drews Road Marshall	16	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	119	2f
R1	Drews Road Marshall	17	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	217	2f
R1	Drews Road Marshall	18	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	214	2f
R1	Drews Road Marshall	19	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	110	2f
R1	Drews Road Marshall	20	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	163	2f
R1	Drews Road Marshall	21	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	176	2f
R1	Drews Road Marshall	22	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	182	2f
R1	Drews Road Marshall	23	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	204	2f
R1	Drews Road Marshall	24	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	195	2f
R1	Drews Road Marshall	25	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	47	2f
R1	Drews Road Marshall	26	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	88	2f

PSP Property ID	Address	Tree ID	Type	Scientific name	Common name	Circumference (cm)	Map Number
R1	Drews Road Marshall	27	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	79	2f
R1	Drews Road Marshall	28	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	94	2f
R2	Smith Street Marshall	10	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	75	2e
R2	Smith Street Marshall	35	Large Tree within a patch	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	276	2f
R2	Smith Street Marshall	42	Large Tree within a patch	*Eucalyptus camaldulensis*	River Red-gum	264	2f
R3	Horseshoe Bend Road	31	Large Tree within a patch	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	361	2b
R4	Reserve Road	77*	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	119	2m
R4	Reserve Road	79*	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	182	2m
R4	Reserve Road	80*	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	144	2m
R4	Reserve Road	81*	Scattered Large Tree	*Eucalyptus camaldulensis*	River Red-gum	236	2m
R5	Barwon Heads Road	64*	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	182	2b
R5	Barwon Heads Road	67*	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	94	2b
R5	Barwon Heads Road	69*	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	151	2b

PSP Property ID	Address	Tree ID	Type	Scientific name	Common name	Circumference (cm)	Map Number
R5	Barwon Heads Road	71*	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	195	2b
R5	Barwon Heads Road	72*	Scattered Small Tree	*Eucalyptus camaldulensis*	River Red-gum	151	2h
R5	Barwon Heads Road	73*	Scattered Small Tree	*Eucalyptus leucoxylon* ssp. *bellarinensis*	Bellarine Yellow-gum	132	2h
R7	1-5 Tannery Road Charlemont (1\TP15565)	68*	Scattered Large Tree	*Eucalyptus camaldulensis*	River Red-gum	330	2b

Note: The data above is sorted based on the PSP Property ID.

5.2 Management responsibilities and actions

5.2.1 Native vegetation to be retained

The owner of the land must continue to meet any existing legal obligations to manage the land, for example the management of noxious weeds and pest animals under the *Catchment and Land Protection Act 1994*.

6 CONDITIONS FOR THE REMOVAL OF NATIVE VEGETATION

The native vegetation identified in Table 3 and Table 4 and shown in Map 2 to this NVPP can be removed, destroyed or lopped without a planning permit as allowed under Clause 52.16, subject to the following conditions:

a. The removal, destruction or lopping of native vegetation must be in accordance with this NVPP. Only the native vegetation which is identified for removal in this NVPP may be removed, destroyed or lopped. Native vegetation which is identified for removal in this NVPP can only be removed if the purpose of its removal is in accordance with the purpose of this NVPP.

b. Prior to the removal of any native vegetation, a statement of intention to remove native vegetation must be provided to the satisfaction of the Responsible Authority. The statement must include:

    - The purpose of the native vegetation removal.
    - Evidence that an offset has been secured. The offset must meet the offset requirements set out in this NVPP and delivered in accordance with the requirements of *Guidelines for the removal, destruction or lopping of native vegetation*. Offset evidence can be:
        - A security agreement (signed by both parties) to the required standard for the offset site or sites, including a 10 year offset management plan.
        - An allocated credit extract from the Native Vegetation Credit Register.
        - Other evidence that meets the requirements described in section 5 of this NVPP.

c. Interfaces with areas of native vegetation to be retained must be designed in a way that prevents any impacts from civil works and allows for appropriate edge design, to the satisfaction of the Responsible Authority.

d. Prior to the removal of any native vegetation, or prior to the commencement of works, all native vegetation identified in this NVPP as to be retained must be protected by high visibility fencing at whichever minimum distance is greater, as follows:

    - Fencing around scattered trees and trees within patches of native vegetation must meet the minimum standards for a tree protection zone described in AS 4970-2009 *Protection of trees on development sites* or succeeding Australian Standard.
    - Fencing around patches of native vegetation must be erected at a minimum distance of 2 metres from the retained native vegetation.

e. Except with the written consent of the Responsible Authority, within the native vegetation protection areas:

    - No vehicular or pedestrian access, trenching or soil excavation is to occur;
    - No storage or dumping of tools, equipment or waste is to occur; and
    - No entry and exit pits for underground services are to be constructed.

f. Prior to the commencement of any tree removal or other potential fauna habitat, the permit holder must appoint an ecologist to conduct a pre-clearing survey to assess the presence of fauna. Where fauna is likely to be present in trees or vegetation proposed for removal, a suitably qualified wildlife handler must be present to ensure that native fauna is managed in accordance with DELWP guidance and all necessary authorisations must be obtained prior to removing native fauna. Dams filled as part of the approved development must be drained at least 48 hours prior to works commencing to enable the relocation or translocation of fauna.

g. Any large eucalyptus tree with a DBH of greater than 70cm permitted to be removed must be relocated into protected conservation areas within the NVPP or a nearby conservation reserve for inclusion as large logs, in consultation with DELWP and the Responsible Authority. These logs must be cut into a minimum of 1.5 metre lengths and places into the conservation areas under the direction of a suitably qualified ecologist or Council environment officer, with the written consent of the Responsible Authority.

h. Any construction stockpiles, fill and machinery must be placed at least 30 metres away from areas supporting native vegetation and drainage lines, or other distance as agreed in writing by the Responsible Authority".

i. Prior to the removal of vegetation, the Responsible Authority and/or DELWP should be given an opportunity to salvage genetic material from flora species for use in nearby Public Reserves.

j. All earthworks and construction must be undertaken in a manner that will minimise soil erosion and adhere to *Erosion, sediment and dust: Treatment train. Publication 1893* (EPA 2020a) and *Civil construction building and demolition guide. Publication 1834* (EPA 2020b) (or documents as updated or amended from time to time).

k. Water run-off must be designed to ensure that native vegetation to be retained is not compromised.

The following condition must be included on any subdivision permit:

- Prior to [*insert appropriate timeframe: the beginning of any works authorised by this permit /, certification of the plan of subdivision / other timeframe as appropriate*] a statement of intention must be provided to the satisfaction of the Responsible Authority. The statement must include:
    - The purpose of the subdivision.
    - Evidence that an offset has been secured. The offset must meet the offset requirements set out in this NVPP and delivered in accordance with the requirements of *Guidelines for the removal, destruction or lopping of native vegetation* (DELWP 2017a). Offset evidence can be:
        - A security agreement (signed by both parties) to the required standard for the offset site or sites, including a 10 year offset management plan.
        - An allocated credit extract from the Native Vegetation Credit Register.
        - Other evidence that meets the requirements described in Section 4 of this NVPP.

6.1 Other statutory considerations and approvals

The native vegetation permitted to be cleared under the NVPP may be subject to statutory approvals other than the *Planning and Environment Act 1987*.

Proponents should ensure that there are no other statutory approvals required for protected species and communities under the EPBC Act (all land tenures), or the FFG Act (land owned or managed by a public authority, including roadsides and Crown land).

7 MONITORING, REPORTING AND REVIEW

7.1 Monitoring and reporting

As part of the development of the Offset Strategy for the Marshall Precinct, a Native Vegetation Offset Tracking Tool will be required to track native vegetation removal. The Offset Tracking Tool is required to be submitted to the Responsible Authority prior to the removal of any native vegetation.

7.2 NVPP Review

This NVPP is valid for 10 years from the date of endorsement, after which time it must be reviewed to ensure changes in vegetation condition are captured, and required offsets updated where necessary.

REFERENCE DOCUMENTS

DELWP 2017a. Guidelines for the removal, destruction or lopping of native vegetation. Department of Environment, Land, Water and Planning, Melbourne, Victoria.

DELWP 2017b. Assessor's handbook. Applications to remove, destroy or lop native vegetation. Version 1.0. Victorian Department of Environment, Land, Water and Planning, Melbourne, Victoria.

DELWP 2022a. Nature Kit Map [www Document]. URL: https://maps2.biodiversity.vic.gov.au/Html5viewer/index.html?viewer=NatureKit>. Victorian Department of Environment, Land, Water and Planning, Melbourne, Victoria.

DELWP 2022b. Native Vegetation Removal Report (DELWP ref: EHP15336_MarshallPSP_VG94_18082022). Department of Environment, Land, Water and Planning, Melbourne, Victoria.

Ecology and Heritage Partners 2014. Flora and Fauna Survey and Biodiversity Assessment, Marshall Precinct: Armstrong Creek Urban Growth Area.

Ecology and Heritage Partners 2017. Review of native vegetation mapping within the Marshall Precinct, Armstrong Creek Growth Area.

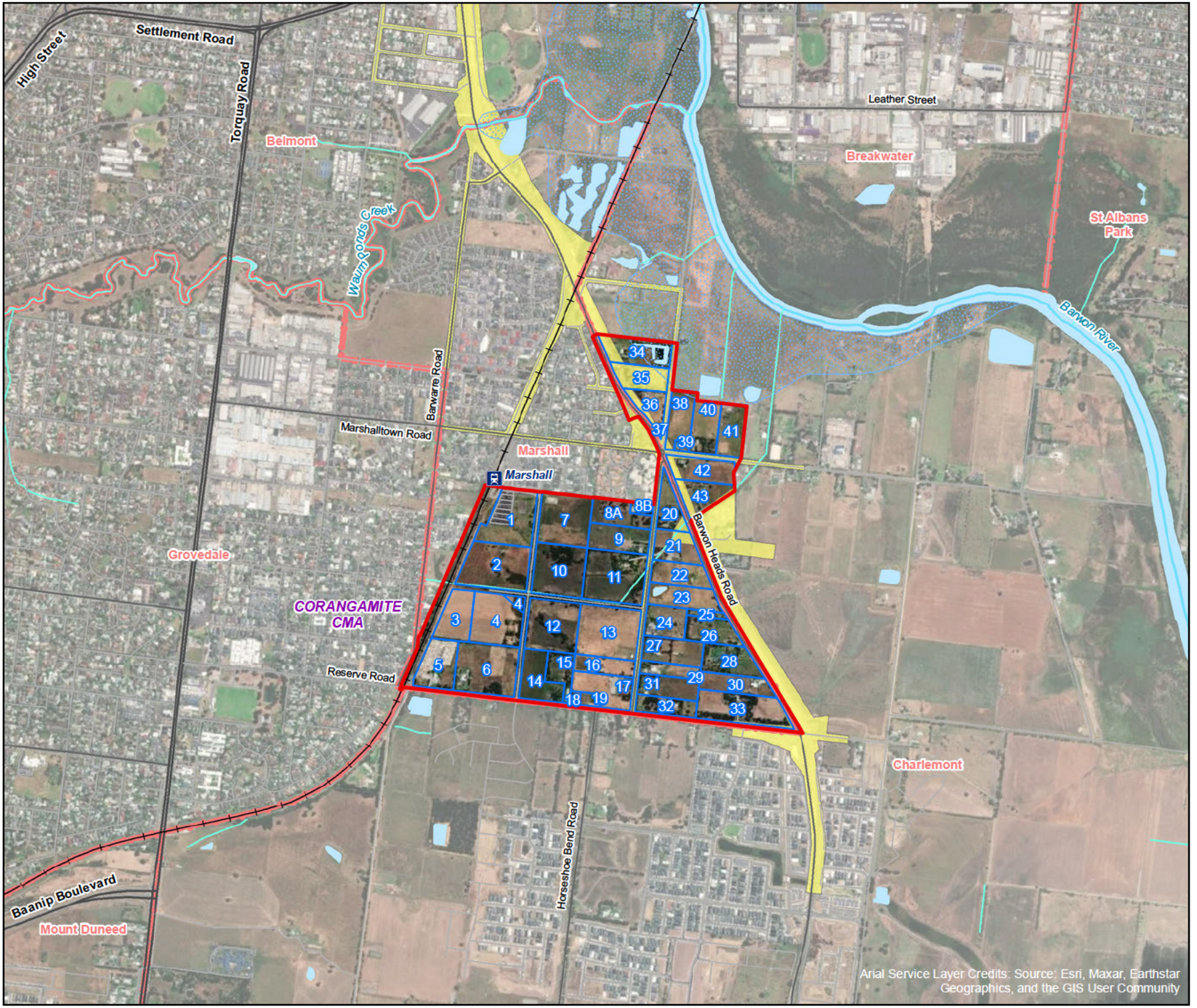
Ecology Partners 2011. Flora and Fauna Survey, and Net Gain Assessment. Marshall Precinct: Armstrong Creek Urban Growth Area.

EPA 2020a. *Erosion, sediment and dust: Treatment train. Publication 1893.* Published document prepared by the Victorian Environment Protection Authority, Melbourne, Victoria.

EPA 2020b. *Civil construction building and demolition guide. Publication 1834.* Published document prepared by the Victorian Environment Protection Authority, Melbourne, Victoria.

MAPS

Map 1: Area to which the NVPP applies



Legend

- NVPP Boundary
- Property boundary (with NVPP ID)
- Barwon Heads Road duplication
- Railway
- Major Road
- Collector Road
- Minor Road
- Minor Watercourse
- Major Watercourse
- Permanent Waterbody
- Land Subject to Inundation
- Localities

Map 1

Area to which the NVPP applies

Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Date: 1/09/2022

N

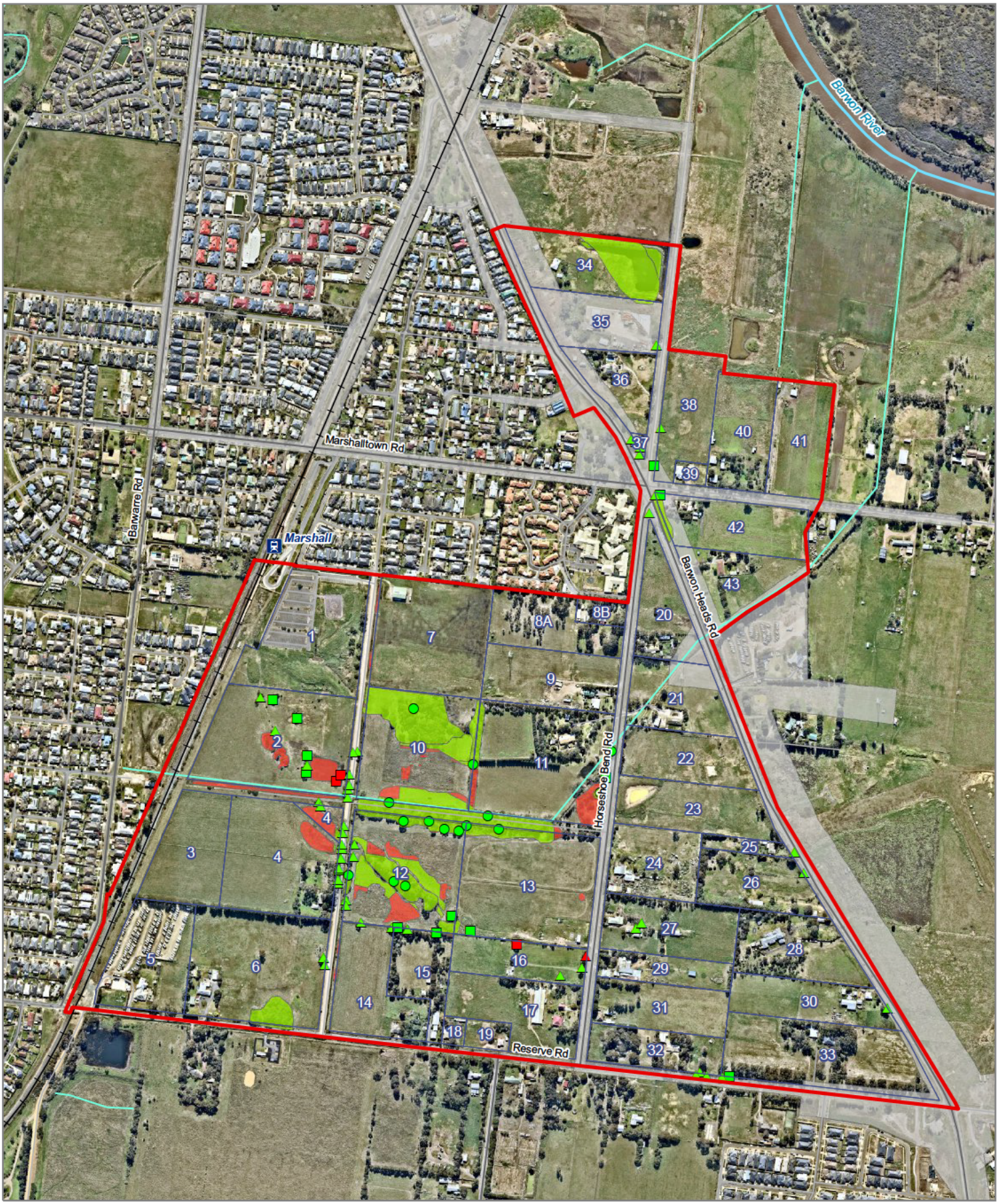
0 250 500

Metres

Map Scale: 1:20,000 @ A4
Coordinate System: GDA 1994 MGA Zone 55

ecology & heritage partners

Map 2: Native Vegetation to be Retained and Removed



Map 2 Overview

Ecological features

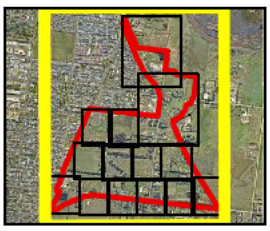
Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Barwon Heads Road duplication
- Large Tree within a patch to be retained
- Scattered Large Tree to be retained
- Scattered Large Tree to be removed
- Scattered Small Tree to be retained
- Scattered Small Tree to be removed

NVPP Status

- Vegetation to be retained
- Vegetation to be removed



N

0 95 190

Metres

ecology & heritage partners

15336_Map02_EcoFeat_MB 20/10/2022 melsley

Aerial source: Nearmap 2021

Map 2a

Ecological features

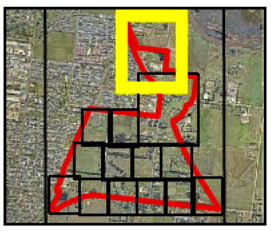
Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Barwon Heads Road duplication
- Scattered Large Tree to be retained
- Scattered Small Tree to be retained

NVPP Status

- Vegetation to be retained



N

0 30 60

Metres

15336_Map02_EcoFeat_MB 20/10/2022 melsley

ecology & heritage partners

Aerial source: Nearmap 2021

Map 2b

Ecological features

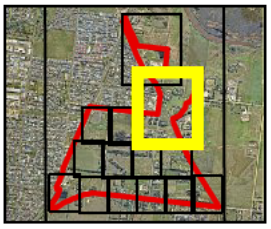
Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Barwon Heads Road duplication
- Large Tree within a patch to be retained
- Scattered Large Tree to be retained
- Scattered Small Tree to be retained

NVPP Status

- Vegetation to be retained



N

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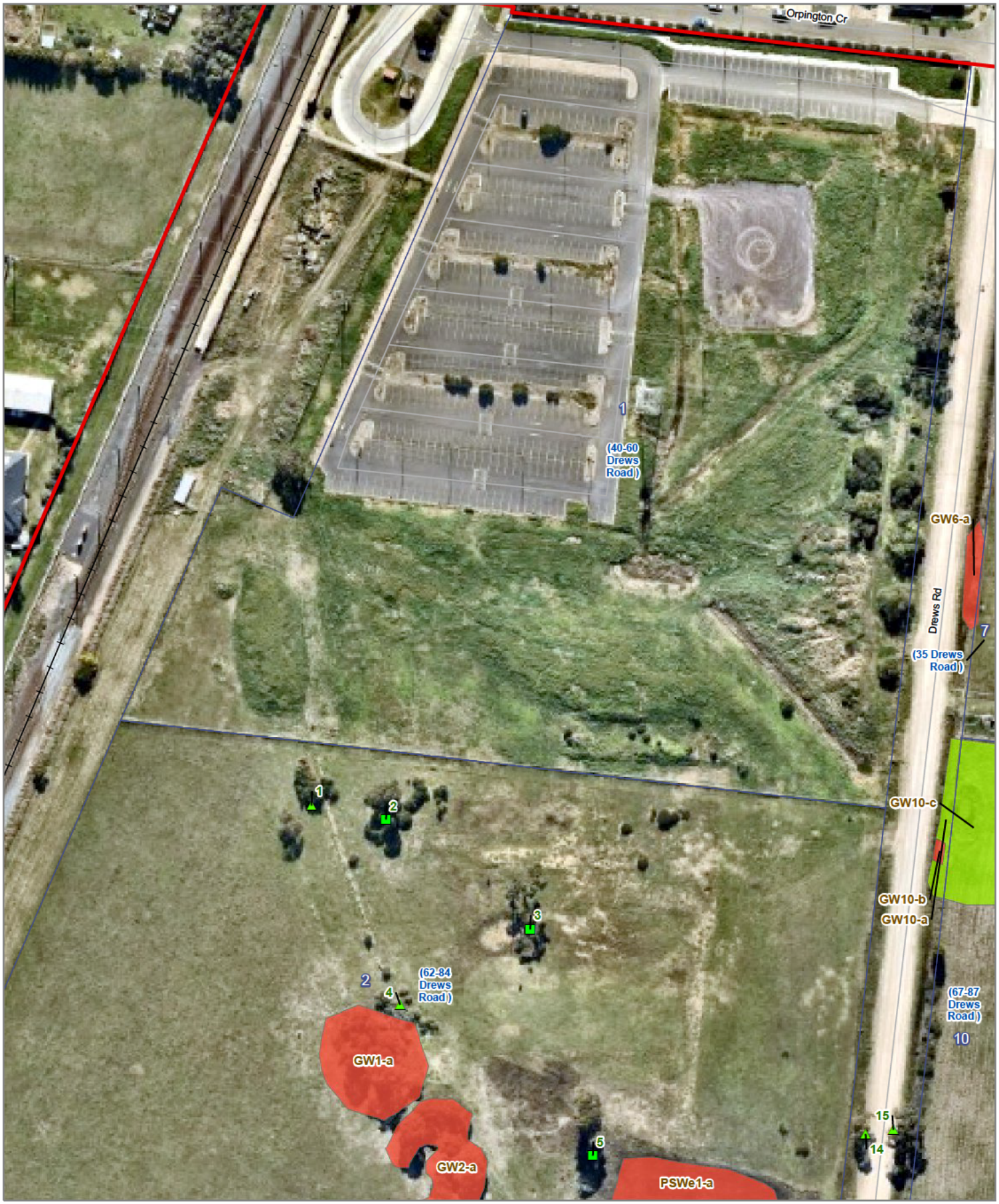
Metres

ecology & heritage partners

15336_Map02_EcoFeat_MB 20/10/2022 melsley

Aerial source: Nearmap 2021



Map 2c

Ecological features

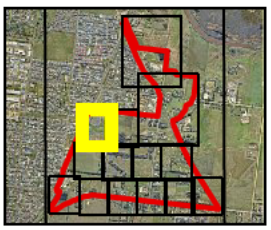
Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Scattered Large Tree to be retained
- Scattered Small Tree to be retained

NVPP Status

- Vegetation to be retained
- Vegetation to be removed



N

0 15 30

Metres

ecology & heritage partners

15336_Map02_EcoFeat_MB 20/10/2022 melsley

Aerial source: Nearmap 2021

Map 2d

Ecological features

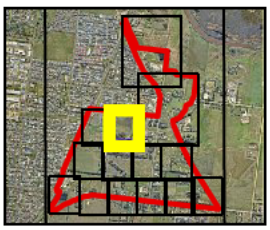
Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Large Tree within a patch to be retained
- Scattered Small Tree to be retained

NVPP Status

- Vegetation to be retained
- Vegetation to be removed



N

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Metres

15336_Map02_EcoFeat_MB 20/10/2022 melsley

ecology & heritage partners

Aerial source: Nearmap 2021

Map 2e

Ecological features

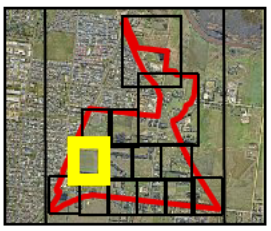
Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Scattered Large Tree to be retained
- Scattered Small Tree to be retained

NVPP Status

- Vegetation to be removed



N

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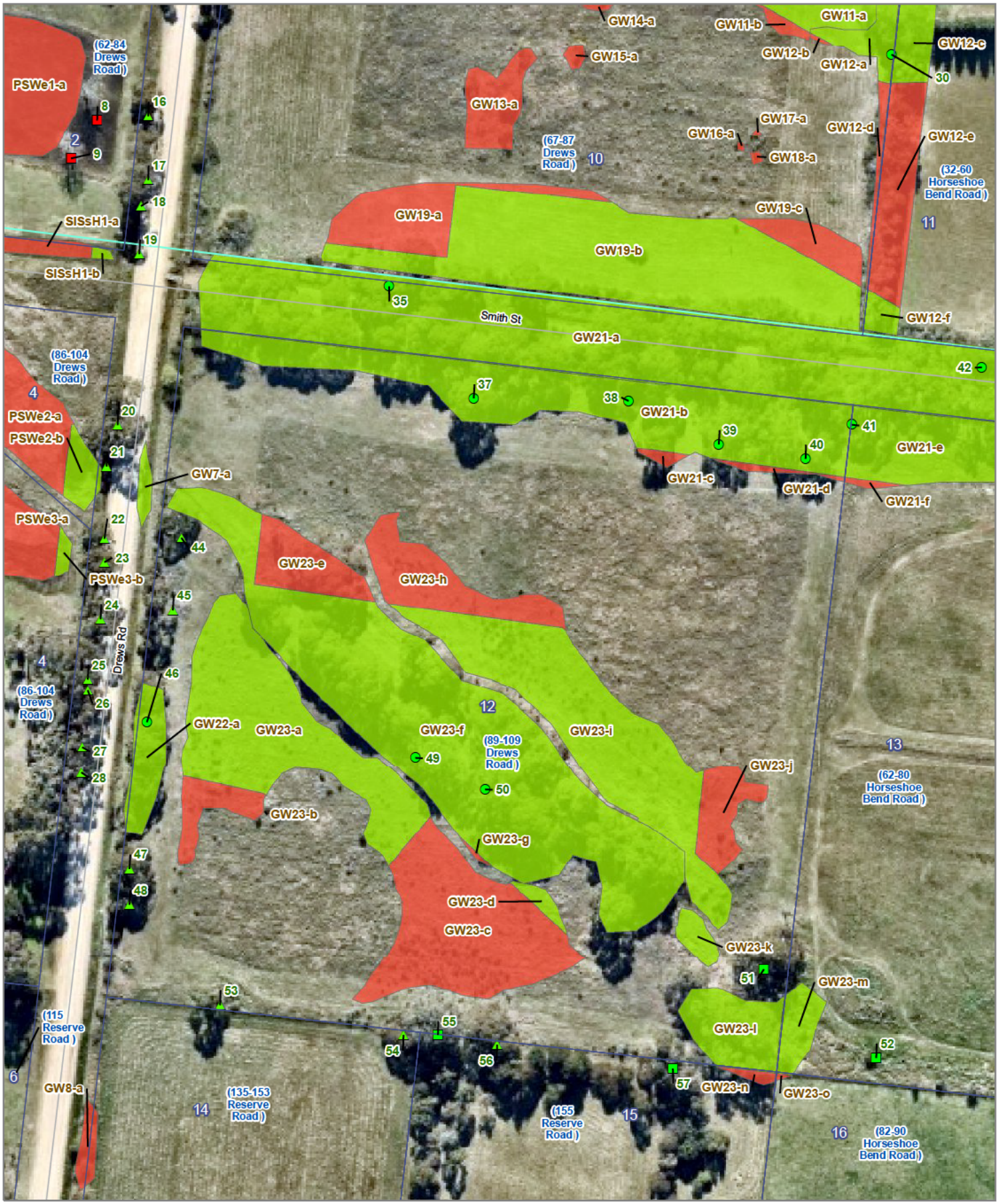
Metres

15336_Map02_EcoFeat_MB 20/10/2022 melsley

ecology & heritage partners

Aerial source: Nearmap 2021



Map 2f

Ecological features

Marshall Precinct Structure Plan Native Vegetation Precinct Plan

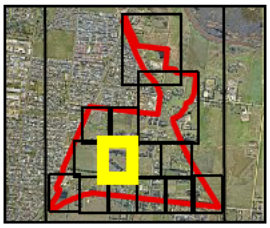
ecology & heritage partners

Legend

- Study Area
- Property boundary
- Large Tree within a patch to be retained
- Scattered Large Tree to be retained
- Scattered Large Tree to be removed
- Scattered Small Tree to be retained

NVPP Status

- Vegetation to be retained
- Vegetation to be removed



N

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Metres

15336_Map02_EcoFeat_MB 20/10/2022 melsley

Aerial source: Nearmap 2021

Map 2g

Ecological features

Marshall Precinct Structure Plan Native Vegetation Precinct Plan

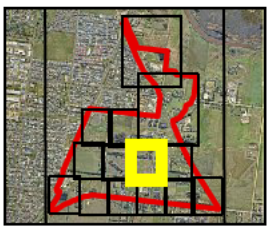
ecology & heritage partners

Legend

- Study Area
- Property boundary
- Barwon Heads Road duplication
- Large Tree within a patch to be retained
- Scattered Large Tree to be retained
- Scattered Large Tree to be removed
- Scattered Small Tree to be retained
- Scattered Small Tree to be removed

NVPP Status

- Vegetation to be retained
- Vegetation to be removed



N

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Metres

15336_Map02_EcoFeat_MB 20/10/2022 melsley

Aerial source: Nearmap 2021

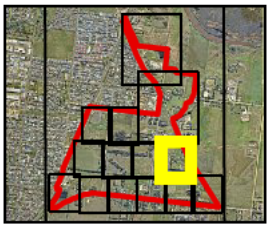
Map 2h

Ecological features

Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Barwon Heads Road duplication
- Scattered Small Tree to be retained



N

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Metres

15336_Map02_EcoFeat_MB 20/10/2022 melsley

ecology & heritage partners

Aerial source: Nearmap 2021

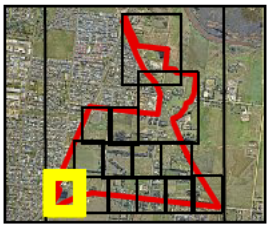
Map 2i

Ecological features

Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary



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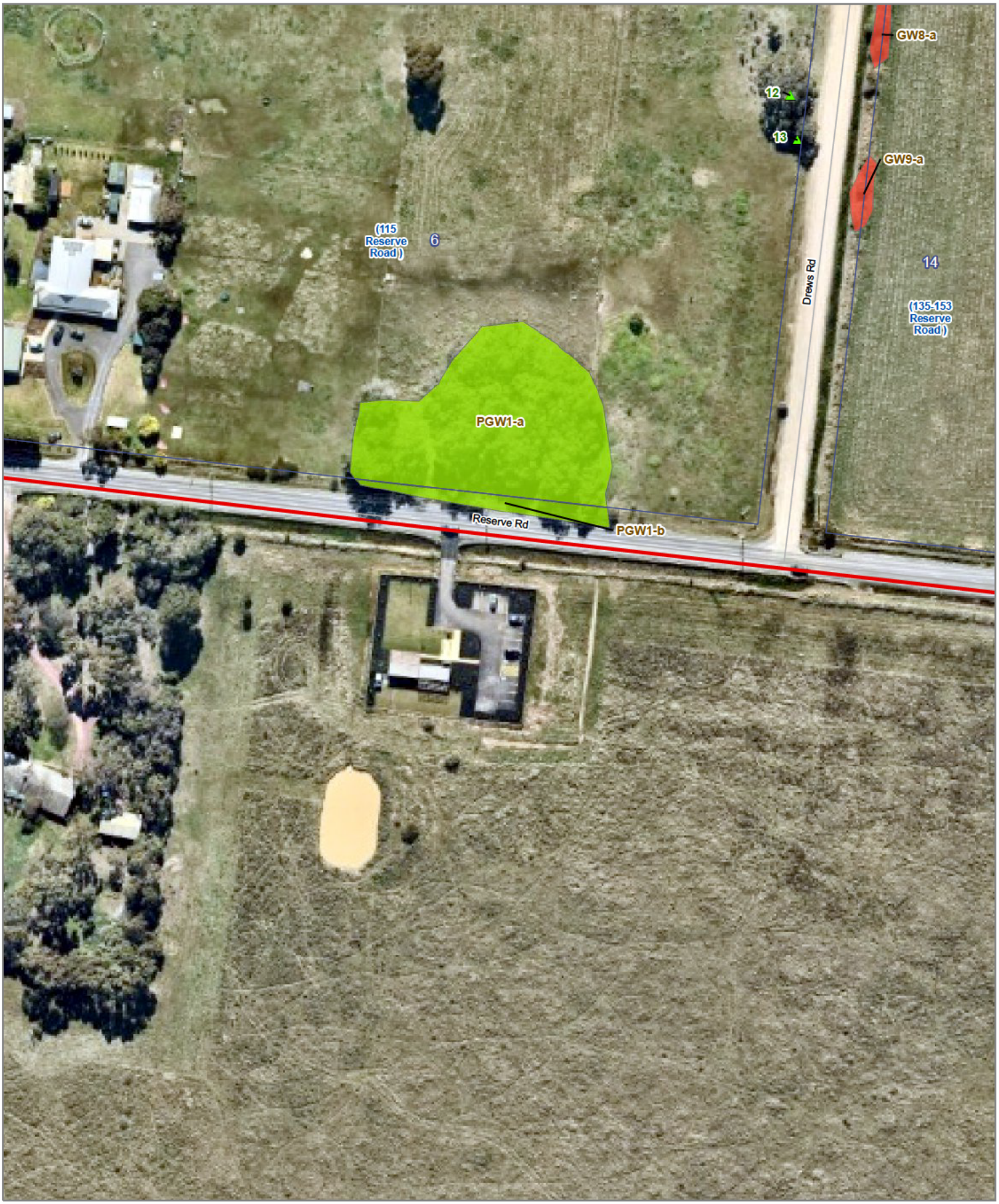
Metres

ecology & heritage partners

15336_Map02_EcoFeat_MB 20/10/2022 melsley

Aerial source: Nearmap 2021



Map 2j

Ecological features

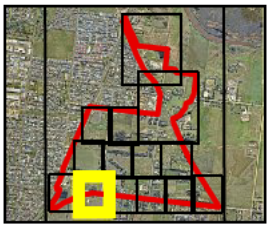
Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Scattered Small Tree to be retained

NVPP Status

- Vegetation to be retained
- Vegetation to be removed



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Metres

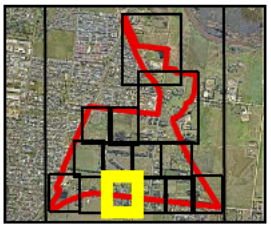
ecology & heritage partners

15336_Map02_EcoFeat_MB 20/10/2022 melsley

Aerial source: Nearmap 2021

Map 2k
Ecological features
Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend
- Study Area
- Property boundary



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Metres

ecology & heritage partners

15336_Map02_EcoFeat_MB 20/10/2022 melsley

Aerial source: Nearmap 2021

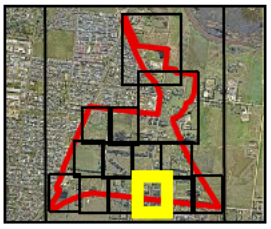
Map 2I

Ecological features

Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Barwon Heads Road duplication
- Scattered Large Tree to be removed
- Scattered Small Tree to be retained
- Scattered Small Tree to be removed



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Metres

15336_Map02_EcoFeat_MB 20/10/2022 melsley

ecology & heritage partners

Aerial source: Nearmap 2021

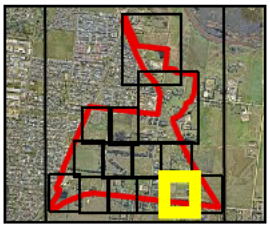
Map 2m

Ecological features

Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Barwon Heads Road duplication
- Scattered Large Tree to be retained
- Scattered Small Tree to be retained



N

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Metres

ecology & heritage partners

15336_Map02_EcoFeat_MB 20/10/2022 melsley

Aerial source: Nearmap 2021

Map 2n

Ecological features

Marshall Precinct Structure Plan Native Vegetation Precinct Plan

Legend

- Study Area
- Property boundary
- Barwon Heads Road duplication
- Scattered Small Tree to be retained

N

0 15 30

Metres

ecology & heritage partners

15336_Map02_EcoFeat_MB 20/10/2022 melsley

Aerial source: Nearmap 2021

Appendix 1 – Native Vegetation Removal (NVR) Report

Native vegetation removal report

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

Date of issue: **19/08/2022**
Time of issue: **6:51 pm**

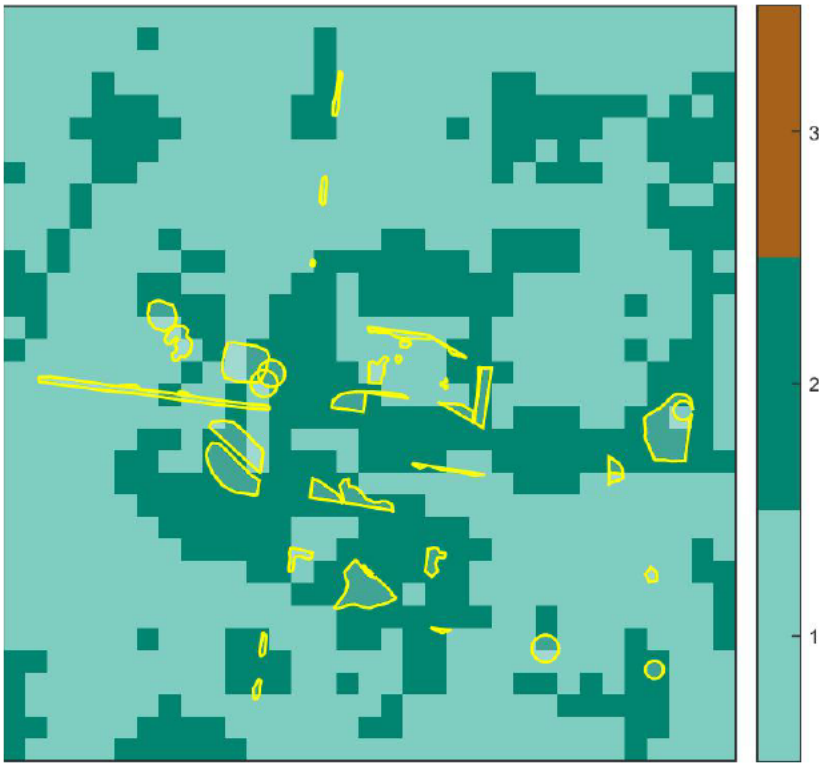
Report ID: EHP_2022_088

Project ID	EHP15336_MarshallPSP_VG94_18082022

Assessment pathway

Assessment pathway	**Detailed Assessment Pathway**
Extent including past and proposed	2.082 ha
Extent of past removal	0.000 ha
Extent of proposed removal	2.082 ha
No. Large trees proposed to be removed	3
Location category of proposed removal	Location 2 The native vegetation is in an area mapped as an endangered Ecological Vegetation Class (as per the statewide EVC map). Removal of less than 0.5 hectares of native vegetation in this location will not have a significant impact on any habitat for a rare or threatened species.

1. Location map



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]	0.600 general habitat units
Vicinity	Corangamite Catchment Management Authority (CMA) or Greater Geelong City Council
Minimum strategic biodiversity value score[2]	0.572
Large trees	3 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

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

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

Next steps

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

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

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

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

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

Additional application requirements must be met including:

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

Authorised by the Victorian Government, 8 Nicholson Street, East Melbourne.

For more information contact the DELWP Customer Service Centre 136 186

www.delwp.vic.gov.au

Appendix 1: Description of native vegetation to be removed

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

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

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

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

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

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

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

Native vegetation to be removed

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-A	Patch	otp_0175	Endangered	0	no	0.110	0.014	0.014	0.265		0.001	General
2-A	Patch	otp_0175	Endangered	0	no	0.140	0.001	0.001	0.717		0.000	General
3-A	Patch	otp_0175	Endangered	0	no	0.140	0.004	0.004	0.910		0.001	General
4-A	Patch	otp_0175	Endangered	0	no	0.110	0.041	0.041	0.826		0.006	General
5-A	Patch	otp_0175	Endangered	0	no	0.290	0.002	0.002	0.670		0.001	General
6-A	Patch	otp_0175	Endangered	0	no	0.090	0.004	0.004	0.691		0.000	General
7-A	Patch	otp_0175	Endangered	0	no	0.090	0.007	0.007	0.670		0.001	General
8-A	Patch	otp_0175	Endangered	0	no	0.090	0.000	0.000	0.840		0.000	General
9-A	Patch	otp_0175	Endangered	0	no	0.090	0.000	0.000	0.796		0.000	General
10-A	Patch	otp_0175	Endangered	0	no	0.090	0.001	0.001	0.800		0.000	General
11-C	Patch	otp_0647	Endangered	0	no	0.300	0.142	0.142	0.820		0.058	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
12-C	Patch	otp_0647	Endangered	0	no	0.300	0.185	0.185	0.814		0.076	General
13-A	Patch	otp_0175	Endangered	0	no	0.140	0.083	0.083	0.640		0.014	General
14-A	Patch	otp_0175	Endangered	0	no	0.140	0.069	0.069	0.640		0.012	General
15-A	Patch	otp_0175	Endangered	0	no	0.110	0.004	0.004	0.810		0.001	General
16-A	Patch	otp_0175	Endangered	0	no	0.110	0.007	0.007	0.810		0.001	General
17-C	Patch	otp_0647	Endangered	0	no	0.300	0.191	0.191	0.745		0.075	General
18-A	Patch	otp_0175	Endangered	0	no	0.110	0.021	0.021	0.110		0.002	General
19-A	Patch	otp_0175	Endangered	0	no	0.110	0.015	0.015	0.670		0.002	General
20-A	Patch	otp_0175	Endangered	0	no	0.110	0.012	0.012	0.910		0.002	General
21-A	Patch	otp_0175	Endangered	0	no	0.110	0.012	0.012	0.910		0.002	General
22-D	Patch	otp_0196	Rare	0	no	0.240	0.152	0.152	0.790		0.049	General
23-A	Patch	otp_0175	Endangered	0	no	0.320	0.009	0.009	0.430		0.003	General
24-A	Patch	otp_0175	Endangered	0	no	0.110	0.043	0.043	0.664		0.006	General
25-A	Patch	otp_0175	Endangered	0	no	0.320	0.001	0.001	0.620		0.000	General
26-A	Patch	otp_0175	Endangered	0	no	0.140	0.076	0.076	0.840		0.015	General
27-A	Patch	otp_0175	Endangered	0	no	0.140	0.031	0.031	0.451		0.005	General
28-A	Patch	otp_0175	Endangered	0	no	0.180	0.074	0.074	0.840		0.018	General
29-A	Patch	otp_0175	Endangered	0	no	0.180	0.039	0.039	0.871		0.010	General
30-A	Patch	otp_0175	Endangered	0	no	0.340	0.049	0.049	0.840		0.023	General
31-A	Patch	otp_0175	Endangered	0	no	0.180	0.190	0.190	0.910		0.049	General
32-A	Patch	otp_0175	Endangered	0	no	0.180	0.029	0.029	0.854		0.007	General
33-A	Patch	otp_0175	Endangered	0	no	0.340	0.001	0.001	0.910		0.001	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
34-A	Patch	otp_0175	Endangered	0	no	0.330	0.003	0.003	0.430		0.001	General
35-A	Patch	otp_0175	Endangered	0	no	0.330	0.013	0.013	0.430		0.005	General
36-A	Patch	otp_0175	Endangered	0	no	0.330	0.020	0.020	0.430		0.007	General
37-A	Patch	otp_0175	Endangered	0	no	0.330	0.004	0.004	0.840		0.002	General
38-A	Patch	otp_0175	Endangered	0	no	0.330	0.005	0.005	0.644		0.002	General
39-TS	Scattered Tree	otp_0175	Endangered	0	no	0.200	0.031	0.031	0.266		0.006	General
40-TL	Scattered Tree	otp_0175	Endangered	1	no	0.200	0.070	0.044	0.840		0.012	General
41-TL	Scattered Tree	otp_0175	Endangered	1	no	0.200	0.070	0.045	0.837		0.012	General
42-TL	Scattered Tree	otp_0175	Endangered	1	no	0.200	0.070	0.070	0.460		0.015	General
43-A	Patch	otp_0175	Endangered	0	no	0.320	0.070	0.070	0.430		0.024	General
44-A	Patch	otp_0175	Endangered	0	no	0.230	0.270	0.270	0.577		0.073	General

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

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

Species common name	Species scientific name	Species number	Conservation status	Group	Habitat impacted	% habitat value affected
Curly Sedge	*Carex tasmanica*	500650	Vulnerable	Dispersed	Habitat importance map	0.0006
Melbourne Yellow-gum	*Eucalyptus leucoxylon subsp. connata*	504484	Vulnerable	Dispersed	Habitat importance map	0.0004
Salt Blown-grass	*Lachnagrostis robusta*	504223	Rare	Dispersed	Habitat importance map	0.0002
Large-headed Fireweed	*Senecio macrocarpus*	503116	Endangered	Dispersed	Habitat importance map	0.0002
Brackish Plains Buttercup	*Ranunculus diminutus*	504314	Rare	Dispersed	Habitat importance map	0.0001
Plump Swamp Wallaby-grass	*Amphibromus pithogastrus*	503624	Endangered	Dispersed	Habitat importance map	0.0001
Grey Billy-buttons	*Craspedia canens*	504643	Endangered	Dispersed	Habitat importance map	0.0001
Small Scurf-pea	*Cullen parvum*	502773	Endangered	Dispersed	Habitat importance map	0.0001
Swamp Everlasting	*Xerochrysum palustre*	503763	Vulnerable	Dispersed	Habitat importance map	0.0001
Snowy Mint-bush	*Prostanthera nivea var. nivea*	502746	Rare	Dispersed	Habitat importance map	0.0001
Wavy Swamp Wallaby-grass	*Amphibromus sinuatus*	503625	Vulnerable	Dispersed	Habitat importance map	0.0001
Tough Scurf-pea	*Cullen tenax*	502776	Endangered	Dispersed	Habitat importance map	0.0001
Matted Flax-lily	*Dianella amoena*	505084	Endangered	Dispersed	Habitat importance map	0.0001
Leafy Twig-sedge	*Cladium procerum*	500786	Rare	Dispersed	Habitat importance map	0.0001
Purple Blown-grass	*Lachnagrostis punicea subsp. punicea*	504206	Rare	Dispersed	Habitat importance map	0.0001
Growling Grass Frog	*Litoria raniformis*	13207	Endangered	Dispersed	Habitat importance map	0.0001
Arching Flax-lily	*Dianella sp. aff. longifolia (Benambra)*	505560	Vulnerable	Dispersed	Habitat importance map	0.0001
Pale Swamp Everlasting	*Coronidium gunnianum*	504655	Vulnerable	Dispersed	Habitat importance map	0.0001

Purple Blown-grass	*Lachnagrostis punicea subsp. filifolia*	504222	Rare	Dispersed	Habitat importance map	0.0001
Lewin's Rail	*Lewinia pectoralis pectoralis*	10045	Vulnerable	Dispersed	Habitat importance map	0.0001
Plains Yam-daisy	*Microseris scapigera s.s.*	504657	Vulnerable	Dispersed	Habitat importance map	0.0001
Pale-flower Crane's-bill	*Geranium sp. 3*	505344	Rare	Dispersed	Habitat importance map	0.0001
Branching Groundsel	*Senecio cunninghamii var. cunninghamii*	503104	Rare	Dispersed	Habitat importance map	0.0001
Bog Gum	*Eucalyptus kitsoniana*	501290	Rare	Dispersed	Habitat importance map	0.0000
Fine-hairy Spear-grass	*Austrostipa puberula*	503988	Rare	Dispersed	Habitat importance map	0.0000
Southern Bent-wing Bat	*Miniopterus schreibersii bassanii*	61343	Critically endangered	Dispersed	Habitat importance map	0.0000
Small Milkwort	*Comesperma polygaloides*	500798	Vulnerable	Dispersed	Habitat importance map	0.0000
Salt Lawrencia	*Lawrencia spicata*	501888	Rare	Dispersed	Habitat importance map	0.0000
Spiny Rice-flower	*Pimelea spinescens subsp. spinescens*	504823	Endangered	Dispersed	Habitat importance map	0.0000
Purple Diuris	*Diuris punctata*	501084	Vulnerable	Dispersed	Habitat importance map	0.0000
Hairy Tails	*Ptilotus erubescens*	502825	Vulnerable	Dispersed	Habitat importance map	0.0000
Glossy Grass Skink	*Pseudemoia rawlinsoni*	12683	Vulnerable	Dispersed	Habitat importance map	0.0000
Bellarine Yellow-gum	*Eucalyptus leucoxylon subsp. bellarinensis*	504891	Endangered	Dispersed	Habitat importance map	0.0000
Australasian Bittern	*Botaurus poiciloptilus*	10197	Endangered	Dispersed	Habitat importance map	0.0000
Wind-blown Tussock-grass	*Poa physoclina*	507791	Endangered	Dispersed	Habitat importance map	0.0000
Blue-billed Duck	*Oxyura australis*	10216	Endangered	Dispersed	Habitat importance map	0.0000
Australian Little Bittern	*Ixobrychus dubius*	10195	Endangered	Dispersed	Habitat importance map	0.0000
Freckled Duck	*Stictonetta naevosa*	10214	Endangered	Dispersed	Habitat importance map	0.0000
Clover Glycine	*Glycine latrobeana*	501456	Vulnerable	Dispersed	Habitat importance map	0.0000
Intermediate Egret	*Ardea intermedia*	10186	Endangered	Dispersed	Habitat importance map	0.0000

Elegant Parrot	*Neophema elegans*	10307	Vulnerable	Dispersed	Habitat importance map	0.0000
Eastern Great Egret	*Ardea modesta*	10187	Vulnerable	Dispersed	Habitat importance map	0.0000
Musk Duck	*Biziura lobata*	10217	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey Goshawk	*Accipiter novaehollandiae novaehollandiae*	10220	Vulnerable	Dispersed	Habitat importance map	0.0000
Baillon's Crake	*Porzana pusilla palustris*	10050	Vulnerable	Dispersed	Habitat importance map	0.0000
Coast Twin-leaf	*Zygophyllum billardierei*	503615	Rare	Dispersed	Habitat importance map	0.0000
Australasian Shoveler	*Anas rhynchotis*	10212	Vulnerable	Dispersed	Habitat importance map	0.0000
Hardhead	*Aythya australis*	10215	Vulnerable	Dispersed	Habitat importance map	0.0000
Striped Legless Lizard	*Delma impar*	12159	Endangered	Dispersed	Habitat importance map	0.0000
Button Immortelle	*Leptorhynchos waitzia*	501949	Vulnerable	Dispersed	Habitat importance map	0.0000
Black Falcon	*Falco subniger*	10238	Vulnerable	Dispersed	Habitat importance map	0.0000
Gull-billed Tern	*Gelochelidon nilotica macrotarsa*	10111	Endangered	Dispersed	Habitat importance map	0.0000
Button Wrinklewort	*Rutidosis leptorhynchoides*	502982	Endangered	Dispersed	Habitat importance map	0.0000
Clumping Golden Moths	*Diuris gregaria*	504887	Endangered	Dispersed	Habitat importance map	0.0000
Brolga	*Grus rubicunda*	10177	Vulnerable	Dispersed	Habitat importance map	0.0000
Creeping Rush	*Juncus revolutus*	501839	Rare	Dispersed	Habitat importance map	0.0000
Swift Parrot	*Lathamus discolor*	10309	Endangered	Dispersed	Top ranking map ; special site	0.0000
Basalt Podolepis	*Podolepis linearifolia*	504658	Endangered	Dispersed	Habitat importance map	0.0000
Forked Rice-flower	*Pimelea hewardiana*	502522	Rare	Dispersed	Habitat importance map	0.0000
Golden Cowslips	*Diuris behrii*	501061	Vulnerable	Dispersed	Habitat importance map	0.0000
Southern Swainson-pea	*Swainsona behriana*	504944	Rare	Dispersed	Habitat importance map	0.0000
Trailing Hop-bush	*Dodonaea procumbens*	501090	Vulnerable	Dispersed	Habitat importance map	0.0000
Fragrant Leek-orchid	*Prasophyllum suaveolens*	504567	Endangered	Dispersed	Habitat importance map	0.0000

Swift Parrot	*Lathamus discolor*	10309	Endangered	Dispersed	Habitat importance map ; special site	0.0000

Habitat group

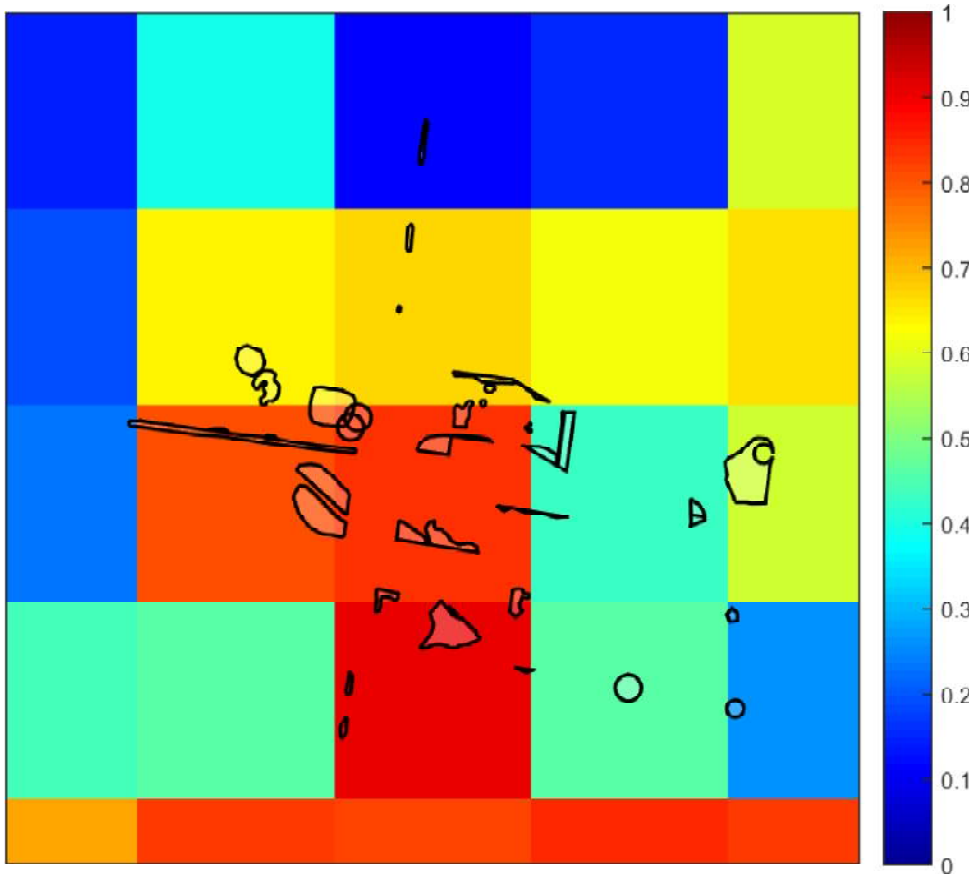
- Highly localised habitat means there is 2000 hectares or less mapped habitat for the species
- Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species

Habitat impacted

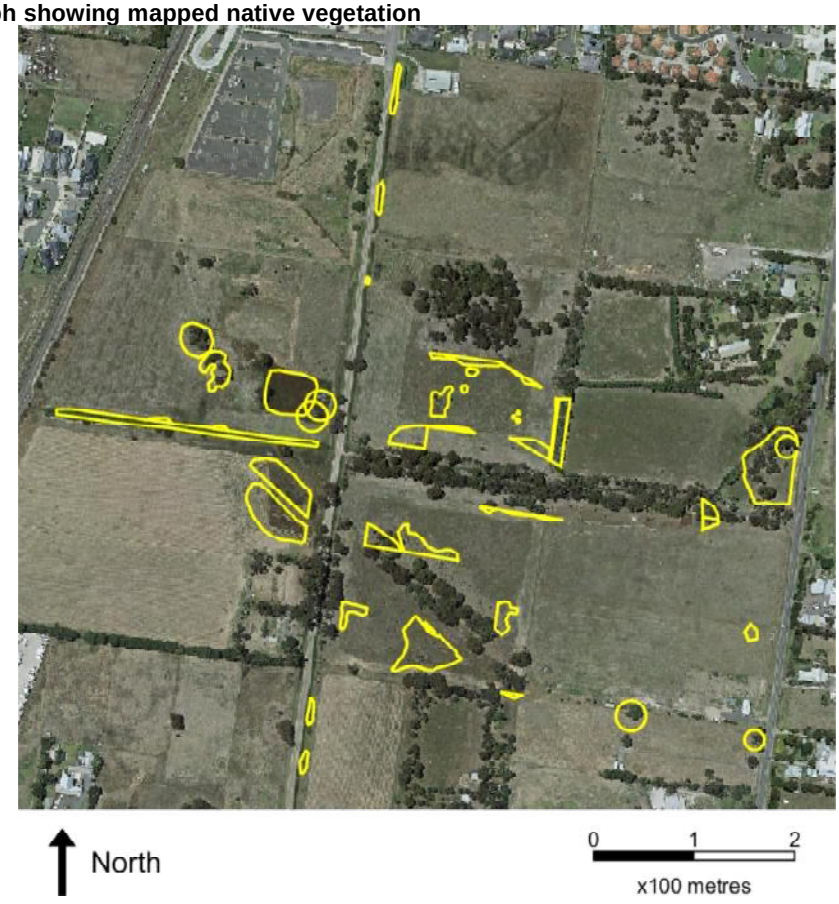
- Habitat importance maps are the maps defined in the Guidelines that include all the mapped habitat for a rare or threatened species
- Top ranking maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat, developed from the highest habitat importance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

Appendix 3 – Images of mapped native vegetation

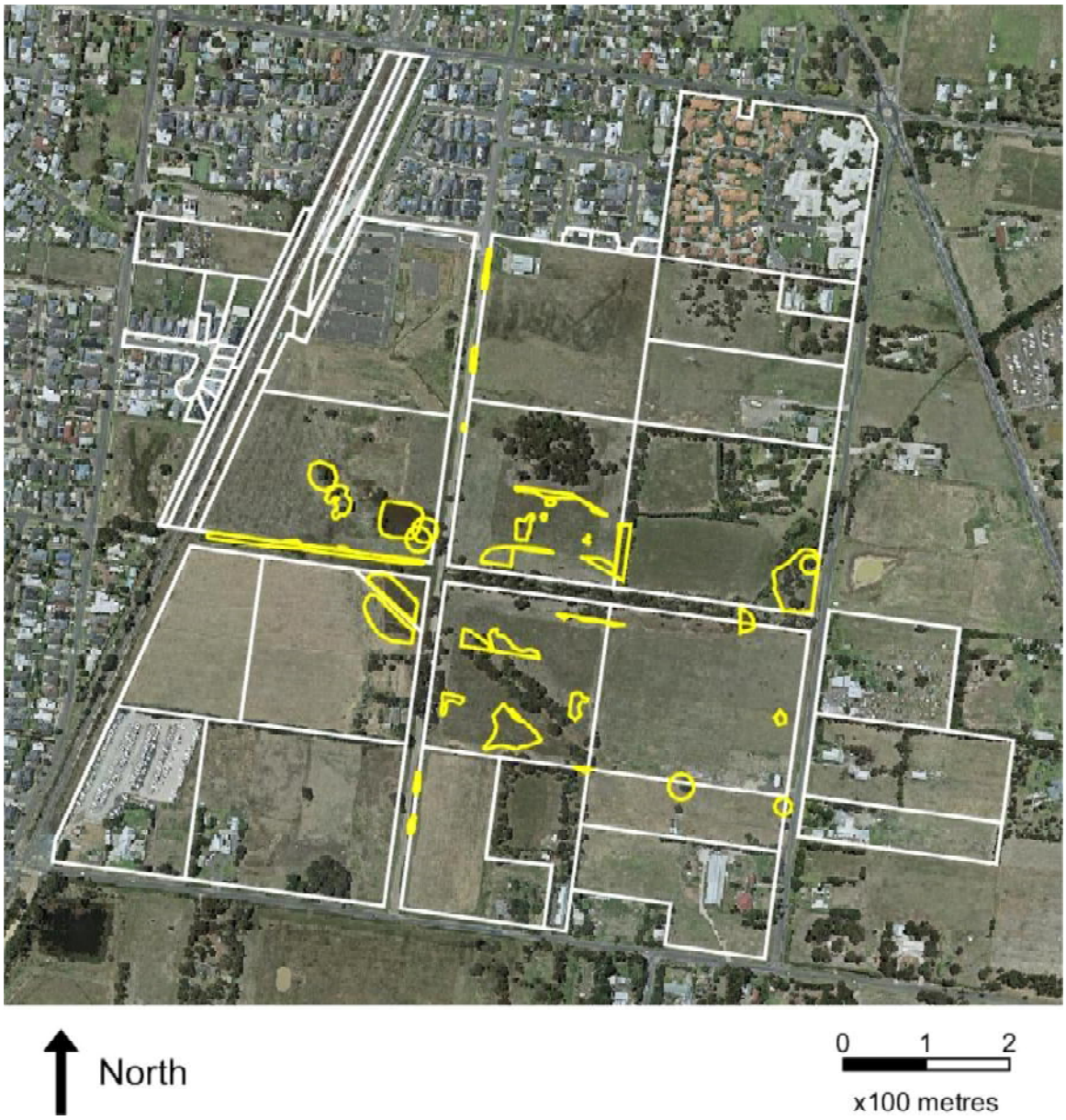
2. Strategic biodiversity values map



3. Aerial photograph showing mapped native vegetation



4. Map of the property in context



Yellow boundaries denote areas of proposed native vegetation removal.