

Table 35: Matters of National Environmental Significance (MNES)

MNES name	EPBC Act status	MNES assessment level	MNES status in study area	Relevant Significant Impact Criteria	Proposed avoidance & mitigation	Likely significant impact on MNES	Report section
Flora							
Fragrant Leek-orchid <i>Prasophyllum suaveolens</i>	EN	Targeted flora surveys	Not recorded during surveys. Targeted surveys in impact area complete – unlikely to occur	<ul style="list-style-type: none"> ▪ Long-term decrease of population size ▪ reduction of area of occupancy ▪ fragmentation of populations ▪ affect habitat critical for survival of species 	Impacts on remnant native vegetation have been avoided and minimised.	No, none recorded.	Section 5.3.3
Spiny Rice-flower <i>Pimelea spinescens</i> subsp. <i>spinescens</i>	CR	Targeted flora surveys	Recorded during targeted surveys in Habitat Zone 1N – does occur	<ul style="list-style-type: none"> ▪ Long-term decrease of population size ▪ reduction of area of occupancy ▪ fragmentation of populations ▪ affect habitat critical for survival of species 	Impacts on remnant native vegetation have been avoided and minimised.	No, all individuals recorded occur in Habitat Zone 1N. All impacts to this habitat zone have been avoided.	Section 5.3.3
Ecological Communities							
Natural Temperate Grassland of the Victorian Volcanic Plain (NTGVVP)	CR	Detailed vegetation assessment and mapping	Present – mostly within road reserves	<ul style="list-style-type: none"> ▪ reduce the extent of an ecological community ▪ fragment or increase fragmentation of an ecological community 	Impacts on remnant native vegetation have been avoided and minimised	Potential – 0.586 – 0.605 ha removed	Section 5.3.4
Grassy Eucalypt Woodland of the Victorian Volcanic Plain (GEWVVP)	CR	Detailed vegetation assessment and mapping	Present – mostly within road reserves	<ul style="list-style-type: none"> ▪ reduce the extent of an ecological community ▪ fragment or increase fragmentation of an ecological community 	Impacts on remnant native vegetation have been avoided	Potential – 0.247 ha removed	Section 5.3.4

MNES name	EPBC Act status	MNES assessment level	MNES status in study area	Relevant Significant Impact Criteria	Proposed avoidance & mitigation	Likely significant impact on MNES	Report section
Fauna							
Common Greenshank <i>Tringa nebularia</i>	M (Bonn A2H, JAMBA, CAMBA)	Habitat assessment and fauna survey, bird utilisation survey	Not recorded during surveys – potential to occur	<ul style="list-style-type: none"> ▪ Substantially modify, destroy or isolate an area of important habitat for a migratory species; ▪ Seriously disrupt the lifecycle of an ecologically significant proportion of the population of a migratory species (0.1% of flyway population) 	Turbines are well separated from moderate-high quality wetlands, in most cases at least 700m from wetland edges.	No, unlikely to occur in nationally or internationally significant numbers and habitat avoided. Unlikely to fly at RSA height for sustained periods of time in the vicinity of turbines and unlikely to collide with turbines.	Section 9
Common Sandpiper <i>Actitis hypoleucus</i>	M (Bonn A2H, JAMBA, CAMBA)	Habitat assessment and fauna survey, bird utilisation survey	Known to occur.	As above (Greenshank)	As above (Greenshank)	No, unlikely to occur in nationally or internationally significant numbers and habitat avoided. Unlikely to fly at RSA height for sustained periods of time in the vicinity of turbines and unlikely to collide with turbines.	Section 9
Curlew Sandpiper <i>Calidris ferruginea</i>	CR and M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)	Habitat assessment and fauna survey, bird utilisation survey	Potential to occur.	As above (Greenshank)	As above (Greenshank)	No, unlikely to occur in nationally or internationally significant numbers and habitat avoided. Unlikely to fly at RSA height for sustained periods of time in the vicinity of turbines and unlikely to collide with turbines.	Section 9
Double-banded Plover <i>Charadrius bicinctus</i>	M (Bonn A2H)	Habitat assessment and fauna survey, bird utilisation survey	Known to occur.	As above (Greenshank)	As above (Greenshank)	No, unlikely to occur in nationally or internationally significant numbers and habitat avoided. Unlikely to fly at RSA height for sustained periods of time in the vicinity of turbines and unlikely to collide with turbines.	Section 9

MNES name	EPBC Act status	MNES assessment level	MNES status in study area	Relevant Significant Impact Criteria	Proposed avoidance & mitigation	Likely significant impact on MNES	Report section
Marsh Sandpiper <i>Tringa stagnatilis</i>	BONNA2H, ROKAMBA, JAMBA, CAMBA	Habitat assessment and fauna survey, bird utilisation survey	Potential to occur	As above (Greenshank)	As above (Greenshank)	No, unlikely to occur in nationally or internationally significant numbers and habitat avoided. Unlikely to fly at RSA height for sustained periods of time in the vicinity of turbines and unlikely to collide with turbines.	Section 9
Red-necked Stint <i>Calidris ruficollis</i>	M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)	Habitat assessment and fauna survey, bird utilisation survey	Known to occur.	As above (Greenshank)	As above (Greenshank)	No, unlikely to occur in nationally or internationally significant numbers and habitat avoided. Unlikely to fly at RSA height for sustained periods of time in the vicinity of turbines and unlikely to collide with turbines.	Section 9
Sharp-tailed Sandpiper <i>Calidris acuminata</i>	VU and M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)	Habitat assessment and fauna survey, bird utilisation survey	Likely to occur.	As above (Greenshank)	As above (Greenshank)	No, unlikely to occur in nationally or internationally significant numbers and habitat avoided. Unlikely to fly at RSA height for sustained periods of time in the vicinity of turbines and unlikely to collide with turbines.	Section 9
Latham's Snipe <i>Gallinago hardwickii</i>	VU and M (JAMBA, ROKAMBA, Bonn)	Habitat assessment and fauna survey, BUS	Recorded in small numbers, below the 18 "important population" threshold.	Impacts on important habitat: <ul style="list-style-type: none"> ▪ areas that support at least 18 individuals of this species ▪ naturally occurring open freshwater wetland with vegetation cover nearby 	Turbines are well separated from wetlands, in most cases at least 700 m from wetland edges and 100 m from all major waterways.	No, unlikely to occur in nationally or internationally significant numbers and habitat avoided. Unlikely to fly at RSA height for sustained periods of time in the vicinity of turbines and unlikely to collide with turbines.	Section 9

MNES name	EPBC Act status	MNES assessment level	MNES status in study area	Relevant Significant Impact Criteria	Proposed avoidance & mitigation	Likely significant impact on MNES	Report section
White-throated Needletail <i>Hirundapus caudacutus</i>	VU and M (CAMBA, JAMBA, ROKAMBA)	BUS	None recorded but likely to occur occasionally in summer	<ul style="list-style-type: none"> ▪ Substantially modify destroy or isolate an area of important habitat for a migratory species; ▪ Seriously disrupt the lifecycle of an ecologically significant proportion of the population of a migratory species (0.1% of flyway population = 10 birds) 	None	No, flies at RSA height, but due to the lack of extensive woodlands in the region, the species is unlikely to occur in large numbers or frequently.	Sections 7.5.3 and 9
Fork-tailed Swift <i>Apus pacificus</i>	M (CAMBA, JAMBA, ROKAMBA)	BUS	None recorded but likely to occur occasionally in summer	<ul style="list-style-type: none"> ▪ Substantially modify destroy or isolate an area of important habitat for a migratory species; ▪ Seriously disrupt the lifecycle of an ecologically significant proportion of the population of a migratory species (0.1% of flyway population = 10 birds) 	None	No, flies at RSA height, but species is expected to occur in late summer in brief occasions. Low number of collisions recorded in operating wind farms in Victoria, stable population trends, and large population numbers.	Sections 7.5.3 and 9
Blue-winged Parrot <i>Neophema chrysostoma</i>	VU	BUS	Recorded	<ul style="list-style-type: none"> ▪ Long-term decrease of population size ▪ reduction of area of occupancy ▪ fragmentation of populations ▪ affect habitat critical for survival of species 	Inspection of hollow-bearing trees and hollow-bearing fence posts to be removed. Avoidance of active nests. Installation of nest boxes if a suitable nesting tree/fence stump is removed. Nest box design will be in consultation with BirdLife Bass Coast BWP Project.	No, infrequent collisions are unlikely to result in a long-term decrease of the population size. The project will not reduce the area of occupancy or fragment any populations. Habitat critical for the survival of the species is not proposed to be removed. Not a significant impact.	Section 7.1

MNES name	EPBC Act status	MNES assessment level	MNES status in study area	Relevant Significant Impact Criteria	Proposed avoidance & mitigation	Likely significant impact on MNES	Report section
Gang-gang Cockatoo <i>Callocephalon fimbriatum</i>	EN	Habitat assessment	Recorded in surrounds of suitable habitat in roadside woodland in Cavendish.	<ul style="list-style-type: none"> ▪ reduction of area of occupancy ▪ affect habitat critical for survival of species 	Minimise tree and woody understorey removal in Cavendish swept path site. Revegetate removed trees and woody understorey after impact ceases. .	Unlikely - The extent of removal is likely to be very restricted (up to 5 roadside trees) and affecting limited habitat.	Section 7.1
Southern Bent-wing Bat <i>Miniopterus orianae bassanii</i>	CR	Habitat assessment and targeted survey	Recorded	<ul style="list-style-type: none"> ▪ Long-term decrease of population size ▪ reduction of area of occupancy ▪ fragmentation of populations ▪ affect habitat critical for survival of species 	Turbines located away from remnant and planted native trees	Unlikely	See Bat Assessment report
Grey-headed Flying-fox <i>Pteropus poliocephalus</i>	EN	Habitat assessment and targeted survey	Recorded	<ul style="list-style-type: none"> ▪ Long-term decrease of population size ▪ reduction of area of occupancy ▪ fragmentation of populations ▪ affect habitat critical for survival of species 	Turbines located away from remnant and planted native trees	Unlikely	See Bat Assessment report
Striped Legless Lizard <i>Delma impar</i>	VU	Habitat assessment	Suitable habitat within road reserves	<ul style="list-style-type: none"> ▪ Long-term decrease of size of an important population ▪ reduction of area of occupancy of an important population ▪ fragmentation of important populations ▪ affect habitat critical for survival of species 	Impacts on remnant native vegetation have been avoided and minimised. Salvage and translocation in roadside upgrade areas.	Potential – the species is likely to occur in roadsides and has potential to occur in the development footprint. Some areas of suitable habitat within road reserves and the development footprint are proposed to be removed, which may lead to a reduction in the area of occupancy of an important population, and affect habitat critical for the survival of the species.	Section 7.1 Section 6

MNES name	EPBC Act status	MNES assessment level	MNES status in study area	Relevant Significant Impact Criteria	Proposed avoidance & mitigation	Likely significant impact on MNES	Report section
Growling Grass Frog <i>Litoria raniformis</i>	VU	Habitat assessment and fauna survey	Recorded on the wind farm	<ul style="list-style-type: none"> ▪ Long-term decrease of size of an important population ▪ reduction of area of occupancy of an important population ▪ fragmentation of important populations ▪ affect habitat critical for survival of species 	<p>Apply turbine buffer of 100m around confirmed habitat. Avoid disturbance within 30 m of potential habitat.</p> <p>Sediment fencing and pollution control.</p>	<p>Unlikely – Impacts to known habitat have been avoided and impacts to potential habitat in other waterways have been minimised. Creek crossings will be built in seasons where either creeks are dry or frog activity is minimal.</p>	Section 11
Golden Sun Moth <i>Synemon plana</i>	VU	Habitat assessment	Suitable habitat within road reserves	<ul style="list-style-type: none"> ▪ Long-term decrease of size of an important population ▪ reduction of area of occupancy of an important population ▪ fragmentation of important populations ▪ affect habitat critical for survival of species 	<p>Impacts on remnant native vegetation have been avoided and minimised.</p>	<p>Unlikely – Given the low number of records in the area and lack of observations during surveys (EHP, 2014), it is considered unlikely that an important population occurs at the site. There will be removal of some areas of roadside grassland habitat but it is not anticipated that the relatively small degree of impacted habitat represents habitat critical to the survival of this species.</p>	Section 7.1

14.4. Offset strategy

In accordance with Table 35: , the following MNES could potentially be significantly impacted by the project and would therefore require offsets under the EPBC Act:

- Natural Temperate Grassland of the Victorian Volcanic Plain (NTGVVP)
- Grassy Eucalypt Woodland of the Victorian Volcanic Plain (GEWVVP)
- Striped Legless Lizard (NTGVVP offsets)

Direct offsets will be secured in accordance with the *Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy* (DSEWPaC 2012). The proponent is currently in discussions with Vegetation Link, an offset broker, to identify potential sites to satisfy the project's offset requirements. Vegetation Link has advised the following:

- NTGVVP: No offset sites currently available. Vegetation Link are confident of bringing one or two sites on by the end of the calendar year to cover off on NTGVVP offset requirement.
- GEWVVP: Vegetation Link is in discussion with a number of landowners but supply is very challenging for this community. They do not anticipate having any supply this year, and will likely need to carry out further searches in Spring 2026.
- SLL: Vegetation Link has availability to meet these offset requirements. A site has been proposed, other portions of which have recently been approved and registered as SLL offsets.

Sites would be secured (if not already secured) with a conservation covenant registered on title under the Victorian Conservation Trust Act 1972 or a S69 Landowner Agreement. An Offset Management Plan (OMP) will be created for each site to the satisfaction of DCCEEW, TFN/DEECA and the landowner, to be implemented by the landowner following purchase of the offsets and registration of the covenants on title. Each OMP would include identification of threats, management actions to be undertaken (including timing, responsibility and standards to be achieved) and a demonstration of how the site will meet the *EPBC Act Environmental Offsets Policy* (DSEWPaC 2012). The offsets will be secured by the Proponent following approval of the Project. This is important as the finalisation of the Project's design at the ultimate consent phase may present opportunities to further reduce impacts potentially resulting in less required offsets.

The next steps for prospective sites will include determining their suitability in accordance with the *EPBC Act Environmental Offsets Policy* (DSEWPC 2012), which will involve site assessment by ecologists and liaising with DCCEEW to ensure the sites align with their requirements. The OMP will include the following report sections:

- The OMP's environmental objectives relevant to protected matters.
- Outline/allow for access to the Offset Site including for scientific research on protected matters.
- A table of where the plan addresses relevant EPBC Act approval conditions.
- A table of commitments made in the OMP to achieve the objectives, and a reference to where the commitments are detailed in the OMP.
- Details of the parties responsible for undertaking management actions.
- Reporting and review mechanisms, and documentation standards to demonstrate compliance with the OMP.
- An assessment of risks to achieving the OMP's environmental objectives and risk management strategies that will be applied.
- Impact avoidance, mitigation and/or repair measures, and their timing.

- A monitoring program, which must include:
 - measurable performance indicators
 - trigger values for corrective actions
 - the timing and frequency of monitoring to detect changes in the performance indicators and trigger values
 - proposed corrective actions, if trigger values are reached.
- Description of long-term funding mechanism for measures outlined in the OMP.

Potential offset site searches

In addition to discussion with Vegetation Link, NA is also carrying out searches for potential offset sites. This includes:

Based on Nature Advisory's native vegetation assessments undertaken within the Hexham Wind Farm project area, it is considered unlikely that the project site itself would support sufficient areas of either NTGVVP or GEWVVP to use as an offset, given:

- The low relief, high-rainfall, relatively rock free landscape has facilitated the conversion of private land to high-value agricultural land (cropping or improved pastures); and
- No NTGVVP or GEWVVP has been mapped on private land within the HWF site.

As such, Nature Advisory has considered potential occurrences on private land beyond the HWF site.

This involved initially screening areas using GIS analysis based on the following criteria:

- Occurs within the Victorian Volcanic Plain bioregion;
- Occurs on private land;
- Not within currently reserved land;
- 2005 Ecological Vegetation Classes Plains Grassland (EVC 132), Plains Grassy Woodland (EVC 55) or Plains Grassland/Plains Grassy Woodland Mosaic (EVC 897); and
- Minimum 1 ha.

A shortlist of sites was prepared by Nature Advisory through focussing on areas with a high concentration of polygons meeting the above criteria, verified through aerial imagery, StreetView (where available), and Nature Advisory's local knowledge.

Botanists then undertook fieldwork to assess potential sites. Of these blocks, a potential NTGVVP offset was identified in areas North of Stockyard Hill. Additionally, potential GEWVVP offset sites were identified near Shelford and Bannockburn. These will require landholder outreach and further assessments to confirm suitability. However, if secured, it is anticipated that these options could provide all required NTGVVP and GEWVVP offsets.

Additional searches for NTGVVP and GEWVVP offsets may also be required if these properties are determined to be unsuitable or cannot be secured.

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Appendix 1: Detailed habitat hectare assessment results

Habitat Zone			1F	1G	1I	1L	1M	1U	1W	1AA	1AD	1AG	1AK	1AM	1AN	1AO	1AP
Bioregion			DunT	DunT	DunT	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP
EVC Number			55	55	55	55_61	55_61	55_61	132_61	132_61	647	55_61	55_61	55_61	55_61	55_61	132_61
Total area of Habitat Zone (ha)			0.111	0.325	0.131	0.007	0.132	0.077	0.235	0.005	0.135	0.236	0.014	0.011	0.006	0.013	0.008
Site Condition	Large Trees	/10	10	10	10	0	0	0	N/A	N/A	N/A	0	0	0	0	0	N/A
	Tree Canopy Cover	/5	5	5	3	0	0	0	N/A	N/A	N/A	0	0	0	0	0	N/A
	Lack of Weeds	/15	7	7	0	0	0	0	0	0	11	0	0	0	0	0	0
	Understorey	/25	15	15	5	5	5	5	5	0	5	5	5	5	5	5	0
	Recruitment	/10	3	3	0	5	0	0	0	0	6	5	0	0	0	0	0
	Organic Matter	/5	3	3	3	5	2	4	4	2	5	4	2	2	2	2	2
	Logs	/5	4	2	0	4	0	0	N/A	N/A	N/A	0	4	4	4	4	N/A
	Site condition standardising multiplier*		1.00	1.00	1.00	1.00	1.00	1.00	1.36	1.36	1.36	1.00	1.00	1.00	1.00	1.00	1.36
	Site Condition subtotal		47	45	21	19	7	9	12	3	37	14	11	11	11	11	3
Landscape Context	Patch Size	/10	4	4	8	1	1	1	1	1	2	1	1	1	1	1	1
	Neighbourhood	/10	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0
	Distance to Core	/5	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0
Total Condition Score		/100	56	54	33	21	8	10	13	4	39	15	12	12	12	12	4

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

Habitat Zone			1AQ	2C	3D	3G	3I	3J	3L	3M	3R	3S	3AA	3AF	3AH
Bioregion			VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP
EVC Number			132_61	55_61	55_61	55_61	55_61	55_61	55_61	55_61	132_61	132_61	55_61	125	125
Total area of Habitat Zone (ha)			0.002	0.017	0.431	0.4	0.313	0.088	0.006	0.018	0.047	0.134	0.023	0.254	14.091
Site Condition	Large Trees	/10	N/A	0	0	0	0	0	0	0	N/A	N/A	0	N/A	N/A
	Tree Canopy Cover	/5	N/A	0	0	0	0	0	0	0	N/A	N/A	0	N/A	N/A
	Lack of Weeds	/15	0	0	4	4	6	2	0	0	4	4	6	5	5
	Understorey	/25	0	5	5	15	5	5	5	5	0	5	5	4	4
	Recruitment	/10	0	1	3	3	5	3	3	3	0	3	3	3	3
	Organic Matter	/5	2	2	2	3	3	2	2	2	3	3	2	4	4
	Logs	/5	N/A	0	2	2	0	0	0	4	N/A	N/A	4	N/A	N/A
	Site condition standardising multiplier*		1.36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.36	1.36	1.00	1.36	1.36
	Site Condition subtotal		3	8	16	27	19	12	10	14	10	20	20	22	22
Landscape Context	Patch Size	/10	1	1	1	1	1	1	1	1	1	1	1	1	6
	Neighbourhood	/10	0	1	0	0	0	0	0	0	0	0	0	0	2
	Distance to Core	/5	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Condition Score		/100	4	10	17	28	20	13	11	15	11	21	21	23	30

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

Habitat Zone			3AI	3AJ	3AK	3BN	3BO	3BP	3BT	3BU	3BV	3BW	3BY
Bioregion			VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP
EVC Number			125	125	125	55_61	132_61	132_61	132_61	132_61	55_61	55_61	55_61
Total area of Habitat Zone (ha)			0.065	0.068	0.771	0.037	5.76	0.26	0.226	0.177	0.092	0.064	0.053
Site Condition	Large Trees	/10	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	0	0	0
	Tree Canopy Cover	/5	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	0	0	0
	Lack of Weeds	/15	5	5	5	4	13	13	4	4	4	4	0
	Understorey	/25	4	4	4	5	10	10	5	5	5	5	15
	Recruitment	/10	3	3	3	0	10	10	0	0	0	0	0
	Organic Matter	/5	4	4	4	5	3	3	2	2	2	2	3
	Logs	/5	N/A	N/A	N/A	0	N/A	N/A	N/A	N/A	4	4	0
	Site condition standardising multiplier*		1.36	1.36	1.36	1.00	1.36	1.36	1.36	1.36	1.00	1.00	1.00
	Site Condition subtotal		22	22	22	14	49	49	15	15	15	15	18
Landscape Context	Patch Size	/10	1	1	1	1	4	4	1	1	1	1	1
	Neighbourhood	/10	0	0	0	0	0	0	0	0	0	0	0
	Distance to Core	/5	0	0	0	0	0	0	0	0	0	0	0
Total Condition Score		/100	23	23	23	15	53	53	16	16	16	16	19

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

Habitat Zone			3BZ	3CA	3CB	3DC	3DD	3DE	3DF	4A	5D	5E	5F
Bioregion			VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP
EVC Number			132_61	55_61	55_61	0	0	55_61	55_61	132_61	132_61	55_61	132_61
Total area of Habitat Zone (ha)			1.835	0.049	0.024	0.066	0.047	0.267	0.006	0.501	0.177	0.008	1.212
Site Condition	Large Trees	/10	N/A	0	0	0	0	0	0	N/A	N/A	0	N/A
	Tree Canopy Cover	/5	N/A	0	0	0	0	0	0	N/A	N/A	0	N/A
	Lack of Weeds	/15	13	0	0	4	4	6	4	4	7	7	7
	Understorey	/25	10	5	5	5	5	5	5	5	5	5	10
	Recruitment	/10	10	0	0	3	0	0	0	0	3	0	3
	Organic Matter	/5	3	2	2	4	3	3	2	2	3	2	3
	Logs	/5	N/A	5	5	2	2	0	4	N/A	N/A	0	0
	Site condition standardising multiplier*		1.36	1.00	1.00	1.00	1.00	1.00	1.00	1.36	1.36	1.00	1.36
	Site Condition subtotal		49	12	12	18	14	14	15	15	25	14	31
Landscape Context	Patch Size	/10	4	1	1	1	1	1	1	1	1	1	1
	Neighbourhood	/10	0	0	0	0	0	0	0	0	0	0	0
	Distance to Core	/5	0	0	0	0	0	0	3	0	0	0	0
Total Condition Score		/100	53	13	13	19	15	15	19	16	26	15	32

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

Habitat Zone			5G	5H	5I	5J	5K	5L	50	5P	5U	BW	BX
Bioregion			VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP	VVP
EVC Number			55_61	55_61	55_61	55_61	132_61	132_61	55_61	55_61	132_61	55_61	55_61
Total area of Habitat Zone (ha)			0.619	0.401	0.873	1.104	0.73	3.444	0.057	0.008	0.135	0.077	0.09
Site Condition	Large Trees	/10	0	0	0	0	0	0	0	0	N/A	0	0
	Tree Canopy Cover	/5	0	0	0	0	N/A	N/A	0	0	N/A	0	0
	Lack of Weeds	/15	2	4	7	4	4	13	0	0	0	7	7
	Understorey	/25	5	10	5	10	10	10	5	5	0	5	5
	Recruitment	/10	0	0	0	3	3	10	0	0	0	0	0
	Organic Matter	/5	4	3	3	3	3	3	2	2	2	4	4
	Logs	/5	0	0	0	0	N/A	0	0	5	N/A	0	0
	Site condition standardising multiplier*		1.00	1.00	1.00	1.00	1.36	1.36	1.00	1.00	1.36	1.00	1.00
	Site Condition subtotal		11	17	15	20	27	49	7	12	3	16	16
Landscape Context	Patch Size	/10	1	1	1	1	1	1	1	1	1	2	2
	Neighbourhood	/10	0	0	0	0	0	0	0	0	0	0	0
	Distance to Core	/5	0	0	0	0	0	0	0	0	0	0	0
Total Condition Score		/100	12	18	16	21	28	50	8	13	4	18	18

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

Habitat Zone			BY	CN	CO	DA3	DF	DH	DV	DW	DX	DZ	EA
Bioregion			VVP										
EVC Number			68	55_61	647	55_61	55_61	55_61	55_61	55_61	55_61	68	55_61
Total area of Habitat Zone (ha)			0.588	0.584	0.088	1.455	0.235	0.1	1.9	0.25	0.345	0.028	0.505
Site Condition	Large Trees	/10	0	9	N/A	0	0	0	0	0	0	0	0
	Tree Canopy Cover	/5	0	3	N/A	0	0	4	0	0	0	0	0
	Lack of Weeds	/15	7	0	11	7	0	15	7	4	4	0	7
	Understorey	/25	10	5	5	15	5	5	15	15	15	5	15
	Recruitment	/10	0	0	6	2	5	4	2	5	5	5	5
	Organic Matter	/5	2	2	5	3	2	0	3	4	4	3	3
	Logs	/5	0	4	N/A	0	0	0	0	0	0	0	0
	Site condition standardising multiplier*		1.00	1.00	1.36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Site Condition subtotal		19	23	37	27	12	28	27	28	28	13	30
Landscape Context	Patch Size	/10	2	1	2	1	1	1	1	1	1	1	1
	Neighbourhood	/10	0	0	0	0	0	0	0	0	0	0	0
	Distance to Core	/5	0	0	0	0	0	0	0	0	0	0	0
Total Condition Score		/100	21	24	39	28	13	29	28	29	29	14	31

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

Habitat Zone			EY	EZ	FI	HA	HB	HD	XAH	XAJ	XAT	XAX	XAY
Bioregion			VVP	VVP	VVP	VVP	VVP						
EVC Number			55_61	55_61	125	55_61	55_61	55_61	125	125	653	653	653
Total area of Habitat Zone (ha)			0.007	0.037	0.016	0.079	0.037	0.004	19.107	0.008	0.076	0.035	0.039
Site Condition	Large Trees	/10	0	0	N/A	0	0	0	N/A	N/A	N/A	N/A	N/A
	Tree Canopy Cover	/5	0	0	N/A	0	0	0	N/A	N/A	N/A	N/A	N/A
	Lack of Weeds	/15	0	0	0	0	0	0	6	4	11	15	15
	Understorey	/25	5	5	10	5	5	5	10	10	15	15	15
	Recruitment	/10	5	5	3	5	5	5	3	6	0	0	0
	Organic Matter	/5	2	2	4	2	2	2	5	4	5	5	5
	Logs	/5	0	0	N/A	0	0	0	N/A	N/A	N/A	N/A	N/A
	Site condition standardising multiplier*		1.00	1.00	1.36	1.00	1.00	1.00	1.36	1.36	1.36	1.36	1.36
	Site Condition subtotal		12	12	23	12	12	12	33	33	42	48	48
Landscape Context	Patch Size	/10	1	1	1	1	1	1	4	1	2	2	2
	Neighbourhood	/10	0	0	0	0	0	0	0	1	0	0	0
	Distance to Core	/5	0	0	0	0	0	0	1	0	0	0	0
Total Condition Score		/100	13	13	24	13	13	13	38	35	44	50	50

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

Habitat Zone		XBA	XBE	XBF	XBG	XBH	XDE	XDK	XDL
Bioregion		VVP	VVP						
EVC Number		125	125	647	125	647	653	125	647
Total area of Habitat Zone (ha)		0.078	0.123	0.132	0.202	0.011	0.068	0.155	0.49
Site Condition	Large Trees	/10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Tree Canopy Cover	/5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Lack of Weeds	/15	7	7	4	0	4	9	4
	Understorey	/25	15	15	5	5	5	9	10
	Recruitment	/10	0	0	0	0	3	5	3
	Organic Matter	/5	5	5	5	5	0	5	5
	Logs	/5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Site condition standardising multiplier*		1.36	1.36	1.36	1.36	1.36	1.36	1.36
	Site Condition subtotal		37	37	19	14	16	38	30
Landscape Context	Patch Size	/10	1	1	1	1	2	2	1
	Neighbourhood	/10	0	0	0	0	0	1	0
	Distance to Core	/5	0	0	0	0	0	0	0
Total Condition Score		/100	38	38	20	15	18	40	32
* Modified approach to habitat scoring - refer to Table 14 of DELWP's Vegetation Quality Assessment Manual (DSE 2004).									

Appendix 2: Large Trees in Patches and Scattered trees recorded in the project study area

Tree No.	Common Name	Scientific Name	DBH (cm)	Circumference	Habitat Category	Radius of TPZ (m)	Remove/Retain	Notes
1	River Red-gum	<i>Eucalyptus camaldulensis</i>	13	41	Small Scattered Tree	2	Retained	
2	Eucalypt	<i>Eucalyptus sp.</i>	80	251	Large Tree in Habitat Zone 1F	9.6	Retained	
3	Eucalypt	<i>Eucalyptus sp.</i>	100	314	Large Tree in Habitat Zone 1F	12	Removed	
4	Eucalypt	<i>Eucalyptus sp.</i>	80	251	Large Tree in Habitat Zone 1G	9.6	Retained	DBH estimated. Surrounded by Hedge Wattle.
5	Eucalypt	<i>Eucalyptus sp.</i>	98	308	Large Tree in Habitat Zone 1G	11.76	Retained	
6	River Red-gum	<i>Eucalyptus camaldulensis</i>	88	276	Large Tree in Habitat Zone 1G	10.56	Removed	
7	River Red-gum	<i>Eucalyptus camaldulensis</i>	118	371	Large Tree in Habitat Zone 1G	14.16	Retained	
8	River Red-gum	<i>Eucalyptus camaldulensis</i>	96	302	Large Tree in Habitat Zone 1G	11.52	Removed	
9	River Red-gum	<i>Eucalyptus camaldulensis</i>	103	324	Large Tree in Habitat Zone 1G	12.36	Removed	
10	River Red-gum	<i>Eucalyptus camaldulensis</i>	95	298	Large Tree in Habitat Zone 1G	11.4	Retained	
11	River Red-gum	<i>Eucalyptus camaldulensis</i>	90	283	Large Tree in Habitat Zone 1H	10.8	Retained	DBH estimated. Private property.
12	River Red-gum	<i>Eucalyptus camaldulensis</i>	80	251	Large Tree in Habitat Zone 1H	9.6	Retained	DBH estimated. Private property.
13	River Red-gum	<i>Eucalyptus camaldulensis</i>	85	267	Large Tree in Habitat Zone 1I	2	Removed	DBH estimated. Private property.
14	River Red-gum	<i>Eucalyptus camaldulensis</i>	137	430	Large Tree in Habitat Zone 1I	2	Retained	
15	River Red-gum	<i>Eucalyptus camaldulensis</i>	126	396	Large Scattered Tree	2	Retained	
16	River Red-gum	<i>Eucalyptus camaldulensis</i>	255	801	Large Tree in Habitat Zone 1J	2	Retained	

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

Tree No.	Common Name	Scientific Name	DBH (cm)	Circumference	Habitat Category	Radius of TPZ (m)	Remove/Retain	Notes
17	River Red-gum	<i>Eucalyptus camaldulensis</i>	207	650	Large Tree in Habitat Zone 1J	2	Retained	
18	River Red-gum	<i>Eucalyptus camaldulensis</i>	82	258	Large Scattered Tree	2	Retained	
19	River Red-gum	<i>Eucalyptus camaldulensis</i>	37	116	Small Scattered Tree	2	Retained	
20	River Red-gum	<i>Eucalyptus camaldulensis</i>	7	22	Small Scattered Tree	2	Retained	
21	River Red-gum	<i>Eucalyptus camaldulensis</i>	34	107	Small Scattered Tree	2	Retained	
22	River Red-gum	<i>Eucalyptus camaldulensis</i>	33	104	Small Scattered Tree	2	Retained	
24	River Red-gum	<i>Eucalyptus camaldulensis</i>	59	185	Small Scattered Tree	2	Retained	
25	River Red-gum	<i>Eucalyptus camaldulensis</i>	41	129	Small Scattered Tree	2	Removed	
26	River Red-gum	<i>Eucalyptus camaldulensis</i>	30	94	Small Scattered Tree	2	Retained	
27	River Red-gum	<i>Eucalyptus camaldulensis</i>	42	132	Small Scattered Tree	2	Retained	
28	River Red-gum	<i>Eucalyptus camaldulensis</i>	38	119	Small Scattered Tree	2	Retained	
29	River Red-gum	<i>Eucalyptus camaldulensis</i>	23	72	Small Scattered Tree	2	Removed	
30	River Red-gum	<i>Eucalyptus camaldulensis</i>	52	163	Small Scattered Tree	2	Retained	
31	River Red-gum	<i>Eucalyptus camaldulensis</i>	46	145	Small Scattered Tree	2	Retained	
32	River Red-gum	<i>Eucalyptus camaldulensis</i>	34	107	Small Scattered Tree	2	Retained	
33	River Red-gum	<i>Eucalyptus camaldulensis</i>	120	377	Large Scattered Tree	2	Retained	

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

Tree No.	Common Name	Scientific Name	DBH (cm)	Circumference	Habitat Category	Radius of TPZ (m)	Remove/Retain	Notes
34	River Red-gum	<i>Eucalyptus camaldulensis</i>	71	223	Small Scattered Tree	2	Retained	
35	River Red-gum	<i>Eucalyptus camaldulensis</i>	57	179	Small Scattered Tree	2	Retained	
36	Eucalypt	<i>Eucalyptus sp.</i>	45	141	Large Tree in Habitat Zone CN	2	Retained	Dead.
37	Eucalypt	<i>Eucalyptus sp.</i>	60	188	Large Tree in Habitat Zone CN	2	Retained	Dead.
38	River Red-gum	<i>Eucalyptus camaldulensis</i>	95	298	Large Tree in Habitat Zone CN	2	Retained	
39	River Red-gum	<i>Eucalyptus camaldulensis</i>	91	286	Large Tree in Habitat Zone CN	2	Removed	Removal can be easily avoided.
40	River Red-gum	<i>Eucalyptus camaldulensis</i>	99	311	Large Tree in Habitat Zone CN	2	Removed	Removal can be easily avoided.
41	River Red-gum	<i>Eucalyptus camaldulensis</i>	104	327	Large Tree in Habitat Zone CN	2	Retained	
42	Eucalypt	<i>Eucalyptus sp.</i>	52	163	Large Tree in Habitat Zone CN	2	Retained	Dead.
43	Eucalypt	<i>Eucalyptus sp.</i>	67	210	Large Tree in Habitat Zone CN	2	Retained	Dead.
44	River Red-gum	<i>Eucalyptus camaldulensis</i>	98	308	Large Tree in Habitat Zone CN	2	Retained	
45	River Red-gum	<i>Eucalyptus camaldulensis</i>	88	276	Large Tree in Habitat Zone CN	2	Retained	
46	Eucalypt	<i>Eucalyptus sp.</i>	64	201	Large Tree in Habitat Zone CN	2	Retained	Dead.
47	Eucalypt	<i>Eucalyptus sp.</i>	59	185	Large Tree in Habitat Zone CN	2	Retained	Dead.
48	River Red-gum	<i>Eucalyptus camaldulensis</i>	132	415	Large Tree in Habitat Zone CN	2	Removed	Removal can be easily avoided.
49	River Red-gum	<i>Eucalyptus camaldulensis</i>	95	298	Large Tree in Habitat Zone CN	2	Removed	Removal can be easily avoided.

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

Tree No.	Common Name	Scientific Name	DBH (cm)	Circumference	Habitat Category	Radius of TPZ (m)	Remove/Retain	Notes
50	Eucalypt	<i>Eucalyptus</i> sp.	67	210	Large Tree in Habitat Zone CN	2	Retained	Dead.
51	Eucalypt	<i>Eucalyptus</i> sp.	84	264	Large Scattered Tree	10.08	Retained	Dead. Most likely River Red-gum
52	Eucalypt	<i>Eucalyptus</i> sp.	103	324	Large Scattered Tree	12.36	Removed	Dead. Most likely River Red-gum. Removal can be easily avoided.
53	River Red-gum	<i>Eucalyptus camaldulensis</i>	82	258	Large Scattered Tree	9.84	Removed	Removal can be easily avoided.
54	River Red-gum	<i>Eucalyptus camaldulensis</i>	143	449	Large Scattered Tree	15	Removed	Removal can be easily avoided.
55	River Red-gum	<i>Eucalyptus camaldulensis</i>	148	465	Large Scattered Tree	15	Retained	
56	River Red-gum	<i>Eucalyptus camaldulensis</i>	117	368	Large Scattered Tree	14.04	Retained	
57	River Red-gum	<i>Eucalyptus camaldulensis</i>	120	377	Large Scattered Tree	14.4	Retained	
58	River Red-gum	<i>Eucalyptus camaldulensis</i>	85	267	Large Scattered Tree	10.2	Retained	
59	River Red-gum	<i>Eucalyptus camaldulensis</i>	190	597	Large Scattered Tree	15	Retained	
60	River Red-gum	<i>Eucalyptus camaldulensis</i>	134	421	Large Scattered Tree	15	Retained	
61	River Red-gum	<i>Eucalyptus camaldulensis</i>	148	465	Large Scattered Tree	15	Removed	Removal can be easily avoided.
62	River Red-gum	<i>Eucalyptus camaldulensis</i>	86	270	Large Tree in Habitat Zone AA	10.32	Retained	
63	River Red-gum	<i>Eucalyptus camaldulensis</i>	105	330	Large Tree in Habitat Zone AA	12.6	Retained	
64	River Red-gum	<i>Eucalyptus camaldulensis</i>	103	324	Large Scattered Tree	12.36	Retained	
65	Eucalypt	<i>Eucalyptus</i> sp.	46	145	Large Tree in Habitat Zone DX	5.52	Retained	Dead.
66	River Red-gum	<i>Eucalyptus camaldulensis</i>	83	261	Large Tree in Habitat Zone AA	9.96	Retained	

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



Appendix 3: Flora species recorded in the project study area

Origin	Common name	Scientific name	EPBC	FFG-T	FFG-P	CaLP Act
	Silver Wattle	<i>Acacia dealbata</i>				
	Black Wattle	<i>Acacia mearnsii</i>				
	Blackwood	<i>Acacia melanoxylon</i>				
	Golden Wattle	<i>Acacia pycnantha</i>				
	Sheep's Burr	<i>Acaena echinata</i>				
	Bidgee-widgee	<i>Acaena novae-zelandiae</i>				
*	Sheep Sorrel	<i>Acetosella vulgaris</i>				
*	Brown-top Bent	<i>Agrostis capillaris</i>				
*	Hair Grass	<i>Aira spp.</i>				
	Common Swamp Wallaby-grass	<i>Amphibromus nervosus</i>				
	Common Wheat-grass	<i>Anthosachne scabra s.l.</i>				
*	Sweet Vernal-grass	<i>Anthoxanthum odoratum</i>				
*	Cape weed	<i>Arctotheca calendula</i>				
	Chocolate Lily	<i>Arthropodium strictum s.l.</i>				
	Common Woodruff	<i>Asperula conferta</i>				
*	Hastate Orache	<i>Atriplex prostrata</i>				
	Fine-head Spear-grass	<i>Austrostipa oligostachya</i>				
	Tall Spear-grass	<i>Austrostipa pubinodis</i>				
	Rough Spear-grass	<i>Austrostipa scabra subsp. <i>falcata</i></i>				
	Spear Grass	<i>Austrostipa spp.</i>				
*	Oat	<i>Avena spp.</i>				
	Marsh Club-sedge	<i>Bolboschoenus medianus</i>				
*	Great Brome	<i>Bromus diandrus</i>				
*	Soft Brome	<i>Bromus hordeaceus</i>				
	Blue Grass-lily	<i>Caesia calliantha</i>				
	Lemon Beauty-heads	<i>Calocephalus citreus</i>				
	Milky Beauty-heads	<i>Calocephalus lacteus</i>				
	Tall Sedge	<i>Carex appressa</i>				
	Sedge	<i>Carex spp.</i>				
	Common Cassinia	<i>Cassinia aculeata subsp. <i>aculeata</i></i>				
*	Common Centaury	<i>Centaurium erythraea</i>				
	Common Sneezeweed	<i>Centipeda cunninghamii</i>				
*	Common Mouse-ear Chickweed	<i>Cerastium glomeratum s.l.</i>				
*	Common Chamomile	<i>Chamaemelum nobile</i>				
*	Spear Thistle	<i>Cirsium vulgare</i>				R
	Pink Bindweed	<i>Convolvulus erubescens s.l.</i>				
*	Mirror Bush	<i>Coprosma repens</i>				
*	Water Buttons	<i>Cotula coronopifolia</i>				
	Common Water-ribbons	<i>Cynogeton procerum s.s.</i>				
*	Rough Dog's-tail	<i>Cynosurus echinatus</i>				
*	Cocksfoot	<i>Dactylis glomerata</i>				
	Flax-lily	<i>Dianella spp.</i>				
	Long-hair Plume-grass	<i>Dichelachne crinita</i>				
*	South African Orchid	<i>Disa bracteata</i>				

Origin	Common name	Scientific name	EPBC	FFG-T	FFG-P	CaLP Act
	Australian Salt-grass	<i>Distichlis distichophylla</i>				
	Sundew	<i>Drosera</i> spp.				
	Nodding Saltbush	<i>Einadia nutans</i>				
	Common Spike-sedge	<i>Eleocharis acuta</i>				
	Tall Spike-sedge	<i>Eleocharis sphacelata</i>				
	Hairy Willow-herb	<i>Epilobium hirtigerum</i>				
	Blue Devil	<i>Eryngium ovinum</i>				
	Prickfoot	<i>Eryngium vesiculosum</i>				
	River Red-gum	<i>Eucalyptus camaldulensis</i>				
*	Sugar Gum	<i>Eucalyptus cladocalyx</i>				
	Bog Gum	<i>Eucalyptus kitsoniana</i>	CR			
	Swamp Gum	<i>Eucalyptus ovata</i> subsp. <i>ovata</i>				
	Star Cudweed	<i>Euchiton involucratus</i> s.s.				
*	Tall Fescue	<i>Festuca arundinacea</i>				
	Knobby Club-sedge	<i>Ficinia nodosa</i>				
*	Desert Ash	<i>Fraxinus angustifolia</i>				
*	Cleavers	<i>Galium aparine</i>				
	Australian Sweet-grass	<i>Glyceria australis</i>				
	Varied Raspwort	<i>Haloragis heterophylla</i>				
*	Ox-tongue	<i>Helminthotheca echioides</i>				
*	Yorkshire Fog	<i>Holcus lanatus</i>				
*	Barley Grass	<i>Hordeum</i> spp.				
	Pennywort	<i>Hydrocotyle</i> spp.				
*	Flatweed	<i>Hypochaeris radicata</i>				
	Nodding Club-sedge	<i>Isolepis cernua</i> var. <i>cernua</i>				
	Club Sedge	<i>Isolepis</i> spp.				
	Toad Rush	<i>Juncus bufonius</i>				
	Gold Rush	<i>Juncus flavidus</i>				
	Joint-leaf Rush	<i>Juncus holoschoenus</i>				
	Pale Rush	<i>Juncus pallidus</i>				
	Rush	<i>Juncus</i> spp.				
	Running Postman	<i>Kennedia prostrata</i>				
	Common Blown-grass	<i>Lachnagrostis filiformis</i> s.l.				
	Purple Blown-grass	<i>Lachnagrostis semibarbata</i> var. <i>filifolia</i>	EN	p		
	Common Duckweed	<i>Lemna disperma</i>				
	Variable Sword-sedge	<i>Lepidosperma laterale</i>				
	Scaly Buttons	<i>Leptorhynchos squamatus</i>				
	Salt Pratia	<i>Lobelia irritua</i>				
	Poison Lobelia	<i>Lobelia pratoides</i>				
*	Rye Grass	<i>Lolium</i> spp.				
	Wattle Mat-rush	<i>Lomandra filiformis</i>				
*	Tall Wheat-grass	<i>Lophopyrum ponticum</i>				
*	African Box-thorn	<i>Lycium ferocissimum</i>				C
*	Pimpernel	<i>Lysimachia arvensis</i>				
	Small Loosestrife	<i>Lythrum hyssopifolia</i>				

Origin	Common name	Scientific name	EPBC	FFG-T	FFG-P	CaLP Act
*	Burr Medic	<i>Medicago polymorpha</i>				
#	Giant Honey-myrtle	<i>Melaleuca armillaris</i> subsp. <i>armillaris</i>		EN	p	
	Moonah	<i>Melaleuca lanceolata</i>				
	Common Onion-orchid	<i>Microtis unifolia</i>			p	
	Upright Water-milfoil	<i>Myriophyllum crispatum</i>				
	Grassland Wood-sorrel	<i>Oxalis perennans</i>				
*	Paspalum	<i>Paspalum dilatatum</i>				
	Five-awned Spear-grass	<i>Pentapogon quadrifidus</i> var. <i>quadrifidus</i>				
*	Toowoomba Canary-grass	<i>Phalaris aquatica</i>				
*	Lesser Canary-grass	<i>Phalaris minor</i>				
	Common Reed	<i>Phragmites australis</i>				
	Spiny Rice-flower	<i>Pimelea spinescens</i> subsp. <i>spinescens</i>	CR	CR	p	
*	Radiata Pine	<i>Pinus radiata</i>				
*	Rice Millet	<i>Piptatherum miliaceum</i>				
*	Buck's-horn Plantain	<i>Plantago coronopus</i>				
	Narrow Plantain	<i>Plantago gaudichaudii</i>				
*	Ribwort	<i>Plantago lanceolata</i>				
*	Annual Meadow-grass	<i>Poa annua</i> s.l.				
	Common Tussock-grass	<i>Poa labillardierei</i>				
	Common Tussock-grass	<i>Poa labillardierei</i> var. <i>labillardierei</i>				
	Grey Tussock-grass	<i>Poa sieberiana</i>				
*	Annual Beard-grass	<i>Polypogon monspeliensis</i>				
	Common Purslane	<i>Portulaca oleracea</i>				
	Thin Pondweed	<i>Potamogeton australiensis</i>				
	Austral Bracken	<i>Pteridium esculentum</i> subsp. <i>esculentum</i>				
	Buttercup	<i>Ranunculus</i> spp.				
*	Onion Grass	<i>Romulea rosea</i>				
*	Sweet Briar	<i>Rosa rubiginosa</i>				C
*	Blackberry	<i>Rubus fruticosus</i> spp. agg.				C
*	Clustered Dock	<i>Rumex conglomeratus</i>				
*	Curled Dock	<i>Rumex crispus</i>				
	Wiry Dock	<i>Rumex dumosus</i>				
	Common Wallaby-grass	<i>Rytidosperma caespitosum</i>				
	Short Wallaby-grass	<i>Rytidosperma carphoides</i>				
	Brown-back Wallaby-grass	<i>Rytidosperma duttonianum</i>				
	Bristly Wallaby-grass	<i>Rytidosperma setaceum</i> var. <i>setaceum</i>				
	Wallaby Grass	<i>Rytidosperma</i> spp.				
*	Willow	<i>Salix</i> spp.				R
	Creeping Brookweed	<i>Samolus repens</i> var. <i>repens</i>				
	Shiny Swamp-mat	<i>Selliera radicans</i>				
	Large Kangaroo Apple	<i>Solanum laciniatum</i>				
*	Black Nightshade	<i>Solanum nigrum</i> s.l.				
	Smooth Solenogyne	<i>Solenogyne dominii</i>				
*	Common Sow-thistle	<i>Sonchus oleraceus</i>				
	Lesser Sea-spurrey	<i>Spergularia marina</i> s.s.				

Origin	Common name	Scientific name	EPBC	FFG-T	FFG-P	CaLP Act
	Swamp Starwort	<i>Stellaria angustifolia</i> subsp. <i>angustifolia</i>				
	Sun Orchid	<i>Thelymitra</i> spp.			p	
	Kangaroo Grass	<i>Themeda triandra</i>				
	Creeping Monkey-flower	<i>Thyridia repens</i>				
	Yellow Rush-lily	<i>Tricoryne elatior</i>				
*	Strawberry Clover	<i>Trifolium fragiferum</i> var. <i>fragiferum</i>				
*	White Clover	<i>Trifolium repens</i> var. <i>repens</i>				
*	Clover	<i>Trifolium</i> spp.				
	Narrow-leaf Cumbungi	<i>Typha domingensis</i>				
*	Small Nettle	<i>Urtica urens</i>				
	Slender Speedwell	<i>Veronica gracilis</i>				
*	Common Vetch	<i>Vicia sativa</i>				
*	Squirrel-tail Fescue	<i>Vulpia bromoides</i>				
	Sprawling Bluebell	<i>Wahlenbergia gracilis</i>				

Notes: EPBC = threatened species status under EPBC Act; CR = Critically Endangered; EN = Endangered; VU = Vulnerable; FFG-T = threatened species status under FFG Act; CR = Critically Endangered; EN = Endangered; VU = Vulnerable; FFG-P = protected species status under the FFG Act; p = listed as generally protected; CaLP Act = declared noxious weeds status under the CaLP Act; S = State Prohibited Weeds (any infestations are to be reported to DEECA. DEECA is responsible for control of State Prohibited Weeds); P = Regionally Prohibited Weeds (Land owners must take all reasonable steps to eradicate regionally prohibited weeds on their land); C = Regionally Controlled Weeds (Land owners have the responsibility to take all reasonable steps to prevent the growth and spread of Regionally controlled weeds on their land); R = Restricted Weeds (Trade in these weeds and their propagules, either as plants, seeds or contaminants in other materials is prohibited); WONS = Weeds of National Significance

* = introduced to Victoria

= Victorian native taxa occurring outside their natural range

Appendix 4: Example photographs of vegetation within the Hexham Wind Farm site



Plains Grassland vegetation (EVC 132_61) in Habitat Zone 4A on Woolsthorpe-Hexham Road (10/06/2025), which also qualifies at NTGVVP and WBPVC



Plains Grassy Wetland vegetation (EVC 125) in Habitat Zone XAH (9/11/2021)



Creekline Tussock Grassland vegetation (EVC 68) in Habitat Zone XAU on Mustons Creek (10/11/2021)



Aquatic Herbland vegetation (EVC 653) in Habitat Zone XDE, on Mustons Creek (10/11/2021)



Plains Sedgy Wetland (EVC 647) in Habitat Zone XAA (8/11/2021)



Plains Grassy Woodland (EVC 55_61) in Habitat Zone XAL (11/11/2021)



Plains Grassy Woodland vegetation (EVC 55_61) (derived grassland form) in Habitat Zone DA3 on Hexham-Ballangeich Road (17/06/2025), which also qualifies as GEWVVP

Appendix 5: FFG Act and EPBC Act listed flora species and likelihood of occurrence

Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Casterton Wattle	<i>Acacia exudans</i>		Critically Endangered	Restricted to the far southwest of Victoria near Casterton, this species is found in heath or low eucalypt woodlands, frequently along degraded roadside verges (VicFlora 2025).	VBA	1	30/06/2009	Suitable habitat present within the Plains Grassy Woodland patches (1F & 1G) mapped along Dunkeld-Cavendish Rd, Cavendish. While records in the vicinity of this swept path intersection are scarce, it is within the overall distribution of the species, and the locality has been poorly surveyed historically. Potential to occur.	Swept path - Dunkeld-Cavendish Road, Cavendish.
Sticky Wattle	<i>Acacia howittii</i>		Vulnerable	Occurs in moist forest habitat in eastern Victoria, though the species is also widely cultivated and naturalised. Distributed in the vicinity of the Upper Macallistar River area near Mount Howitt, Yarram and Tabberabbera. Flowers October (RBVG 2023).	VBA	1	11/01/2016	Study area is outside of the natural species distribution. Commonly cultivated as an ornamental shrub. Local record likely refers to a planted specimen. Unlikely to occur.	Swept paths - Portland Transport Route.
Grampians Sheoak	<i>Allocasuarina grampiana</i>		Endangered	Victoria, endemic, known only from sandstone outcrops in Grampians (e.g. Victoria Range, Mt William) (VicFlora 2022).	VBA	1	7/03/2011	Study area outside natural distribution and nearby records are restricted to Grampians National Park. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
River Swamp Wallaby-grass	<i>Amphibromus fluitans</i>	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 (DCCEEW 2023).	PMST	No VBA records	N/A	Suitable (but sub-optimal) habitat along watercourses. No records within the search region. Unlikely to occur.	All.
Plump Swamp Wallaby-grass	<i>Amphibromus pithogastrus</i>		Critically Endangered	Grows in seasonally wet grassland and sedgeland habitat, primarily on basalt-derived soils. This species is very rare, with less than 20 plants recorded across seven sites in Victoria. This species has been detected in Mansfield, Donnybrook, Craigieburn, Derrimut, Mount Ercildoune and Creswick. Flowers October to December (DSE 2004).	VBA	4	14/11/2012	This species occurs within the search region around four of the swept path locations along the Portland Transport Route. These locations lack suitable habitat as they are heavily degraded and there few recent nearby records. Unlikely to occur.	Swept paths - Dunkeld-Cavendish Road, Dunkeld and the three intersections in Hamilton.
Rough-barked Apple	<i>Angophora floribunda</i>		Endangered	This species is found in near-coastal lowland forest habitat, supporting sandy soils. Distribution is restricted to far eastern Victoria, around Mallacoota and its surrounding river systems. The species is also known to be occasionally planted for ornamental purposes in other parts of the state. Flowers September to February (RBGV 2023).	VBA	1	10/04/2010	Study area outside natural distribution. Common street and ornamental tree. Local record likely refers to a planted specimen. Unlikely to occur.	Swept path - Henty Highway, Hamilton.
Downy Star-Bush	<i>Asterolasia phebalioides</i>	Vulnerable	Vulnerable	Victoria, occurs in Grampians and Little Desert in open woodland, forest and heath on sandstone and sandy soils (Duretto 1999).	PMST & VBA	13	17/10/2022	Local records are restricted to the Grampians National Park and no similar geology was found in any of the swept path areas. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.

Notes: grey shading = species likely or with potential to occur in study area; EPBC = status under EPBC Act; FFG = status under FFG Act.

Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Half-bearded Spear-grass	<i>Austrostipa hemipogon</i>		Vulnerable	A rare species found in mallee-scrub, woodland and grassland habitat. Known from Sunset Country and Big Desert, Stawell and Toolern Vale. Flowers October to December (RBGV 2023).	VBA	2	27/03/1978	Suitable habitat present within the Plains Grassy Woodland patches (1F & 1G) mapped along Dunkeld-Cavendish Rd, Cavendish. While records in the vicinity of this swept path intersection are scarce, it is within the overall distribution of the species, and the locality has been poorly surveyed historically. Potential to occur.	Swept path - Dunkeld-Cavendish Road, Cavendish.
Annual Spear-grass	<i>Austrostipa macalpinei</i>		Vulnerable	Occurs in sandy heathland, mallee and heathy woodlands of the Little Desert, southern Grampians, Mt Arapiles and southern parts of the Big Desert. Rare in Victoria, but may be locally abundant following fires (VicFlora 2025).	VBA	3	30/12/1968	Local records are restricted to the Grampians National Park and no suitable habitat was present within the swept path area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
River Leafless Bossiaea	<i>Bossiaea riparia</i>		Endangered	In Victoria, uncommon to rare, in south-west, Grampians and east, growing on streambanks, and in moist and dry situations in dry sclerophyll forest, often at relatively high altitudes (VicFlora 2022).	VBA	3	10/10/2010	Known species distribution is along streambanks and in forests. The few nearby records are from along the Wannon River. Unlikely to occur.	Swept path - Henty Highway, Hamilton.
Cactus Bossiaea	<i>Bossiaea walkeri</i>		Endangered	In Victoria, rare, restricted to north-west, occurring mainly in deep sand near Murray River and in Wyperfeld National Park, usually in mallee communities (VicFlora 2022).	VBA	1	13/08/1951	Study area outside natural distribution and lacks habitat. The locality of the nearby record in Hamilton is incorrect. Unlikely to occur.	Swept paths - The three intersections in Hamilton.
Spreading Brachyloma	<i>Brachyloma depressum</i>		Endangered	In Victoria, restricted to a few locations in Grampians, growing on sandy or rocky slopes of ranges or peaks, in woodland with a shrubby understorey (VicFlora 2022).	VBA	17	17/10/2022	Local records are restricted to the Grampians National Park and no similar geology was found in any of the swept path areas. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Reader's Daisy	<i>Brachyscome readeri</i>		Endangered	In Victoria, usually in areas subject to inundation in south-west and north near Murray River, between Swan Hill and Ulupna Island (VicFlora 2022).	VBA	1	1/11/1907	This species occurs within the search region around the swept path location in Penshurst along the Portland Transport Route. This location lacks suitable habitat as it is heavily degraded and there is only a single recent nearby record. Unlikely to occur.	Swept path - Penshurst-Dunkeld Road, Penshurst.
Crimson Spider-orchid	<i>Caladenia concolor</i>	Vulnerable	Endangered	Found in open Box-Ironbark forest communities, usually supporting an understory of scattered heaths and grasses. Favoured soils include well-drained stony sands and clay loams. Distributed around Beechworth and Chiltern in north-eastern Victoria, with additional populations possibly occurring in the Broadford and Tyaak areas. Flowers September to October (Coates 2003c).	PMST	No VBA records	N/A	There are no recent records, and study area is outside of the known species distribution. Unlikely to occur.	Swept paths - Dunkeld-Cavendish Road, Cavendish and Dunkeld-Cavendish Road, Dunkeld.
Elegant Spider-orchid	<i>Caladenia formosa</i>	Vulnerable	Critically Endangered	Dry woodlands of western Victoria and southeast South Australia mostly on Quaternary sand deposits that are moist in winter and dry in summer. Known extent between Edenope and Cavendish (Todd 2000).	VBA	1	20/10/1946	Study area lacks suitable geology and there is a lack of recent nearby records. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Cavendish.
Ornate Pink-fingers	<i>Caladenia ornata</i>	Vulnerable	Endangered	Distributed in the south-west of Victoria, where it occurs in heathy forest and among shrubs on seasonally moist sandy loams (Jones 2006; RGV 2025).	PMST	No VBA records	N/A	Study area outside of known distribution and there are no recent nearby records. Unlikely to occur.	Swept paths - Dunkeld-Cavendish Road, Cavendish and Dunkeld-Cavendish Road, Dunkeld.

Notes: grey shading = species likely or with potential to occur in study area; EPBC = status under EPBC Act; FFG = status under FFG Act.

Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Rigid Spider-orchid	<i>Caladenia tensa</i>	Endangered		Known to occur in Eucalyptus and Callitris woodland in well-drained sandy loams, among shrubs. Widespread within and near Little Desert (Jones 2006).	PMST	No VBA records	N/A	Study area outside of known distribution and there are no recent nearby records. Unlikely to occur.	Swept paths - Dunkeld-Cavendish Road, Cavendish and Dunkeld-Cavendish Road, Dunkeld.
Large White Spider-orchid	<i>Caladenia venusta</i>		Endangered	Grows in woodland and heathy woodland habitat, on well-drained to moist soils. Usually found in coastal and sub-coastal areas, though the species is also known from the Grampians. Flowers September to November (RBGV 2023).	VBA	3	6/03/2006	Local records are restricted to the Grampians National Park. Unlikely to occur.	Swept paths - Dunkeld-Cavendish Road, Cavendish and Dunkeld-Cavendish Road, Dunkeld.
Cut-leaf Burr-daisy	<i>Calotis anthemoides</i>		Critically Endangered	A rare species that grows in habitat prone to waterlogging, on heavy soils. Distributed in the north and west of Victoria. Flowers September to December (RBGV 2023).	VBA	3	21/10/2010	Suitable habitat in EVCs 132_61 and 55. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Curly Sedge	<i>Carex tasmanica</i>		Endangered	Grows on heavy basalt clay soils in grassy and sedgy habitat, around the margins of drainage lines and freshwater swamps (Carter 2010). The species is found north of Melbourne around the Craigieburn area, and in the west of Victoria around Portland and Heywood. Flowers September to November (RBGV 2023).	VBA	1	8/12/2005	Suitable habitat along drainage lines in EVCs 125, 641 and 821. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Small Milkwort	<i>Comesperma polygaloides</i>		Critically Endangered	Grows in remnant native grassland of the Western (Basalt) Plains, in association with Kangaroo Grass <i>Themeda triandra</i> , Common Tussock-grass <i>Poa labillardieri</i> , Wallaby-grass <i>Rytidosperma</i> spp. and Spear-grass <i>Austrostipa</i> spp. The species is also known from Grey Box Eucalyptus <i>microcarpa</i> and Yellow Gum Eucalyptus <i>leucoxylon</i> grassy woodlands in the Wimmera and Bendigo areas. Flowers November to February (DSE 2004).	VBA	2	20/10/2021	Suitable habitat in EVCs 132_61 and 55. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Branched Everlasting	<i>Coronidium adenophorum</i>		Endangered	Known from dune mallee of the Big Desert and heathy woodland on Mt Abrupt in the Grampians (RBGV 2025).	VBA	3	6/01/1969	Study area lacks habitat. Local records are restricted to the Grampians National Park. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Pale Swamp Everlasting	<i>Coronidium gunnianum</i>		Critically Endangered	Occurs predominantly in grasslands and riverine River Red-gum woodland of fertile plains on soils that are prone to inundation (e.g., gilgai depressions and seasonal herbaceous wetlands) (DEECA 2023; RGV 2023). The species is widespread throughout the state, with the exception of alpine areas and north-west Victoria (RBGV 2025).	VBA	4	13/12/2013	Suitable habitat in EVCs 55, 125, 132_61 and 654. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Hairy Correa	<i>Correa aemula</i>		Endangered	It occurs in heathy and shrubby woodland on well drained soils derived from sandstone and granite. Sites are usually rocky, often with exposure of boulders and cliffs. The taxon's distribution is widespread in the Grampians, with outlying populations in the Mt Langi Ghiran area, the Black Range, and Mt Dundas (DELWP 2021).	VBA	10	17/10/2022	Study area outside of natural distribution and lacks suitable geology. This species is largely confined to areas of high-quality native vegetation (e.g., Grampians National Park). Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Dwarf Boronia	<i>Cyanothamnus nanus</i> var. <i>pubescens</i>		Endangered	Grows in open-forest, woodland and heath on rocky or sandy substrates (VicFlora 2021), and is apparently endemic to Victoria, occurring between the Grampians and Ben Major near Lexton (VicFlora 2021). This taxon apparently only occurs in the Grampians and nearby ranges to the east towards Beaufort. Records from the south west, Otways and the north east are likely to be misidentified plants of either var. <i>nana</i> , which can occasionally be slightly hairy, or possibly <i>B. pilosa</i> var. <i>torquata</i> , which is also very hairy and occasionally sub-erect to spreading shrub (DELWP 2021).	VBA	2	5/02/2000	Study area outside of natural distribution and lacks suitable geology. This species is largely confined to areas of high-quality native vegetation (e.g., Grampians National Park). Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.

Notes: grey shading = species likely or with potential to occur in study area; EPBC = status under EPBC Act; FFG = status under FFG Act.

Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Matted Flax-lily	<i>Dianella amoena</i>	Endangered	Critically Endangered	Mostly found in drier lowland grassland and grassy woodlands on well-drained to seasonally waterlogged fertile sandy loams to heavy cracking soils derived from sedimentary or volcanic geology. Commonly associated native species include <i>Themeda triandra</i> , <i>Microlaena stipoides</i> var. <i>stipoides</i> , <i>Anthosachne scaber</i> , <i>Poa labillardierei</i> and <i>Rytidosperma racemosum</i> var. <i>racemosum</i> . Most sites contain a high cover of introduced plant species and the surrounding landscape is often highly altered. Widely distributed from eastern to south-western Victoria. Flowers December to February (Carter 2010; RBGV 2023).	PMST & VBA	1	22/12/2011	Suitable habitat in EVCs 55 and 132_61. While records in the vicinity are scarce, the study area is within the overall distribution of the species, and the locality has been poorly surveyed historically. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Swamp Flax-lily	<i>Dianella callicarpa</i>		Endangered	Found in grassland, woodland and swamp scrub on sandy soils or clay soils derived from basalt in the southwest of Victoria. Flowers October to February (RBGV 2023).	VBA	5	31/10/2023	Suitable habitat in EVCs 55 and 132_61. While records in the vicinity are scarce, the study area is within the overall distribution of the species, and the locality has been poorly surveyed historically. Potential to occur.	All.
Glaucous Flax-lily	<i>Dianella longifolia</i> var. <i>grandis</i> s.l.		Critically Endangered	Occurs in lowland plains grassland and grassy woodlands as well as around rocky outcrops. Flowers November to December (RBGV 2023).	VBA	3	5/02/1978	Suitable habitat in EVCs 55 and 132_61. While records in the vicinity are scarce, the study area is within the overall distribution of the species, and the locality has been poorly surveyed historically. Potential to occur.	All.
Grampians Parrot-pea	<i>Dillwynia oreodoxa</i>		Vulnerable	The taxon is found on rocky hillsides in heathy woodlands and open forests (VicFlora 2017). Most sites are in open forest rather than heathy woodland and not all sites are rocky hillsides with some associated species such as <i>Correa aemula</i> and <i>Marianthus bignoniaceus</i> . This suggests that the habitat range extends to damper sheltered sites while other associates such as <i>Hypolaena fastigiata</i> , <i>Lepidosperma viscidum</i> or <i>Caustis flexuosa</i> , suggesting sandier profiles (DELWP 2021).	VBA	2	6/03/2006	Study area outside of natural distribution and lacks suitable habitat and geology. This species is largely confined to areas of high-quality native vegetation (e.g., Grampians National Park). Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Bell-flower Hyacinth-orchid	<i>Dipodium campanulatum</i>	Endangered	Endangered	Reported from only a few scattered localities west of Melbourne to Portland (Entwistle 1994).	PMST	No VBA records	N/A	There are no recent records, and study area is outside of the known species distribution. Unlikely to occur.	Swept path - Portland Road, Hamilton.
Golden Cowslips	<i>Diuris behrii</i>		Endangered	Scattered across western Victoria, where the species is locally common in grassland and open woodland habitat. Flowers September to November (EBGV 2023).	VBA	12	20/10/2021	Suitable habitat in EVCs 55 and 132_61. Potential to occur.	All.
Western Purple Diuris	<i>Diuris daltonii</i>		Critically Endangered	Apparently confined to western Victoria between Mt Arapiles and the Grampians, in heathy forests and River Red-gum (<i>Eucalyptus camaldulensis</i>) woodlands on water-retentive soils (Jeanes 2015).	VBA	2	15/11/1969	Suitable habitat present within the Plains Grassy Woodland patches (1F & 1G) mapped along Dunkeld-Cavendish Rd, Cavendish. Whilst there is a lack of recent nearby records, the locality has been poorly surveyed historically. Potential to occur.	Swept path - Dunkeld-Cavendish Road, Cavendish

Notes: grey shading = species likely or with potential to occur in study area; EPBC = status under EPBC Act; FFG = status under FFG Act.

Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Clumping Golden Moths	<i>Diuris gregaria</i>		Critically Endangered	Grassland dominated by Kangaroo Grass and among rocks on basalt outcrops in red-brown to blackish loams. Highly localised in Derrinallum-Chatsworth area (Jones 2006).	VBA	4	21/10/2010	Suitable habitat in several patches of EVC 132_61, particularly in roadside patches which are more commonly dominated by Kangaroo Grass. While the study area is on the southern edge of species distribution, the locality has been poorly surveyed historically. Potential to occur.	All.
Trailing Hop-bush	<i>Dodonaea procumbens</i>	Vulnerable		Grows in a variety of habitats, including woodland, low open forest, grassland and heathland, where the species is found in winter-wet areas on clays and sands. Largely restricted to the south-west of the state, between Castlemaine, Dergholm and Cressy. Flowers spring to summer (Carter 2010).	PMST & VBA	11	9/04/2011	Suitable habitat within EVCs 132_61 and 55. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Cane Grass	<i>Eragrostis australasica</i>		Critically Endangered	Largely confined to clay-pans and shallow lakes in the north-west, from near Kerang to the SA border. More southerly records are often associated with irrigation channels and it's likely that these plants have established through inadvertent transport of seed.	VBA	1	24/08/1977	Lack of suitable habitat within the study area and a paucity of recent nearby records. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Cavendish.
Buxton Gum	<i>Eucalyptus crenulata</i>	Endangered	Endangered	Grows in swampy habitat in the foothills of the Great Dividing Range. Distributed around Buxton, Narbethong and Yarra Glen. Flowers September to February (RBGV 2023).	VBA	1	22/05/2011	Study area is outside of the natural species distribution. Commonly cultivated as an ornamental tree. Local record likely refers to a planted specimen. Unlikely to occur.	Swept path - Henty Highway, Hamilton.
Western Peppermint	<i>Eucalyptus falciformis</i>		Vulnerable	Occurs on sandy soils in near-coastal heathy woodland from Anglesea area west to the SA border, sometimes adjacent to wetter vegetation. Also locally common in broadly similar vegetation in the Grampians (RBGV 2025).	VBA	2	5/02/2000	Local records are restricted to the Grampians National Park and no similar geology was found in any of the swept path areas. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Southern Blue-gum	<i>Eucalyptus globulus</i> subsp. <i>globulus</i>		Endangered	Occurs in wet forests on a range of aspects, often in association with Mountain Ash or Mountain Grey-gum (DEECA 2023). In Victoria, the natural distribution of subsp. <i>globulus</i> is thought to be the area south of the Strzelecki Range, e.g. Port Franklin, Wilsons Promontory, and that other populations in south Gippsland and the Otway Ranges probably represent intergrades between the other subsp. (RBGV 2023). Indigenous occurrences of the taxon are reliably recorded also for French Island and Phillip Island in Western Port Bay (DEECA 2023). The taxon intergrades extensively with subsp. <i>globulus</i> , <i>bicostata</i> and <i>pseudoglobulus</i> which can make it almost impossible to attribute definitely to a certain subspecies (RBGV 2023). All other records of the taxon throughout Victoria, particularly in the Melbourne and Ballarat regions, but extending as far as Hamilton, Bendigo and the La Trobe Valley, are either plantings, garden escapes or wildlings from plantations (DEECA 2023).	VBA	1	10/04/2010	Study area is outside of the natural species distribution. Commonly cultivated in plantations and as an ornamental tree. Local record likely refers to a planted specimen. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Large-fruit Yellow-gum	<i>Eucalyptus leucoxylon</i> subsp. <i>megalocarpa</i>		Critically Endangered	Found in coastal shrubland, on loamy soils overlying limestone. Primarily concentrated in the south-west of the state, south of Nelson. Flowers spring to summer (Nicolle 2006).	VBA	1	21/11/2012	Study area is outside of the natural species distribution. Commonly cultivated as an ornamental tree. Local record likely refers to a planted specimen. Unlikely to occur.	Swept paths - The three intersections in Hamilton.

Notes: grey shading = species likely or with potential to occur in study area; EPBC = status under EPBC Act; FFG = status under FFG Act.

Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Wimmera Scentbark	<i>Eucalyptus sabulosa</i>		Vulnerable	Populations of the taxon are small and sporadic, and are always on sandy soils. <i>E. sabulosa</i> and <i>E. aromaphloia</i> overlap on the eastern edge of the Grampians in the Hall's Gap-Pomonal area. Associated taxa include <i>E. alaticaulis</i> , <i>E. baxteri</i> , <i>E. melliodora</i> , two forms of <i>E. goniocalyx</i> , and <i>E. obliqua</i> . In other areas such as the Little Desert, <i>E. arenacea</i> is a common associate, whilst <i>E. leucoxylon</i> subsp. <i>stephaniae</i> and various mallee taxa may occur nearby (DELWP 2021).	VBA	7	17/10/2022	Local records are restricted to the Grampians National Park and no similar geology was found in any of the swept path areas. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Mt Abrupt Stringybark	<i>Eucalyptus verrucata</i>		Vulnerable	Endemic to Victoria where it occurs on exposed, rugged, rocky sites on the southern end of the Serra Range (e.g., Mt Abrupt) in the Grampians National Park.	VBA	9	22/09/2017	Local records are restricted to the Grampians National Park and no similar geology was found in any of the swept path areas. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Yarra Gum	<i>Eucalyptus yarraensis</i>		Critically Endangered	Found in valley sclerophyll forest communities, usually in association with low-lying riparian plains. The species is distributed from Ararat in the northwest, to Glengarry in the east. Flowers September to December (RBGV 2023).	VBA	1	12/04/2011	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in any of the swept path areas. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Tight Bedstraw	<i>Galium curvihirtum</i>		Vulnerable	In Victoria, occurs in disjunct locations in the south-west and east of the state where it usually found in open-forest and woodland (RBGV 2025).	VBA	3	3/04/2002	Local records are restricted to the Grampians National Park. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Austral Crane's-bill	<i>Geranium solanderi</i> var. <i>solanderi</i> s.s.		Endangered	An uncommon species found in grassy woodlands, often in sheltered and damp conditions. This species is distributed across the state. Flowers October to January (RBGV 2023).	VBA	1	24/11/1979	Suitable habitat present within the Plains Grassy Woodland patches (1F & 1G) mapped along Dunkeld-Cavendish Rd, Cavendish. Whilst there is a lack of recent nearby records, the locality has been poorly surveyed historically. Potential to occur.	Swept path - Dunkeld-Cavendish Road, Cavendish
Pale-flower Crane's-bill	<i>Geranium</i> sp. 3		Endangered	Grows in open grassy portions of dry woodland and forest habitat. Currently only found around Stawell, Yan Yean, Eltham and Bonegilla. Possibly also known from Goroke and Hamilton, though this is not confirmed. Flowers September to January (RBGV 2023).	VBA	3	25/09/2019	Suitable habitat within EVC 55. The nearby records have not been confirmed due to the taxonomic uncertainty of the species. However, assuming they are genuine records of the species, there is potential to occur within the study area.	All.
Clover Glycine	<i>Glycine latrobeana</i>	Vulnerable	Vulnerable	Primarily favours grassland and grassy woodland, though also known from dry forest and rarely heathland. This species mostly grows on clays and sometimes more loamy soils. Distribution is widespread but sporadic across the state. Flowers during spring at lower elevations, and during summer at higher elevations (Carter & Sutter 2010).	PMST & VBA	11	17/12/1998	Suitable habitat in EVCs 132_61 and 55. Potential to occur. Not recorded during targeted surveys, and therefore now considered unlikely to occur.	All.
Hairy Raspwort	<i>Gonocarpus mezianus</i>		Vulnerable	In Victoria, this species is restricted to the Grampians National Park where it occurs in dry rocky soils.	VBA	10	17/10/2022	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in any of the swept path areas. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Grampians Goodenia	<i>Goodenia lineata</i>		Vulnerable	Found on sandy soils in heathland from the Grampians, Mt Clay and lower Glenelg River areas (Vicflora 2023).	VBA	1	1/11/1902	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in any of the swept path areas. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.

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Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Western Golden-tip	<i>Goodia medicaginea</i>		Endangered	Grows in drier sclerophyll forest. Scattered across the state, from Portland and Mount Arapiles in the south-west, to Long Forest, Eaglehawk, Killawarra Forest and the Suggan Buggan area. Flowers August to September (RBGV 2023).	VBA	2	18/11/2009	Study area is within the known species distribution. However, there is a lack of suitable habitat and it is a conspicuous species that was not recorded during the detailed flora surveys. Unlikely to occur.	Swept path - Henty Highway, Hamilton.
Flame Grevillea	<i>Grevillea dimorpha</i>		Endangered	Endemic to Victoria where it is restricted to the Grampians (Gariwerd) National Park (DEECA 2023; RGV 2023). It occurs in moister areas of dry sclerophyll forest, or heath on sandy soils on sandstone (RBGV 2023). The taxon is located primarily within the Mount William and Serra Ranges, extending from the Halls Gap area to near Dunkeld (DEECA 2023)	VBA	42	17/10/2022	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in any of the swept path areas. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Creeping Rush	<i>Juncus revolutus</i>		Endangered	Found growing in damp, saline habitat. Primarily concentrated along the coast, though the species is also known from saline lakes on the volcanic plain. Flowers October to January (EBGV 2023).	VBA	1	25/03/1974	Species is predominantly coastal. While some drainage lines within the study area may be slightly saline, the study area does not support any highly saline lakes or associated suitable habitat. Unlikely to occur.	Project study area.
Adamson's Blown-grass	<i>Lachnagrostis adamsonii</i>	Endangered	Endangered	Occurs in drainage lines, slow-moving creeks and damp depressions. Known to favour sheltered sites, with moderate to high salinity. Companion species include Streaked Arrowgrass <i>Triglochin striata</i> , Plains Saltmarsh-grass <i>Puccinellia stricta</i> var. <i>perlaxa</i> , Australian Salt-grass <i>Distichlis distichophylla</i> , Common Blown-grass <i>Lachnagrostis filiformis</i> and Beaded Glasswort <i>Sarcocornia quinqueflora</i> . Distributed from Clifton Springs (near Geelong) to the Coleraine area, in southwest Victoria. Flowers November to February (Murphy 2010).	PMST & VBA	4	9/06/2001	Suitable habitat along drainage lines. Potential to occur in EVC 125. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Salt Blown-grass	<i>Lachnagrostis robusta</i>		Endangered	Found in saline depressions and on the edges of saline lakes. Primarily distributed in the Volcanic Plain, with outlying populations near Tooradin, Seaspray and the Grampians. Flowers during spring (RBGV 2023).	VBA	1	16/01/1997	The study area does not support any highly saline lakes or associated suitable habitat. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Cavendish.
Purple Blown-grass	<i>Lachnagrostis semibarbata</i> var. <i>filiifolia</i>		Endangered	Grow in partially saline depressions in grassland and sometimes woodland habitat. Occur in the south of the state, where distribution is scattered from around Sale to the South Australian border. Flowers October to February (RBGV 2023).	VBA	2	30/06/2009	Suitable habitat along drainage lines. Potential to occur in EVCs 125, 641 and 821. Recorded during targeted surveys in habitat zone XBR, XBS, IH and II. Does occur.	All.
Purple Blown-grass	<i>Lachnagrostis semibarbata</i> var. <i>semibarbata</i>		Endangered	Grow in partially saline depressions in grassland and sometimes woodland habitat. Occur in the south of the state, where distribution is scattered from around Sale to the South Australian border. Flowers October to February (RBGV 2023).	VBA	1	15/12/1995	Suitable habitat along drainage lines. Potential to occur in EVCs 125, 641 and 821. Not recorded during targeted surveys. Unlikely to occur.	All.
Truncate Leionema	<i>Leionema bilobum</i> subsp. <i>bilobum</i>		Vulnerable	Grows in heathy habitat in the Grampians, often in elevated rocky sites. Primarily distributed in the north and east of the area. Flowers May to November (RBGV 2023).	VBA	1	9/06/1968	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.

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Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Spiny Peppercress	<i>Lepidium aschersonii</i>	Vulnerable	Endangered	Spiny Peppercress grows on heavy clay soils in periodically wet sites, such as gilgai depressions and along the edges of shallow waterbodies. The majority of records are found in western Victoria, around Mortlake, Cressy, Colac and Ararat. An outlying occurrence has also been noted at Lake Omeo in the east of Victoria. Flowers spring to autumn (Carter 2010).	PMST	No VBA records	N/A	No suitable habitat. Unlikely to occur.	All.
Basalt Peppercress	<i>Lepidium hyssopifolium</i> s.s.	Endangered	Endangered	Basalt Peppercress is likely to have been originally found in native grassland and/or grassy woodland habitat. Remaining populations are now known to grow on light-heavy clay loams in highly modified settings, with prominent exotic components and some open bare ground. Many occupied sites occur on roadsides, adjacent to agricultural land and in small reserves. The species is primarily known from the volcanic plains west of Melbourne and the Victorian Midlands. Flowers summer to autumn (Tumino 2010).	PMST	No VBA records	N/A	Species rarely recorded in disjunct populations, and not recorded in surrounding locality. Unlikely to occur.	All.
Shiny Tea-tree	<i>Leptospermum turbinatum</i>		Endangered	Endemic to Victoria where it is confined to the Grampians, Mt Langi Ghiran, Mt Buangor and Ben Nevis where it occurs on sandstone and granitic outcrops (RBGV 2025).	VBA	10	17/10/2022	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Twisting Scale-rush	<i>Lepyrodia flexuosa</i>		Vulnerable	Endemic to Victoria, where it is confined to the Grampians and surrounds. Occurs in moist peaty soils and along the margins of small creeks (RBGV 2025).	VBA	2	10/04/1998	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
White Sunray	<i>Leucochrysum albicans</i> subsp. <i>Tricolor</i>	Endangered	Endangered	The White Sunray favours basaltic clay soils and sometimes sandy-clay soils of sedimentary origin. In Victoria it is found in grassland communities, with some bare ground for successful germination. Common companion graminoids include <i>Themeda triandra</i> , <i>Dichelachne crinita</i> , <i>Austrostipa</i> spp. and <i>Rytidosperma</i> spp., while companion herbs include <i>Eryngium ovinum</i> , <i>Calocephalus citreus</i> , <i>Acaena echinata</i> and <i>Leptorhynchus squamatus</i> . White Sunray is found in the state's south-west, between Colac, Inverleigh, Ballarat, Ararat and Hamilton. Flowers November to December (Sinclair 2011).	PMST & VBA	4	20/10/2021	Suitable habitat in EVCs 132_61 and 55. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Thyme Beard-heath	<i>Leucopogon thymifolius</i>		Vulnerable	Endemic to Victoria where it is confined to the Grampians and nearby Pomonal where it occurs in open-forest and heathy woodland usually in elevated sites (e.g., Mt William, Serra, Victoria and Mt Difficult Ranges) (RBGV 2025).	VBA	4	22/09/2017	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Common Beard-heath	<i>Leucopogon virgatus</i> var. <i>brevifolius</i>		Endangered	Rather uncommon on heathland and healthy woodland on deep sands from the Douglas-Edenope area in the south west to northern fringe of Little desert (Powell et al. 1996).	VBA	1	9/04/2011	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Small-flower Mat-rush	<i>Lomandra micrantha</i> subsp. <i>tuberculata</i>		Vulnerable	Grows on sandy soils in heathy habitat. Distribution is primarily concentrated around the Grampians, with outlying populations also found near Seymour and Portland. Flowers May to October (RBGV 2023).	VBA	1	3/02/2012	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Orange Bell-climber	<i>Marianthus bignoniaceus</i>		Endangered	In Victoria, locally common in damp open forest and dense scrub along streams or in elevated sites amongst rock in Grampians and Black Range (VicFlora 2022).	VBA	8	6/03/2006	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.

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Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Giant Honey-myrtle	<i>Melaleuca armillaris</i> subsp. <i>armillaris</i>		Endangered	A near-coastal species that grows in sandy heath, scrub (associated with saltmarsh and/or riparian habitat) and rocky habitat in coastal and foothill areas. Naturally occurs eastwards from Marlo, though the species is widely cultivated outside its natural distribution. Flowers during summer (RBGV 2023).	VBA	6	11/01/2016	Study area is outside of the natural species distribution. Commonly cultivated as street tree and an ornamental shrub. Local records likely refer to planted specimens. Unlikely to occur.	Swept path - Cavendish, Dunkeld, Hamilton and Penshurst.
Plains Yam-daisy	<i>Microseris scapigera</i> s.s.		Critically Endangered	An increasingly rare species found in moist depressions on basaltic plains. Primarily distributed west of Melbourne. Flowers spring to summer (RBGV 2023).	VBA	1	30/06/2009	Suitable habitat in EVCs 132_61 and 55. Study area on edge of current distribution in Victoria, but formerly widespread, and the locality has been poorly surveyed historically. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Narrow-leaf Phebalium	<i>Phebalium stenophyllum</i>		Endangered	In Victoria occurs primarily in the far west, but has also been recorded from Mt Zero and Mt Abrupt in the Grampians and from near Blackwood. Occurs in eucalypt woodland on shallow, rocky soils, or in heath or mallee on sand (RBGV 2025).	VBA	1	01/01/1770	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Slender Rice-flower	<i>Pimelea linifolia</i> subsp. <i>linoides</i>		Endangered	In Victoria, only known from the Grampians and Wilsons Promontory, growing in rocky sites within heathy woodlands and dry forests on soils derived from sandstone (DELWP 2021; VicFlora 2025).	VBA	4	17/10/2022	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Spiny Rice-flower	<i>Pimelea spinescens</i> subsp. <i>spinescens</i>	Critically Endangered	Critically Endangered	Found growing in grassland, open shrubland and occasionally woodland on soils derived from basalt, usually comprising black or grey clays. Populations in the north of Victoria occur on red clay complexes, while southern populations occur on heavy grey-black clay loams. Occurs primarily on flat land but can occur on slight rises or in slightly wettish depressions. Flowers April to August (Carter, O & Walsh, N 2006; RGV 2023).	PMST & VBA	23	15/05/2020	Suitable habitat in EVC 132_61. Recorded incidentally during vegetation surveys. Recorded in habitat zone 1N. Does occur.	All.
Salt-lake Tussock-grass	<i>Poa sallacustris</i>	Vulnerable	Critically Endangered	Margins of brackish to salt lakes (Walsh 1994).	PMST	No VBA records	N/A	No suitable habitat. Unlikely to occur.	All.
Gorae Leek-orchid	<i>Prasophyllum diversiflorum</i>	Endangered	Critically Endangered	Wet grasslands or inundated swamps among tussocks (Jones 2006).	PMST	No VBA records	N/A	While some suitable wet tussock grassland occurs, the study area is outside of the known distribution of the species. Unlikely to occur.	Swept paths along the Portland transport route.
Western Gaping Leek-orchid	<i>Prasophyllum</i> sp. aff. <i>correctum</i> (Mortlake)		Critically Endangered	Known from grassland west of Mortlake in the Mortlake Common Flora Reserve as well as immediately south of Mortlake on agricultural land (VicFlora 2025).	VBA	5	29/11/2020	Suitable habitat in EVC 132_61, and study area close to only known populations. Potential to occur.	All.
Clumping Leek-orchid	<i>Prasophyllum</i> sp. aff. <i>occidentale E</i>		Critically Endangered	Known from remnant native grassland near Wingeel, Derrinallum and Vite Vite in western Victoria (VicFlora 2025).	VBA	1	6/11/2013	Suitable habitat in EVC 132_61, and study area close to only known populations. Potential to occur.	All.
Dense Leek-orchid	<i>Prasophyllum spicatum</i>	Vulnerable	Critically Endangered	Distributed across southern Victoria primarily along the coast from the SA border to Wonthaggi. Primarily occurs in low, windswept coastal and near-coastal heathland, sandhills and heathy woodland where soils are generally sand and clay loams which are usually damp but well drained, although some sites can experience seasonal waterlogging. Additionally, it is found in grasslands. Flowers October to December (DEECA 2023; RGV 2023; Duncan 2010).	PMST	No VBA records	N/A	The study area does not support coastal heathland, sandhills or heathy woodland, and it is outside species distribution. Unlikely to occur.	All.

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Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Fragrant Leek-orchid	<i>Prasophyllum suaveolens</i>	Endangered	Critically Endangered	Endemic to the southwest of Victoria, specifically on the basalt plains where it occurs in grassland and open grassy woodland on red-brown water-retentive clay loams often with embedded basalt boulders. It occurs primarily in grassland dominated by Kangaroo Grass (<i>Themeda triandra</i>) along with tussock-forming perennial grasses, wildflowers and herbs. Much of the present habitat exists within rail and road reserves and areas that qualify as NTGVVP and/or W(B)PG listed communities. Flowers October to November (RBGV 2023; TSSC 2016).	PMST & VBA	23	31/10/2019	Suitable habitat in EVC 132_61, particularly in roadside remnants dominated by Kangaroo Grass. Potential to occur.	All.
Basalt Leek-orchid	<i>Prasophyllum viretrum</i>		Critically Endangered	Moist to wet grassland on dark basaltic loam (Jones & Rouse 2006).	VBA	6	29/11/2020	No suitable habitat. Unlikely to occur.	All.
Green-striped Greenhood	<i>Pterostylis chlorogramma</i>	Vulnerable	Endangered	Found growing on sandy-loam soils in Box-Stringbark forest, often supporting a canopy of <i>Eucalyptus obliqua</i> , <i>Eucalyptus radiata</i> , <i>Eucalyptus cephalocarpa</i> and/or <i>Eucalyptus cypellocarpa</i> . The understory typically comprises a dominant <i>Pteridium esculentum</i> component, and may also include <i>Hakea ulicina</i> , <i>Dillwynia glaberrima</i> , <i>Pultenaea scabra</i> , <i>Banksia spinulosa</i> , <i>Epacris impressa</i> , <i>Acacia mucronata</i> , <i>Leptospermum laevigatum</i> , <i>Monotoca scoparia</i> , and <i>Bursaria spinosa</i> . The species has a scattered distribution from Yarram to Edenhope. Flowers July to September (Duncan, Pritchard & Coates 2009).	PMST	No VBA records	N/A	The study area does not support sandy-loam soils or commonly associated species. No nearby records. Unlikely to occur.	All.
Leafy Greenhood	<i>Pterostylis cucullata</i>	Vulnerable		Tea-tree scrubs on tall sandy and calcareous dunes, in moist, open or even deep shaded locations (Jones 1994).	PMST	No VBA records	N/A	No suitable habitat. Unlikely to occur.	All.
Crowded Greenhood	<i>Pterostylis diminuta</i>		Endangered	Endemic to Victoria where it occurs between Ballarat and the Grampians in woodland and open forest with a tussocky or sparse shrubby understorey, on well-drained gravelly or stony soil (RBGV 2025).	VBA	4	10/09/2010	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Inland Red-tip Greenhood	<i>Pterostylis rubescens</i>		Endangered	Grows on ridges and slopes supporting well-drained soils, primarily in dry open forest and woodland habitat. Widespread across northern and western Victoria (RBGV 2025).	VBA	2	24/04/2003	No suitable habitat. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Hairy Tails	<i>Ptilotus erubescens</i>		Critically Endangered	Grows in grassland, grassy woodland and heathy habitat. Favours heavy soils (north and west of Melbourne) and sandy soils (far western Victoria). Mostly distributed in the west of the state, though an isolated occurrence exists in the far east at Wingan Inlet. Flowers October to February (RBGV 2023).	VBA	24	14/12/2004	Suitable habitat in EVCs 132_61 and 55. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Bentham's Bush-pea	<i>Pultenaea benthamii</i>		Vulnerable	Found in moist forests, typically on mountain slopes, predominantly within the Grampians. It also has isolated populations in eastern areas, such as near Mount Kaye and the Howe Range (VicFlora 2025).	VBA	3	29/09/1991	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Rosy Bush-pea	<i>Pultenaea subalpina</i>		Endangered	This species is found only in Victoria, specifically within the Mt William Range and the northern Serra Range of the Grampians region. Its habitat is largely limited to the rocky upper slopes of Mt William, as well as the heathlands of the Major Mitchell Plateau and Mt Rosea (VicFlora 2025). It thrives in subalpine heath environments, where snow or ice may occasionally be present, and typically grows in shallow, skeletal soils (Reiter et al. 2004)	VBA	1	01/01/1770	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.

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Lacey River Buttercup	<i>Ranunculus amplus</i>		Critically Endangered	Found on the margins of swamps, sometimes semi-submerged. Scattered across southern Victoria, though most prevalent around the Grampians and Portland areas. Flowers October to November (RBGV 2023).	VBA	1	23/02/1969	No suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Brackish Plains Buttercup	<i>Ranunculus diminutus</i>		Endangered	Occurs on seasonally wet clays around waterbodies. Known from Lakes Omeo Corangamite, Goldsmith and Kennedy. Flowers September to February (RBGV 2023).	VBA	2	10/10/2006	Suitable habitat occurs along Mustons Creek and Drysdale Creek, and in EVCs 125, 641 and 654. Potential to occur.	Project study area.
Button Wrinklewort	<i>Rutidosis leptorhynchoides</i>	Endangered	Endangered	Grows on fertile clays and clay loams in grassland and grassy woodland habitat, and sometimes low rises (<100m above sea level) with stony soils. The species typically requires adequate inter-tussock spaces, resulting from disturbance. Distribution ranges from Melbourne's western suburbs to Bannockburn, Rokewood, Wickliffe and between Beaufort and Ararat. Flowers October to February (NSW Office of Environment and Heritage, 2012).	PMST & VBA	1	13/11/2019	Native grassland within the study area with high biomass and generally lacking open space required by this species. Study area on edge of known distribution. Unlikely to occur.	All.
Smooth Fireweed	<i>Senecio glabrescens</i>		Critically Endangered	In Victoria, this species has been collected from the Grampians and Skipton from the margins of watercourses and lakes (RBGV 2025).	VBA	1	9/02/2003	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Annual Fireweed	<i>Senecio glomeratus</i> subsp. <i>longifructus</i>		Vulnerable	Widespread across Victoria (excluding the northwest of the state) where it grows on fertile and disturbed substrates in a variety of communities associated with seasonally wet areas such as open wetlands, swamps and riparian communities adjacent to streams. This taxon is tolerant of brackish or sub-saline conditions as it can occur in upper saltmarsh communities. Flowers late-spring to autumn (DEECA 2023; RGV 2023)	VBA	1	1/02/2021	No suitable habitat was recorded in the study area. Unlikely to occur.	Swept paths - The three intersections in Hamilton.
Large-headed Fireweed	<i>Senecio macrocarpus</i>	Vulnerable	Critically Endangered	Occurs most commonly west of Melbourne in remnant <i>Themeda</i> grasslands on clay or clay-loam soils derived from Basalt but can also occur in sedgelands, grassy woodlands and open woodlands across the Victorian Volcanic Plain. Flowers August to October (DEECA 2023; RGV 2023).	PMST	No VBA records	N/A	Study area outside of known distribution. Unlikely to occur.	All.
Swamp Fireweed	<i>Senecio psilocarpus</i>	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).	PMST	No VBA records	N/A	No suitable habitat. Unlikely to occur.	All.
Grampians Globe-pea	<i>Sphaerolobium acanthos</i>	Critically Endangered	Critically Endangered	Confined to the Grampians where apparently rare, recorded only from the Halls Gap-Mt William area and the Victoria Valley. Found in sclerophyll forest, woodland and heathland, usually near streams (Jeanes 1996).	PMST	No VBA records	N/A	Species highly localised in the north of the Grampians, with no other records outside the national park. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Grampians Triggerplant	<i>Stylium soboliferum</i>		Endangered	Endemic to Victoria where it is confined to the Grampians, occurring in seasonally damp sandy ground (track and stream margins etc.), broken rocky slopes, and mossy ledges of sandstone cliffs (RBGV 2025).	VBA	13	4/04/2012	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Slender Darling-pea	<i>Swainsona murrayana</i>	Vulnerable	Endangered	The Slender Darling-pea often grows in heavy soils, especially depressions, and is also found on grey and red to brown clay and clay-loam soils in <i>Atriplex vesicaria</i> (Bladder Saltbush) herland, <i>Eucalyptus largiflorens</i> (Black Box) woodland and grassland communities and is frequently associated with Maireana species. In Victoria, the species is found in seasonally inundated flats around lakes (DCCEW 2023).	PMST	No VBA records	N/A	Study area outside of known distribution. Unlikely to occur.	All.

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Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Azure Sun-orchid	<i>Thelymitra azurea</i>		Endangered	In Victoria, occurs in the far west of the state in mallee scrublands, heathy woodlands and heathland on deep sand, sandy loam or peaty soils around swamp margins (RBGV 2025).	VBA	1	1/10/1933	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Blotched Sun-orchid	<i>Thelymitra benthamiana</i>		Endangered	Found mostly in heathland, heathy woodlands and open forests on well-drained sand and clay loams (Weber & Entwistle 1994).	VBA	1	4/09/1973	Local records are restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Metallic Sun-orchid	<i>Thelymitra epipactoides</i>	Endangered	Endangered	Primarily found in coastal areas, growing on dry sand loams or loamy sands in heathland, grassland and woodland habitat. The species is also found further inland in comparable habitat (Backhouse & Jeanes 1995). Distribution ranges as far west as the SA border, north to the Nhill-Dimboola area and as far east as the Bairnsdale area. Flowers September to November, during sunny periods (RBGV 2023).	PMST	No VBA records	N/A	Suitable (but sub-optimal) habitat in EVCs 132_61 and 55. No records within 10 km. Unlikely to occur.	All.
Basalt Sun-orchid	<i>Thelymitra gregaria</i>		Critically Endangered	Grows on red-brown basaltic loams in grassland habitat. Primarily distributed in the west of the state. Flowers September to November, during sunny periods (RBGV 2023).	VBA	14	31/10/2019	Suitable habitat in EVC 132_61. Not recorded during targeted surveys. Potential to occur in unsurveyed areas.	All.
Spiral Sun-orchid	<i>Thelymitra matthewsii</i>	Vulnerable	Endangered	A rare species known from coastal to slightly elevated areas (to 400m), where it occurs on well-drained soils of sandy flats and open forest. The species often colonises disturbed sites, but may be out-competed as the site regenerates. Distributed around the Grampians, Anglesea, near Woodside and the Mallacoota area. Flowers August to October, during sunny periods (RBGV 2023).	PMST & VBA	3	29/08/1998	No suitable habitat. Unlikely to occur.	All.
Slender Plum-orchid	<i>Thelymitra orientalis</i>	Critically Endangered	Critically Endangered	Occurs in heath and heathy woodland, usually in damp/seepage areas along watercourses and around swamp margins, on either in peaty white sands or heavy black often peaty soils (DEECA 2023; RGV 2023).	PMST	No VBA records	N/A	The study area does not support heath or heathy woodland and is outside the known distribution of the species. Unlikely to occur.	All.
Prickly Arrowgrass	<i>Triglochin mucronata</i>		Endangered	Found in the herbfields of salt flats and coastal saltmarsh habitat. Distributed along the coast and inland western Victoria. Flowers September to November (RBGV 2023).	VBA	1	01/11/1853	The study area lacks suitable saline habitat and there is a lack of recent nearby records. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.
Mallee Annual-bluebell	<i>Wahlenbergia tumidifructa</i>		Endangered	In Victoria, occurs in the west and north of the state in sandy flats and shallow depressions of the Big Desert and Hattah-Kulkyne area, and on black soils of the floodplain of the Murray River between Barmah and Strathmerton (RBGV 2025).	VBA	3	16/11/1976	The study area lacks suitable habitat and there is a lack of recent nearby records. Unlikely to occur.	Swept path - Henty Highway, Hamilton.
Violet Westringia	<i>Westringia glabra</i>		Endangered	Grows on skeletal soils, often on steep rocky slopes and often associated with river gorges or sheltered forest (Costermans 2017, p. 268). Disjunct distribution occurring in far East Gippsland, Lerderderg Gorge and the Grampians. Flowers all year (RBGV 2023).	VBA	1	5/04/2011	The local record is restricted to the Grampians National Park and no suitable habitat was recorded in the study area. Unlikely to occur.	Swept path - Dunkeld-Cavendish Road, Dunkeld.

Notes: grey shading = species likely or with potential to occur in study area; EPBC = status under EPBC Act; FFG = status under FFG Act.

Common Name	Scientific name	EPBC	FFG	Habitat	Source	Number of VBA records	Date of last record	Likelihood of occurrence	Project component
Swamp Everlasting	<i>Xerochrysum palustre</i>	Vulnerable	Critically Endangered	Often growing on heavy black clay soils in wetlands including sedge-swamps, shallow freshwater marshes and seasonally wet areas within native grasslands and heaths. Commonly associated genera include <i>Amphibromus</i> , <i>Baumea</i> , <i>Carex</i> , <i>Chorizandra</i> , <i>Craspedia</i> , <i>Eleocharis</i> , <i>Isolepis</i> , <i>Lachnagrostis</i> , <i>Lepidosperma</i> , <i>Myriophyllum</i> , <i>Phragmites australis</i> , <i>Themea triandra</i> and <i>Villarsia</i> . May occur in the threatened ecological communities SHWTL, NTGV and Gippsland Red Gum Grassy Woodland and Associated Native Grassland (DAWE 2021). Distributed in lowland swamps in Victoria from near the South Australian border to near Bairnsdale. Also an isolated occurrence near Cobberas. Flowers November to March (RBGV 2023).	PMST & VBA	143	22/02/2023	Suitable (but sub-optimal) habitat along watercourses. Unlikely to occur.	All.

Notes: grey shading = species likely or with potential to occur in study area; EPBC = status under EPBC Act; FFG = status under FFG Act.

Appendix 6: Native Vegetation Removal (NVR) reports (a. Geelong route, b. Portland route (LGAs split across two NVRs), c. Combined routes).

Native Vegetation Removal Report

NVRR ID: 354_20251201_H5E

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 Guidelines). This report is **not an assessment by DEECA** 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.

Report details

Date created: 01/12/2025

Local Government Area: MOYNE SHIRE

Shapefile name:

18088_28_29_NVR_Patch_Geelong_SweptPath_PublicRoad_DevelopmentPlan_251201.shp

18088_28_29_NVR_Tree_Geelong_SweptPath_PublicRoad_DevelopmentPlan_251201.shp

Site assessor name:

Cody Hajnal

DEECA

Registered Aboriginal Party: Eastern Maar

Coordinates: 142.63997, -38.10449

Address:

HEXHAM-BALLANGEICH ROAD ELLERSLIE 3265

HAMILTON HIGHWAY HEXHAM 3273

289 IMMIGRANTS LANE ELLERSLIE 3265

1101 WOOLSTHORPE-HEXHAM ROAD HEXHAM 3273

1133 WOOLSTHORPE-HEXHAM ROAD HEXHAM 3273

IMMIGRANTS LANE ELLERSLIE 3265

289 FOUR MILE ROAD CARAMUT 3274

4014 WARRNAMBOOL-CARAMUT ROAD MINJAH 3276

300 WOOLSTHORPE-HEXHAM ROAD WOOLSTHORPE 3276

320 FOUR MILE ROAD CARAMUT 3274

(9 additional addresses not listed)

Regulator Notes

Removal polygons are located:

- Within a DEECA Mapped Wetland area
- On Crown Land



Summary of native vegetation to be removed

Assessment pathway	Detailed Assessment Pathway		
Location category	Location 3 Within this area, the removal of less than 0.5 hectares of native vegetation could have a significant impact on the habitat of one or more rare or threatened species. In such cases, a Species Offset will be required.		
Total extent including past and proposed removal (ha) <i>Includes endangered EVCs (ha): 8.238</i>	8.238	<i>Extent of past removal (ha)</i>	0
		<i>Extent of proposed removal - Patches (ha)</i>	7.895
		<i>Extent of proposed removal - Scattered Trees (ha)</i>	0.343
No. Large Trees proposed to be removed	8	<i>No. Large Patch Trees</i>	4
		<i>No. Large Scattered Trees</i>	4
No. Small Scattered Trees	2		

Offset requirements if approval is granted

Any approval granted will include a condition to obtain an offset, before the removal of native vegetation, that meets the following requirements:

General Offset amount ¹	2.8860 General Habitat Units
Vicinity	Glenelg Hopkins CMA or MOYNE SHIRE LGA
Minimum strategic biodiversity value score ²	0.3494
Large Trees*	8
*The total number of Large Trees that the offset must protect	8 Large Trees to be protected in either the General, Species or combination across all habitat units protected

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 with mapped habitat at the site

Appendix 3 includes the following figures

- Location map
- Strategic Biodiversity Value map
- Condition map
- Endangered EVCs map
- Aerial photograph showing mapped native vegetation
- Property in context
- Habitat Importance maps

1. The General Offset amount required is the sum of all General Habitat Units in Appendix 1.

2. Minimum strategic biodiversity value score is 80 per cent of the weighted average score across habitat zones where a General Offset is required.

3. The Species Offset amount(s) required is the sum of all Species Habitat Units in Appendix 1.



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 approval from the responsible authority. The responsible authority will refer your application to DEECA for assessment, as required. **This report is not a referral assessment by DEECA.**

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

Refer to 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 as applicable.
- A defendable space statement as applicable.
- A statement about the Native Vegetation Precinct Plan (NVPP) 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.



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 meets or exceeds the Species Offset threshold, a Species Offset is required. This test is completed for all species with mapped habitat 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 are calculated by the following equation in accordance with the Guidelines: ***Species Habitat Units = extent without overlap x condition score 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 are calculated by the following equation in accordance with the Guidelines: ***General Habitat Units = extent without overlap x condition score 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							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
0-BW	Patch	-	VVP_0068	Endangered	no	0.180	-	0.004	0.004	0.320	-	0.001	General
0-BX	Patch	-	VVP_0068	Endangered	no	0.180	-	0.017	0.017	0.320	-	0.003	General
0-BY	Patch	-	VVP_0068	Endangered	no	0.210	-	0.026	0.026	0.300	-	0.005	General
0-CN	Patch	-	VVP_0055_61	Endangered	no	0.240	2	0.089	0.089	0.390	-	0.022	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
0-CNa	Patch	-	VVP_0055_61	Endangered	no	0.240	2	0.086	0.086	0.390	-	0.022	General
0-CO	Patch	-	VVP_0125	Endangered	no	0.390	-	0.010	0.010	0.460	-	0.004	General
0-DF	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.025	0.025	0.825	-	0.004	General
0-DFa	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.012	0.012	0.424	-	0.002	General
0-DH	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.053	0.053	0.830	-	0.021	General
0-DV	Patch	-	VVP_0055_61	Endangered	no	0.280	-	0.030	0.030	0.630	-	0.010	General
0-DVa	Patch	-	VVP_0055_61	Endangered	no	0.280	-	0.083	0.083	0.410	-	0.024	General
0-DVb	Patch	-	VVP_0055_61	Endangered	no	0.280	-	0.015	0.015	0.410	-	0.004	General
0-DVc	Patch	-	VVP_0055_61	Endangered	no	0.280	-	0.000	0.000	0.410	-	0.000	General
0-DW	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.002	0.002	0.670	-	0.001	General
0-DWa	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.003	0.003	0.670	-	0.001	General
0-DWb	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.004	0.004	0.681	-	0.001	General
0-DWc	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.009	0.009	0.800	-	0.004	General
0-DWd	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.001	0.001	0.800	-	0.000	General
0-DWe	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.000	0.000	0.800	-	0.000	General
0-DX	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.000	0.000	0.800	-	0.000	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
0-DXa	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.001	0.001	0.800	-	0.000	General
0-DXb	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.001	0.001	0.800	-	0.000	General
0-DXc	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.000	0.000	0.800	-	0.000	General
0-DZ	Patch	-	VVP_0068	Endangered	no	0.140	-	0.005	0.005	0.800	-	0.001	General
0-DZa	Patch	-	VVP_0068	Endangered	no	0.140	-	0.000	0.000	0.800	-	0.000	General
0-EA	Patch	-	VVP_0132_61	Endangered	no	0.310	-	0.005	0.005	0.800	-	0.002	General
0-EAa	Patch	-	VVP_0132_61	Endangered	no	0.310	-	0.048	0.048	0.507	-	0.017	General
0-EAb	Patch	-	VVP_0132_61	Endangered	no	0.310	-	0.004	0.004	0.390	-	0.001	General
0-EY	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.002	0.002	0.400	-	0.000	General
0-EZ	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.037	0.037	0.340	-	0.005	General
0-FI	Patch	-	VVP_0125	Endangered	no	0.240	-	0.003	0.003	0.290	-	0.001	General
0-HA	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.079	0.079	0.340	-	0.009	General
0-HB	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.037	0.037	0.320	-	0.004	General
0-HD	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.000	0.000	0.290	-	0.000	General
0-XAH	Patch	-	VVP_0125	Endangered	no	0.380	-	1.087	1.087	0.417	-	0.439	General
0-XAHa	Patch	-	VVP_0125	Endangered	no	0.380	-	2.721	2.721	0.418	-	1.100	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
0-XAJ	Patch	-	VVP_0125	Endangered	no	0.350	-	0.008	0.008	0.340	-	0.003	General
0-XAT	Patch	-	VVP_0653	Endangered	no	0.440	-	0.023	0.023	0.450	-	0.011	General
0-XAX	Patch	-	VVP_0653	Endangered	no	0.500	-	0.006	0.006	0.440	-	0.004	General
0-XAY	Patch	-	VVP_0653	Endangered	no	0.500	-	0.008	0.008	0.440	-	0.004	General
0-XBA	Patch	-	VVP_0125	Endangered	no	0.380	-	0.016	0.016	0.310	-	0.006	General
0-XBAa	Patch	-	VVP_0125	Endangered	no	0.380	-	0.011	0.011	0.313	-	0.004	General
0-XBE	Patch	-	VVP_0125	Endangered	no	0.380	-	0.004	0.004	0.310	-	0.001	General
0-XBEa	Patch	-	VVP_0125	Endangered	no	0.380	-	0.031	0.031	0.310	-	0.012	General
0-XBEb	Patch	-	VVP_0125	Endangered	no	0.380	-	0.002	0.002	0.390	-	0.001	General
0-XBF	Patch	-	VVP_0125	Endangered	no	0.200	-	0.004	0.004	0.340	-	0.001	General
0-XBG	Patch	-	VVP_0125	Endangered	no	0.150	-	0.141	0.141	0.345	-	0.021	General
0-XBH	Patch	-	VVP_0125	Endangered	no	0.180	-	0.011	0.011	0.350	-	0.002	General
0-XDE	Patch	-	VVP_0647	Endangered	no	0.400	-	0.016	0.016	0.440	-	0.007	General
0-XDK	Patch	-	VVP_0125	Endangered	no	0.320	-	0.004	0.004	0.440	-	0.002	General
0-XDL	Patch	-	VVP_0125	Endangered	no	0.430	-	0.234	0.234	0.440	-	0.109	General
1-AD	Patch	-	VVP_0125	Endangered	no	0.390	-	0.040	0.040	0.460	-	0.017	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
1-AG	Patch	-	VVP_0055_61	Endangered	no	0.150	-	0.028	0.028	0.411	-	0.004	General
1-AK	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.008	0.008	0.360	-	0.001	General
1-AM	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.001	0.001	0.360	-	0.000	General
1-AN	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.004	0.004	0.360	-	0.001	General
1-AO	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.011	0.011	0.360	-	0.001	General
1-AP	Patch	-	VVP_0055_61	Endangered	no	0.040	-	0.000	0.000	0.280	-	0.000	General
1-AQ	Patch	-	VVP_0055_61	Endangered	no	0.040	-	0.000	0.000	0.280	-	0.000	General
1-W	Patch	-	VVP_0132_61	Endangered	no	0.130	-	0.025	0.025	0.790	-	0.004	General
2-C	Patch	-	VVP_0055_61	Endangered	no	0.100	-	0.003	0.003	0.370	-	0.000	General
28224-Wetland	Patch	-	VVP_0125	Endangered	no	0.200	-	0.142	0.142	0.350	-	0.029	General
28224-WetlandA	Patch	-	VVP_0125	Endangered	no	0.200	-	0.161	0.161	0.336	-	0.032	General
28227-Wetland	Patch	-	VVP_0125	Endangered	no	0.200	-	0.139	0.139	0.300	-	0.027	General
3-AA	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.009	0.009	0.350	-	0.002	General
3-AF	Patch	-	VVP_0125	Endangered	no	0.230	-	0.044	0.044	0.300	-	0.010	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
3-AH	Patch	-	VVP_0125	Endangered	no	0.300	-	0.669	0.669	0.508	-	0.227	General
3-AHa	Patch	-	VVP_0125	Endangered	no	0.300	-	0.245	0.245	0.539	-	0.085	General
3-AHb	Patch	-	VVP_0125	Endangered	no	0.300	-	0.176	0.176	0.490	-	0.059	General
3-AHc	Patch	-	VVP_0125	Endangered	no	0.300	-	0.079	0.079	0.490	-	0.027	General
3-AI	Patch	-	VVP_0125	Endangered	no	0.230	-	0.027	0.027	0.290	-	0.006	General
3-AJ	Patch	-	VVP_0125	Endangered	no	0.230	-	0.069	0.069	0.280	-	0.015	General
3-AK	Patch	-	VVP_0132_61	Endangered	no	0.230	-	0.104	0.104	0.281	-	0.023	General
3-BN	Patch	-	VVP_0055_61	Endangered	no	0.150	-	0.015	0.015	0.436	-	0.002	General
3-BO	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.002	0.002	0.390	-	0.001	General
3-BOa	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.157	0.157	0.645	-	0.103	General
3-BOb	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.940	-	0.000	General
3-BOc	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.940	-	0.000	General
3-BOd	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.001	0.001	0.940	-	0.000	General
3-BOe	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.001	0.001	0.940	-	0.001	General
3-BOf	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.940	-	0.000	General
3-BOg	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.003	0.003	0.571	-	0.002	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
3-BOh	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.460	-	0.000	General
3-BOi	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.195	0.195	0.520	-	0.118	General
3-BP	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.470	-	0.000	General
3-BT	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.006	0.006	0.460	-	0.001	General
3-BTa	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.002	0.002	0.460	-	0.000	General
3-BTb	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.002	0.002	0.460	-	0.000	General
3-BTc	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.003	0.003	0.460	-	0.000	General
3-BTd	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.000	0.000	0.460	-	0.000	General
3-BU	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.002	0.002	0.940	-	0.000	General
3-BUa	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.000	0.000	0.940	-	0.000	General
3-BV	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.001	0.001	0.920	-	0.000	General
3-BVa	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.000	0.000	0.460	-	0.000	General
3-BW	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.000	0.000	0.920	-	0.000	General
3-BY	Patch	-	VVP_0055_61	Endangered	no	0.190	-	0.000	0.000	0.270	-	0.000	General
3-BZ	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.470	-	0.000	General
3-BZa	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.007	0.007	0.463	-	0.004	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
3-BZb	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.460	-	0.000	General
3-BZc	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.460	-	0.000	General
3-BZd	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.460	-	0.000	General
3-BZe	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.004	0.004	0.460	-	0.002	General
3-BZf	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.001	0.001	0.460	-	0.001	General
3-BZg	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.001	0.001	0.460	-	0.000	General
3-BZh	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.009	0.009	0.460	-	0.005	General
3-BZi	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.460	-	0.000	General
3-BZj	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.460	-	0.000	General
3-BZk	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000	0.460	-	0.000	General
3-CA	Patch	-	VVP_0132_61	Endangered	no	0.130	-	0.001	0.001	0.460	-	0.000	General
3-CB	Patch	-	VVP_0132_61	Endangered	no	0.130	-	0.000	0.000	0.470	-	0.000	General
3-D	Patch	-	VVP_0055_61	Endangered	no	0.170	-	0.006	0.006	0.410	-	0.001	General
3-DC	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.034	0.034	0.421	-	0.005	General
3-DD	Patch	-	VVP_0055_61	Endangered	no	0.150	-	0.001	0.001	0.520	-	0.000	General
3-DE	Patch	-	VVP_0132_61	Endangered	no	0.150	-	0.003	0.003	0.310	-	0.000	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
3-DF	Patch	-	VVP_0055_61	Endangered	no	0.190	-	0.006	0.006	0.280	-	0.001	General
3-G	Patch	-	VVP_0055_61	Endangered	no	0.280	-	0.005	0.005	0.340	-	0.001	General
3-I	Patch	-	VVP_0055_61	Endangered	no	0.200	-	0.002	0.002	0.420	-	0.000	General
3-1a	Patch	-	VVP_0055_61	Endangered	no	0.200	-	0.076	0.076	0.420	-	0.016	General
3-L	Patch	-	VVP_0055_61	Endangered	no	0.110	-	0.006	0.006	0.350	-	0.001	General
3-M	Patch	-	VVP_0055_61	Endangered	no	0.150	-	0.011	0.011	0.590	-	0.002	General
3-R	Patch	-	VVP_0132_61	Endangered	no	0.110	-	0.047	0.047	0.790	-	0.007	General
4-Aa	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.016	0.016	0.315	-	0.002	General
5-D	Patch	-	VVP_0132_61	Endangered	no	0.260	-	0.000	0.000	0.430	-	0.000	General
5-E	Patch	-	VVP_0055_61	Endangered	no	0.150	-	0.000	0.000	0.410	-	0.000	General
5-F	Patch	-	VVP_0132_61	Endangered	no	0.320	-	0.002	0.002	0.340	-	0.000	General
5-Fa	Patch	-	VVP_0132_61	Endangered	no	0.320	-	0.061	0.061	0.340	-	0.020	General
5-Fb	Patch	-	VVP_0132_61	Endangered	no	0.320	-	0.005	0.005	0.310	-	0.002	General
5-Fc	Patch	-	VVP_0132_61	Endangered	no	0.320	-	0.010	0.010	0.310	-	0.003	General
5-G	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.030	0.030	0.520	-	0.004	General
5-H	Patch	-	VVP_0055_61	Endangered	no	0.180	-	0.016	0.016	0.401	-	0.003	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
5-Ha	Patch	-	VVP_0055_61	Endangered	no	0.180	-	0.013	0.013	0.520	-	0.003	General
5-I	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.004	0.004	0.420	-	0.001	General
5-1a	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.006	0.006	0.420	-	0.001	General
5-1b	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.002	0.002	0.420	-	0.000	General
5-1c	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.010	0.010	0.420	-	0.002	General
5-1d	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.000	0.000	0.371	-	0.000	General
5-1e	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.001	0.001	0.370	-	0.000	General
5-1f	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.000	0.000	0.370	-	0.000	General
5-1g	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.000	0.000	0.370	-	0.000	General
5-1h	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.003	0.003	0.370	-	0.001	General
5-J	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.004	0.004	0.430	-	0.001	General
5-Ja	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.001	0.001	0.430	-	0.000	General
5-Jb	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.001	0.001	0.430	-	0.000	General
5-Jc	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.000	0.000	0.450	-	0.000	General
5-Jd	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.000	0.000	0.450	-	0.000	General
5-Je	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.008	0.008	0.410	-	0.002	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
5-Jf	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.000	0.000	0.410	-	0.000	General
5-Jg	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.018	0.018	0.410	-	0.004	General
5-Jh	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.000	0.000	0.420	-	0.000	General
5-Ji	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.001	0.001	0.420	-	0.000	General
5-Jj	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.000	0.000	0.420	-	0.000	General
5-K	Patch	-	VVP_0132_61	Endangered	no	0.280	-	0.029	0.029	0.838	-	0.011	General
5-Ka	Patch	-	VVP_0132_61	Endangered	no	0.280	-	0.010	0.010	0.748	-	0.004	General
5-L	Patch	-	VVP_0132_61	Endangered	no	0.500	-	0.000	0.000	0.850	-	0.000	General
5-La	Patch	-	VVP_0132_61	Endangered	no	0.500	-	0.004	0.004	0.850	-	0.002	General
5-Lb	Patch	-	VVP_0132_61	Endangered	no	0.500	-	0.003	0.003	0.460	-	0.002	General
5-Lc	Patch	-	VVP_0132_61	Endangered	no	0.500	-	0.008	0.008	0.454	-	0.004	General
5-Ld	Patch	-	VVP_0132_61	Endangered	no	0.500	-	0.000	0.000	0.450	-	0.000	General
5-O	Patch	-	VVP_0055_61	Endangered	no	0.080	-	0.010	0.010	0.460	-	0.001	General
5-P	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.000	0.000	0.470	-	0.000	General
5-U	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.000	0.000	0.850	-	0.000	General
5-Ua	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.000	0.000	0.850	-	0.000	General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
5-Ub	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.006	0.006	0.850	-	0.000	General
5-Uc	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.002	0.002	0.460	-	0.000	General
5-Ud	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.000	0.000	0.460	-	0.000	General
25-ST	Scattered Tree	41	VVP_0055_61	Endangered	no	0.200	-	0.031	0.031	0.310	-	0.006	General
29-ST	Scattered Tree	23	VVP_0055_61	Endangered	no	0.200	-	0.031	0.030	0.440	-	0.007	General
52-ST	Scattered Tree	103	VVP_0055_61	Endangered	no	0.200	1	0.070	0.070	0.400	-	0.015	General
53-ST	Scattered Tree	82	VVP_0055_61	Endangered	no	0.200	1	0.070	0.070	0.400	-	0.015	General
54-ST	Scattered Tree	143	VVP_0055_61	Endangered	no	0.200	1	0.070	0.070	0.430	-	0.015	General
61-ST	Scattered Tree	148	VVP_0055_61	Endangered	no	0.200	1	0.070	0.070	0.450	-	0.015	General



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

This table identifies all rare or threatened species with mapped habitat at the site and the proportional impact associated with the proposed native vegetation removal.

Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Curly Sedge	<i>Carex tasmanica</i>	500650	Vulnerable	Dispersed	Habitat importance map	0.0005
Wind-blown Tussock-grass	<i>Poa physoclinia</i>	507791	Endangered	Dispersed	Top ranking map	0.0004
Fragrant Leek-orchid	<i>Prasophyllum suaveolens</i>	504567	Endangered	Dispersed	Top ranking map	0.0003
Yarra Pygmy Perch	<i>Nannoperca obscura</i>	4882	Vulnerable	Dispersed	Habitat importance map	0.0002
Salt Blown-grass	<i>Lachnagrostis robusta</i>	504223	Rare	Dispersed	Habitat importance map	0.0002
Curly Sedge	<i>Carex tasmanica</i>	500650	Vulnerable	Dispersed	Top ranking map	0.0001
Snowy Mint-bush	<i>Prostanthera nivea</i> var. <i>nivea</i>	502746	Rare	Dispersed	Habitat importance map	0.0001
Button Wrinklewort	<i>Rutidosis leptorhynchoides</i>	502982	Endangered	Dispersed	Habitat importance map	0.0001
Large-headed Fireweed	<i>Senecio macrocarpus</i>	503116	Endangered	Dispersed	Habitat importance map	0.0001
Plump Swamp Wallaby-grass	<i>Amphibromus pithogastrus</i>	503624	Endangered	Dispersed	Habitat importance map	0.0001
Wavy Swamp Wallaby-grass	<i>Amphibromus sinuatus</i>	503625	Vulnerable	Dispersed	Habitat importance map	0.0001
Purple Blown-grass	<i>Lachnagrostis punicea</i> subsp. <i>punicea</i>	504206	Rare	Dispersed	Habitat importance map	0.0001
Purple Blown-grass	<i>Lachnagrostis punicea</i> subsp. <i>filifolia</i>	504222	Rare	Dispersed	Habitat importance map	0.0001
Brackish Plains Buttercup	<i>Ranunculus diminutus</i>	504314	Rare	Dispersed	Habitat importance map	0.0001
Fragrant Leek-orchid	<i>Prasophyllum suaveolens</i>	504567	Endangered	Dispersed	Habitat importance map	0.0001



Species common name	Species scientific name	TAXON ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
White Sunray	<i>Leucochrysum albicans</i> subsp. <i>tricolor</i>	504581	Endangered	Dispersed	Habitat importance map	0.0001
Pale Swamp Everlasting	<i>Coronidium gunnianum</i>	504655	Vulnerable	Dispersed	Habitat importance map	0.0001
Plains Yam-daisy	<i>Microseris scapigera</i> s.s.	504657	Vulnerable	Dispersed	Habitat importance map	0.0001
Clumping Golden Moths	<i>Diuris gregaria</i>	504887	Endangered	Dispersed	Habitat importance map	0.0001
Matted Flax-lily	<i>Dianella amoena</i>	505084	Endangered	Dispersed	Habitat importance map	0.0001
Swamp Flax-lily	<i>Dianella callicarpa</i>	505086	Rare	Dispersed	Habitat importance map	0.0001
Pale-flower Crane's-bill	<i>Geranium</i> sp. 3	505344	Rare	Dispersed	Habitat importance map	0.0001
Wind-blown Tussock-grass	<i>Poa physoclinia</i>	507791	Endangered	Dispersed	Habitat importance map	0.0001
Lewin's Rail	<i>Lewinia pectoralis</i> <i>pectoralis</i>	10045	Vulnerable	Dispersed	Habitat importance map	0.0000
Gull-billed Tern	<i>Gelochelidon nilotica</i> <i>macrotarsa</i>	10111	Endangered	Dispersed	Habitat importance map	0.0000
Australian Painted Snipe	<i>Rostratula australis</i>	10170	Critically endangered	Dispersed	Habitat importance map	0.0000
Brolga	<i>Grus rubicunda</i>	10177	Vulnerable	Dispersed	Habitat importance map	0.0000
Little Egret	<i>Egretta garzetta</i> <i>nigripes</i>	10185	Endangered	Dispersed	Habitat importance map	0.0000
Intermediate Egret	<i>Ardea intermedia</i>	10186	Endangered	Dispersed	Habitat importance map	0.0000
Eastern Great Egret	<i>Ardea modesta</i>	10187	Vulnerable	Dispersed	Habitat importance map	0.0000
Australian Little Bittern	<i>Ixobrychus dubius</i>	10195	Endangered	Dispersed	Habitat importance map	0.0000
Australasian Bittern	<i>Botaurus poiciloptilus</i>	10197	Endangered	Dispersed	Habitat importance map	0.0000
Australasian Shoveler	<i>Anas rhynchos</i>	10212	Vulnerable	Dispersed	Habitat importance map	0.0000



Species common name	Species scientific name	TAXON ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Freckled Duck	<i>Stictonetta naevosa</i>	10214	Endangered	Dispersed	Habitat importance map	0.0000
Hardhead	<i>Aythya australis</i>	10215	Vulnerable	Dispersed	Habitat importance map	0.0000
Blue-billed Duck	<i>Oxyura australis</i>	10216	Endangered	Dispersed	Habitat importance map	0.0000
Musk Duck	<i>Biziura lobata</i>	10217	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey Goshawk	<i>Accipiter novaehollandiae novaehollandiae</i>	10220	Vulnerable	Dispersed	Habitat importance map	0.0000
Black Falcon	<i>Falco subniger</i>	10238	Vulnerable	Dispersed	Habitat importance map	0.0000
Elegant Parrot	<i>Neophema elegans</i>	10307	Vulnerable	Dispersed	Habitat importance map	0.0000
Striped Legless Lizard	<i>Delma impar</i>	12159	Endangered	Dispersed	Habitat importance map	0.0000
Glossy Grass Skink	<i>Pseudemoia rawlinsoni</i>	12683	Vulnerable	Dispersed	Habitat importance map	0.0000
Grassland Earless Dragon	<i>Tympanocryptis pinguicolla</i>	12922	Critically endangered	Dispersed	Habitat importance map	0.0000
Tussock Skink	<i>Pseudemoia pagenstecheri</i>	12993	Vulnerable	Dispersed	Habitat importance map	0.0000
Growling Grass Frog	<i>Litoria raniformis</i>	13207	Endangered	Dispersed	Habitat importance map	0.0000
Golden Sun Moth	<i>Synemon plana</i>	15021	Critically endangered	Dispersed	Habitat importance map	0.0000
Large White Spider-orchid	<i>Caladenia venusta</i>	500533	Rare	Dispersed	Habitat importance map	0.0000
Leafy Twig-sedge	<i>Cladium procerum</i>	500786	Rare	Dispersed	Habitat importance map	0.0000
Small Milkwort	<i>Comesperma polygaloides</i>	500798	Vulnerable	Dispersed	Habitat importance map	0.0000
Golden Cowslips	<i>Diuris behrii</i>	501061	Vulnerable	Dispersed	Habitat importance map	0.0000



Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Purple Diuris	<i>Diuris punctata</i>	501084	Vulnerable	Dispersed	Habitat importance map	0.0000
Common Pipewort	<i>Eriocaulon scariosum</i>	501218	Rare	Dispersed	Habitat importance map	0.0000
Bog Gum	<i>Eucalyptus kitsoniana</i>	501290	Rare	Dispersed	Habitat importance map	0.0000
Yarra Gum	<i>Eucalyptus yarraensis</i>	501326	Rare	Dispersed	Habitat importance map	0.0000
Clover Glycine	<i>Glycine latrobeana</i>	501456	Vulnerable	Dispersed	Habitat importance map	0.0000
Creeping Rush	<i>Juncus revolutus</i>	501839	Rare	Dispersed	Habitat importance map	0.0000
Salt Lawrenzia	<i>Lawrenzia spicata</i>	501888	Rare	Dispersed	Habitat importance map	0.0000
Button Immortelle	<i>Leptorhynchos waitzia</i>	501949	Vulnerable	Dispersed	Habitat importance map	0.0000
Salt Paperbark	<i>Melaleuca halmaturorum</i>	502149	Vulnerable	Dispersed	Habitat importance map	0.0000
Forked Rice-flower	<i>Pimelea hewardiana</i>	502522	Rare	Dispersed	Habitat importance map	0.0000
Showy Lobelia	<i>Lobelia beaugleholei</i>	502733	Rare	Dispersed	Habitat importance map	0.0000
Small Scurf-pea	<i>Cullen parvum</i>	502773	Endangered	Dispersed	Habitat importance map	0.0000
Tough Scurf-pea	<i>Cullen tenax</i>	502776	Endangered	Dispersed	Habitat importance map	0.0000
Hairy Tails	<i>Ptilotus erubescens</i>	502825	Vulnerable	Dispersed	Habitat importance map	0.0000
Branching Groundsel	<i>Senecio cunninghamii</i> var. <i>cunninghamii</i>	503104	Rare	Dispersed	Habitat importance map	0.0000
Blotched Sun-orchid	<i>Thelymitra benthamiana</i>	503369	Vulnerable	Dispersed	Habitat importance map	0.0000
Dwarf Brooklime	<i>Gratiola pumilo</i>	503753	Rare	Dispersed	Habitat importance map	0.0000
Swamp Everlasting	<i>Xerochrysum palustre</i>	503763	Vulnerable	Dispersed	Habitat importance map	0.0000



Species common name	Species scientific name	TAXON ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Fine-hairy Spear-grass	<i>Austrostipa puberula</i>	503988	Rare	Dispersed	Habitat importance map	0.0000
Basalt Sun-orchid	<i>Thelymitra gregaria</i>	504019	Endangered	Dispersed	Habitat importance map	0.0000
Flat Bluebell	<i>Wahlenbergia planiflora</i> subsp. <i>planiflora</i>	504064	Vulnerable	Dispersed	Habitat importance map	0.0000
Melbourne Yellow-gum	<i>Eucalyptus leucoxylon</i> subsp. <i>connata</i>	504484	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey Billy-buttons	<i>Craspedia canens</i>	504643	Endangered	Dispersed	Habitat importance map	0.0000
Small-flower Mat-rush	<i>Lomandra micrantha</i> subsp. <i>tuberculata</i>	504711	Rare	Dispersed	Habitat importance map	0.0000
Spiny Rice-flower	<i>Pimelea spinescens</i> subsp. <i>spinescens</i>	504823	Endangered	Dispersed	Habitat importance map	0.0000
Southern Swainson-pea	<i>Swainsona behriana</i>	504944	Rare	Dispersed	Habitat importance map	0.0000
Western Peppermint	<i>Eucalyptus falciformis</i>	505358	Rare	Dispersed	Habitat importance map	0.0000
Arching Flax-lily	<i>Dianella</i> sp. aff. <i>longifolia</i> (Benambra)	505560	Vulnerable	Dispersed	Habitat importance map	0.0000
Southern Bent-wing Bat	<i>Miniopterus schreibersii</i> <i>bassanii</i>	61343	Critically endangered	Dispersed	Habitat importance map	0.0000

Habitat Group

- Highly localised habitat means there is 2,000 hectares or less mapped habitat for the species.
- Dispersed habitat means there is more than 2,000 hectares of mapped habitat for the species.

Habitat Impacted

The Species General Offset test, as described in Section 5.3.1 of the Guidelines, is used to determine if proposed native vegetation removal will result in a proportionally significant impact on the habitat value of rare or threatened species. The test is applied where the native vegetation proposed for removal:

- Intersects the Habitat Importance Map for a rare or threatened species; or
- Intersects the 'top ranking' modelled habitat for a rare or threatened species with dispersed habitat, as identified in its Top Ranking Habitat Importance Map.

Top Ranking Maps consist of the 2,000 hectares of habitat with the highest Habitat Importance Scores for each dispersed species.

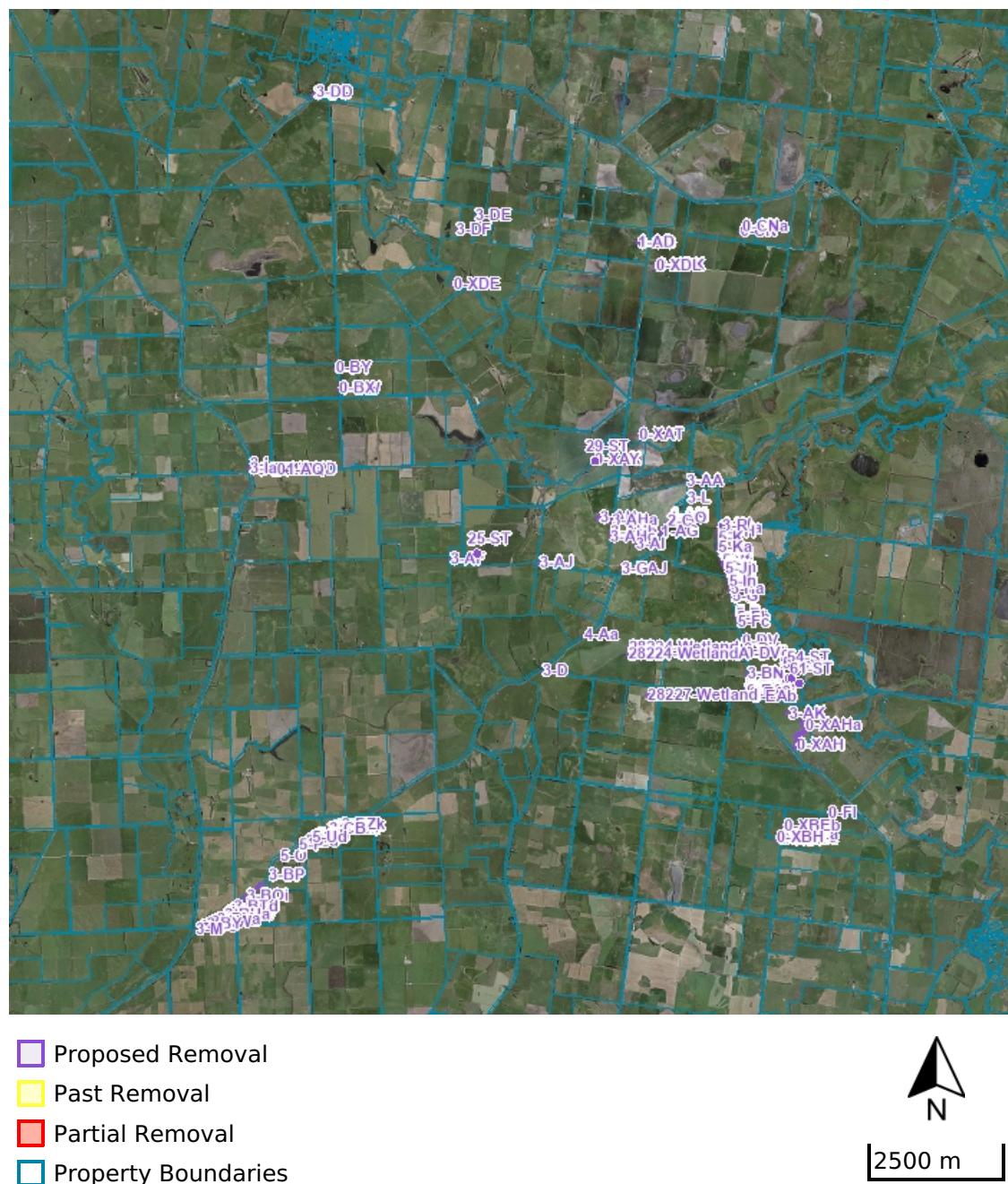


The 'Habitat impacted' column identifies whether the Habitat Importance Map or its Top Ranking Map was used to determine the proportional impact for a species with dispersed habitat.



Appendix 3: Images of mapped native vegetation

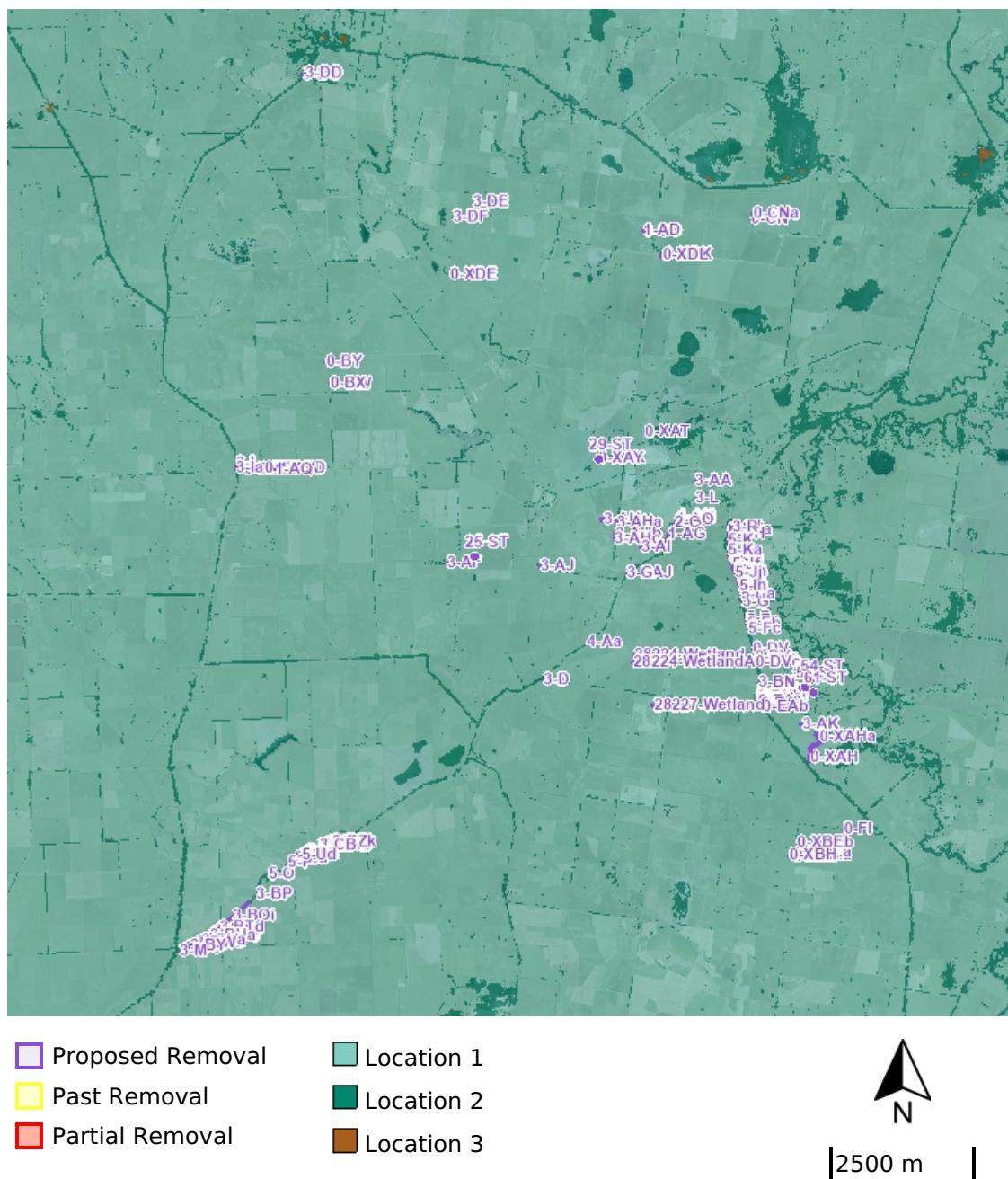
1. Property in context



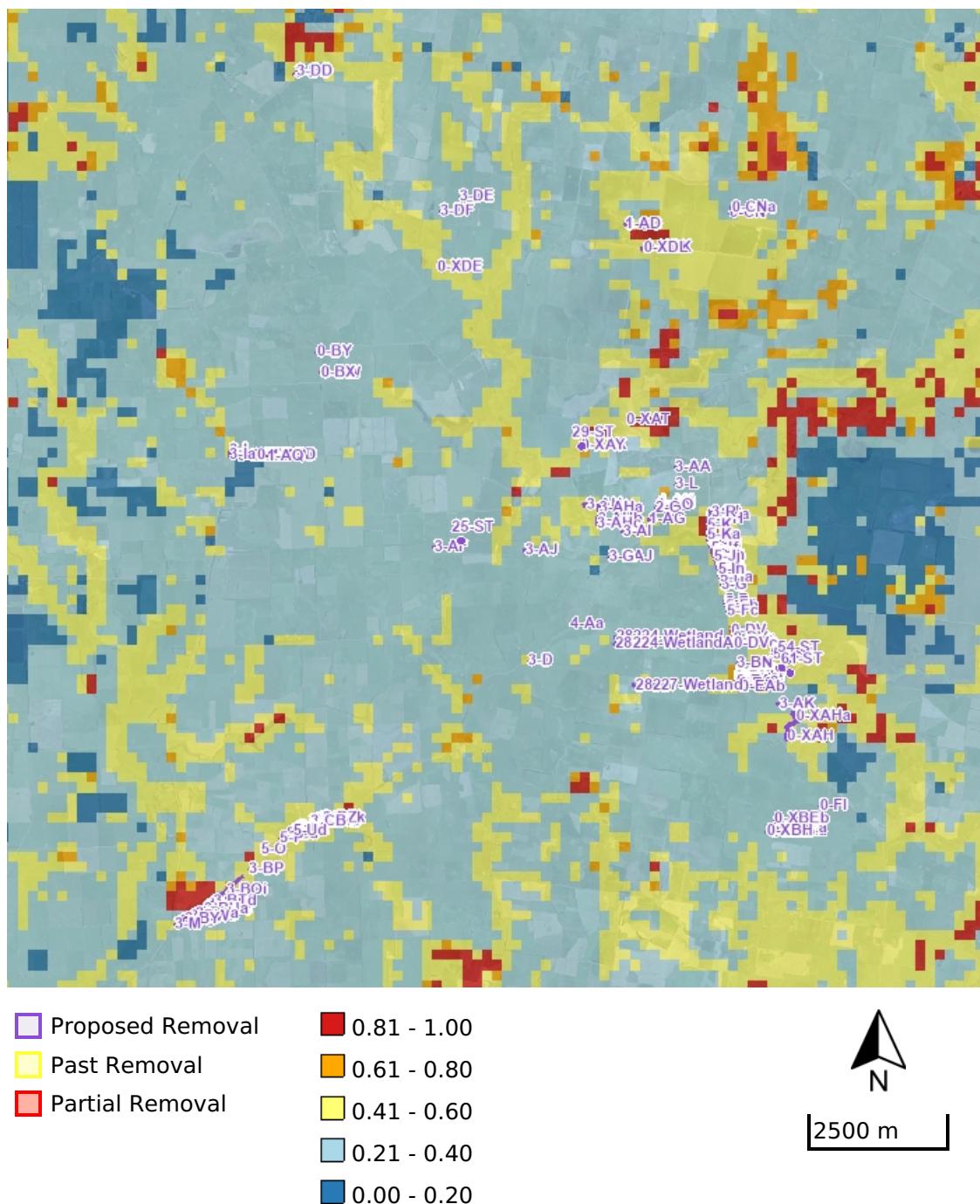
2. Aerial photograph showing mapped native vegetation



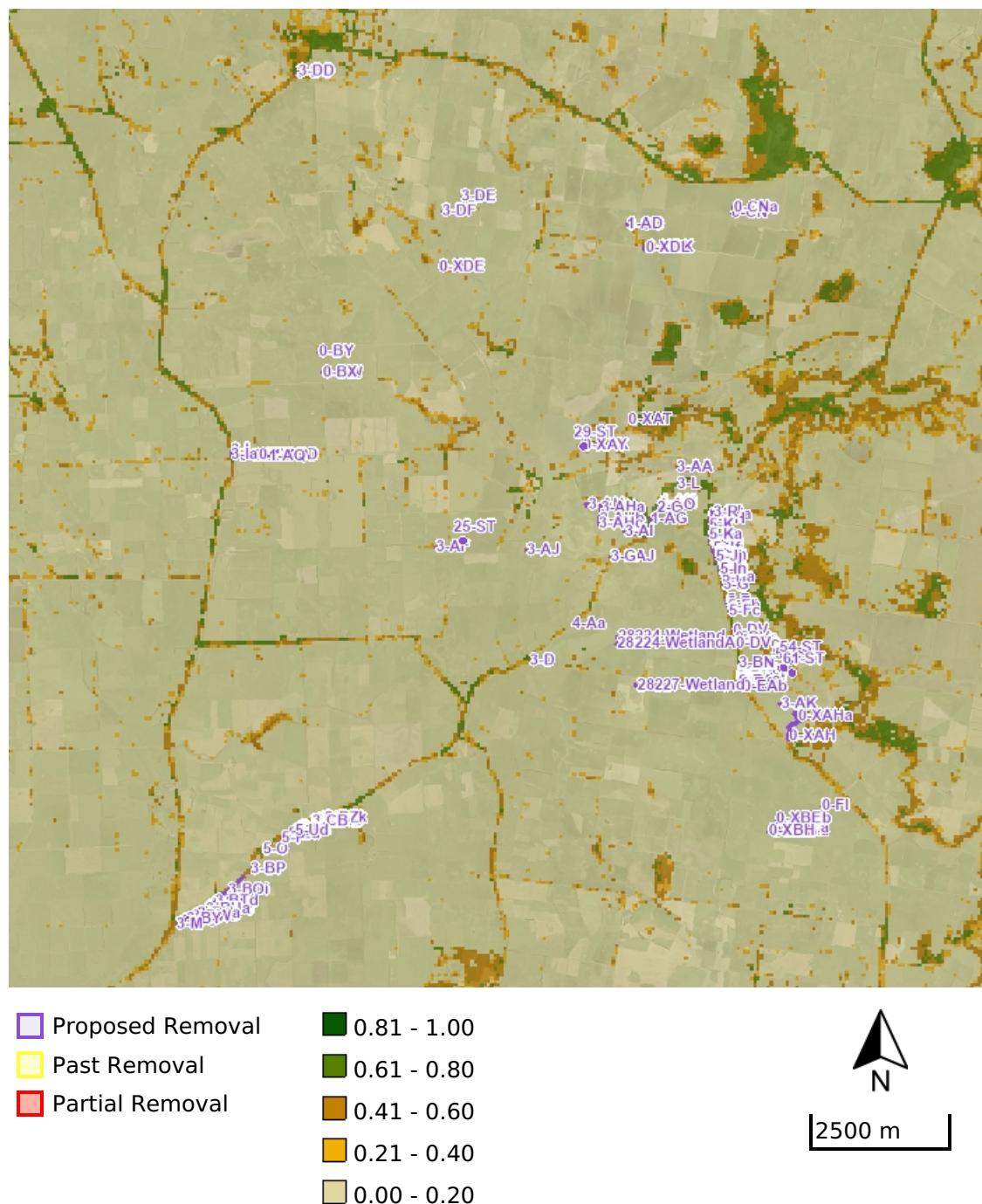
3. Location Risk Map



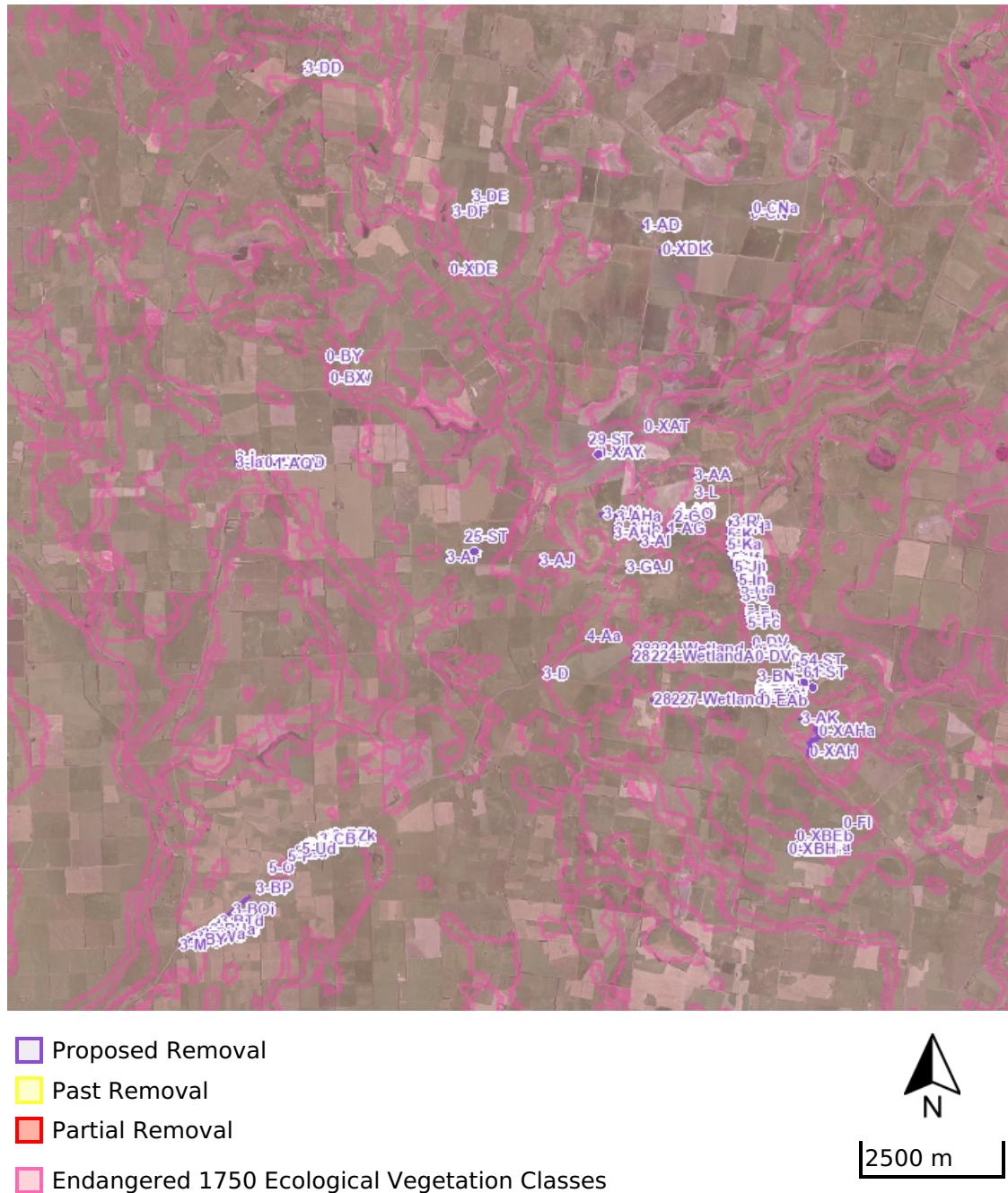
4. Strategic Biodiversity Value Score Map



5. Modelled Condition Score Map



6. Modelled Endangered EVCs





7. Habitat Importance maps

Not Applicable

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Native Vegetation Removal Report

NVRR ID: 354_20251217_LA6

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 Guidelines). This report is **not an assessment by DEECA** 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.

Report details

Date created: 17/12/2025

Local Government Area:

SOUTHERN GRAMPIANS SHIRE
MOYNE SHIRE

Shapefile name:

ToRunNVR_Patch_251215_V2_ChangedPastRemoval.shp
ToRunNVR_Tree_251215_V2_ChangedPastRemoval.shp

Regulator Notes

Removal polygons are located:

- Within a DEECA Mapped Wetland area
- On Crown Land

Site assessor name:

Cody Hajnal
DEECA

Registered Aboriginal Party:

Gunditj Mirring
Eastern Maar

Coordinates: 142.63997, -38.10449

Address:

HEXHAM-BALLANGEICH ROAD ELLERSLIE 3265
HAMILTON HIGHWAY HEXHAM 3273
289 IMMIGRANTS LANE ELLERSLIE 3265
1101 WOOLSTHORPE-HEXHAM ROAD HEXHAM 3273
1133 WOOLSTHORPE-HEXHAM ROAD HEXHAM 3273
IMMIGRANTS LANE ELLERSLIE 3265
289 FOUR MILE ROAD CARAMUT 3274
4014 WARRNAMBOOL-CARAMUT ROAD MINJAH 3276
300 WOOLSTHORPE-HEXHAM ROAD WOOLSTHORPE 3276
320 FOUR MILE ROAD CARAMUT 3274
(11 additional addresses not listed)



Summary of native vegetation to be removed

Assessment pathway	Detailed Assessment Pathway		
Location category	Location 2 The native vegetation extent map indicates that this area is typically characterised as supporting native vegetation. Additionally, it is modelled as encompassing an endangered Ecological Vegetation Class, sensitive wetland or sensitive coastal area. The removal of less than 0.5 hectares of native vegetation in this area will not require a Species Offset.		
Total extent including past and proposed removal (ha)	8.423	<i>Extent of past removal (ha)</i>	8.242
<i>Includes endangered EVCs (ha): 0.181</i>		<i>Extent of proposed removal - Patches (ha)</i>	0.181
		<i>Extent of proposed removal - Scattered Trees (ha)</i>	0.000
No. Large Trees proposed to be removed	5	<i>No. Large Patch Trees</i>	5
		<i>No. Large Scattered Trees</i>	0
No. Small Scattered Trees	0		

Offset requirements if approval is granted

Any approval granted will include a condition to obtain an offset, before the removal of native vegetation, that meets the following requirements:

General Offset amount ¹	0.1000 General Habitat Units
Vicinity	Glenelg Hopkins CMA or SOUTHERN GRAMPIANS SHIRE LGA, MOYNE SHIRE LGA
Minimum strategic biodiversity value score ²	0.4170
Large Trees*	5
*The total number of Large Trees that the offset must protect	5 Large Trees to be protected in either the General, Species or combination across all habitat units protected

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 with mapped habitat at the site

Appendix 3 includes the following figures

- Location map
- Strategic Biodiversity Value map
- Condition map
- Endangered EVCs map
- Aerial photograph showing mapped native vegetation
- Property in context
- Habitat Importance maps

1. The General Offset amount required is the sum of all General Habitat Units in Appendix 1.

2. Minimum strategic biodiversity value score is 80 per cent of the weighted average score across habitat zones where a General Offset is required.

3. The Species Offset amount(s) required is the sum of all Species Habitat Units in Appendix 1.



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 approval from the responsible authority. The responsible authority will refer your application to DEECA for assessment, as required. **This report is not a referral assessment by DEECA.**

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

Refer to 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 as applicable.
- A defendable space statement as applicable.
- A statement about the Native Vegetation Precinct Plan (NVPP) 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.



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 meets or exceeds the Species Offset threshold, a Species Offset is required. This test is completed for all species with mapped habitat 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 are calculated by the following equation in accordance with the Guidelines: ***Species Habitat Units = extent without overlap x condition score 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 are calculated by the following equation in accordance with the Guidelines: ***General Habitat Units = extent without overlap x condition score 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							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
0-BW	Patch	-	VVP_0068	Endangered	no	0.180	-	0.004	0.004		-		General
0-BX	Patch	-	VVP_0068	Endangered	no	0.180	-	0.017	0.017		-		General
0-BY	Patch	-	VVP_0068	Endangered	no	0.210	-	0.026	0.026		-		General
0-CN	Patch	-	VVP_0055_61	Endangered	no	0.240	2	0.089	0.089		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
0-CNa	Patch	-	VVP_0055_61	Endangered	no	0.240	2	0.086	0.086		-		General
0-CO	Patch	-	VVP_0125	Endangered	no	0.390	-	0.010	0.010		-		General
0-DF	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.025	0.025		-		General
0-DH	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.053	0.053		-		General
0-DV	Patch	-	VVP_0055_61	Endangered	no	0.280	-	0.030	0.030		-		General
0-DVa	Patch	-	VVP_0055_61	Endangered	no	0.280	-	0.083	0.083		-		General
0-DVb	Patch	-	VVP_0055_61	Endangered	no	0.280	-	0.015	0.015		-		General
0-DVc	Patch	-	VVP_0055_61	Endangered	no	0.280	-	0.000	0.000		-		General
0-DW	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.002	0.002		-		General
0-DWa	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.003	0.003		-		General
0-DWb	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.004	0.004		-		General
0-DWc	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.009	0.009		-		General
0-DWd	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.001	0.001		-		General
0-DWe	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.000	0.000		-		General
0-DX	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.000	0.000		-		General
0-DXa	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.001	0.001		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
0-DXb	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.001	0.001		-		General
0-DXc	Patch	-	VVP_0055_61	Endangered	no	0.290	-	0.000	0.000		-		General
0-DZ	Patch	-	VVP_0068	Endangered	no	0.140	-	0.005	0.005		-		General
0-DZa	Patch	-	VVP_0068	Endangered	no	0.140	-	0.000	0.000		-		General
0-EA	Patch	-	VVP_0132_61	Endangered	no	0.310	-	0.005	0.005		-		General
0-EAa	Patch	-	VVP_0132_61	Endangered	no	0.310	-	0.048	0.048		-		General
0-EAb	Patch	-	VVP_0132_61	Endangered	no	0.310	-	0.004	0.004		-		General
0-EY	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.002	0.002		-		General
0-EZ	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.037	0.037		-		General
0-FI	Patch	-	VVP_0125	Endangered	no	0.240	-	0.003	0.003		-		General
0-HA	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.079	0.079		-		General
0-HB	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.037	0.037		-		General
0-HD	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.000	0.000		-		General
0-XAH	Patch	-	VVP_0125	Endangered	no	0.380	-	1.087	1.087		-		General
0-XAHa	Patch	-	VVP_0125	Endangered	no	0.380	-	2.721	2.721		-		General
0-XAT	Patch	-	VVP_0653	Endangered	no	0.440	-	0.023	0.023		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
0-XAX	Patch	-	VVP_0653	Endangered	no	0.500	-	0.006	0.006		-		General
0-XAY	Patch	-	VVP_0653	Endangered	no	0.500	-	0.008	0.008		-		General
0-XBA	Patch	-	VVP_0125	Endangered	no	0.380	-	0.016	0.016		-		General
0-XBAa	Patch	-	VVP_0125	Endangered	no	0.380	-	0.011	0.011		-		General
0-XBE	Patch	-	VVP_0125	Endangered	no	0.380	-	0.004	0.004		-		General
0-XBEa	Patch	-	VVP_0125	Endangered	no	0.380	-	0.031	0.031		-		General
0-XBEb	Patch	-	VVP_0125	Endangered	no	0.380	-	0.002	0.002		-		General
0-XBF	Patch	-	VVP_0125	Endangered	no	0.200	-	0.004	0.004		-		General
0-XBG	Patch	-	VVP_0125	Endangered	no	0.150	-	0.141	0.141		-		General
0-XBH	Patch	-	VVP_0125	Endangered	no	0.180	-	0.011	0.011		-		General
0-XDE	Patch	-	VVP_0647	Endangered	no	0.400	-	0.016	0.016		-		General
0-XDK	Patch	-	VVP_0125	Endangered	no	0.320	-	0.004	0.004		-		General
0-XDL	Patch	-	VVP_0125	Endangered	no	0.430	-	0.234	0.234		-		General
1-AA	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.005	0.005		-		General
1-AD	Patch	-	VVP_0125	Endangered	no	0.390	-	0.040	0.040		-		General
1-AG	Patch	-	VVP_0055_61	Endangered	no	0.150	-	0.028	0.028		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
1-AK	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.008	0.008		-		General
1-AM	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.001	0.001		-		General
1-AN	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.004	0.004		-		General
1-AO	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.011	0.011		-		General
1-AP	Patch	-	VVP_0055_61	Endangered	no	0.040	-	0.000	0.000		-		General
1-AQ	Patch	-	VVP_0055_61	Endangered	no	0.040	-	0.000	0.000		-		General
1-F	Patch	-	VVP_0055_61	Endangered	no	0.560	1	0.015	0.015	0.520	-	0.009	General
1-G	Patch	-	VVP_0055_61	Endangered	no	0.540	3	0.123	0.123	0.520	-	0.076	General
1-I	Patch	-	VVP_0055_61	Endangered	no	0.330	1	0.036	0.036	0.466	-	0.013	General
1-L	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.007	0.007	0.830	-	0.002	General
1-M	Patch	-	VVP_0055_61	Endangered	no	0.080	-	0.007	0.007		-		General
1-Ma	Patch	-	VVP_0055_61	Endangered	no	0.080	-	0.005	0.005		-		General
1-Mb	Patch	-	VVP_0055_61	Endangered	no	0.080	-	0.031	0.031		-		General
1-U	Patch	-	VVP_0055_61	Endangered	no	0.100	-	0.001	0.001		-		General
2-C	Patch	-	VVP_0055_61	Endangered	no	0.100	-	0.003	0.003		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
28224-Wetland	Patch	-	VVP_0125	Endangered	no	0.200	-	0.142	0.142		-		General
28224-WetlandA	Patch	-	VVP_0125	Endangered	no	0.200	-	0.161	0.161		-		General
28227-Wetland	Patch	-	VVP_0125	Endangered	no	0.200	-	0.139	0.139		-		General
3-AA	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.009	0.009		-		General
3-AF	Patch	-	VVP_0125	Endangered	no	0.230	-	0.044	0.044		-		General
3-AH	Patch	-	VVP_0125	Endangered	no	0.300	-	0.669	0.669		-		General
3-AHa	Patch	-	VVP_0125	Endangered	no	0.300	-	0.245	0.245		-		General
3-AHb	Patch	-	VVP_0125	Endangered	no	0.300	-	0.176	0.176		-		General
3-AHc	Patch	-	VVP_0125	Endangered	no	0.300	-	0.079	0.079		-		General
3-AI	Patch	-	VVP_0125	Endangered	no	0.230	-	0.027	0.027		-		General
3-AJ	Patch	-	VVP_0125	Endangered	no	0.230	-	0.069	0.069		-		General
3-AK	Patch	-	VVP_0132_61	Endangered	no	0.230	-	0.104	0.104		-		General
3-BN	Patch	-	VVP_0055_61	Endangered	no	0.150	-	0.015	0.015		-		General
3-BO	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.002	0.002		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
3-BOa	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.157	0.157		-		General
3-BOb	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-BOc	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-BOd	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.001	0.001		-		General
3-BOe	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.001	0.001		-		General
3-BOf	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-BOg	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.003	0.003		-		General
3-BOh	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-BOi	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.195	0.195		-		General
3-BP	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-BT	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.006	0.006		-		General
3-BTa	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.002	0.002		-		General
3-BTb	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.002	0.002		-		General
3-BTc	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.003	0.003		-		General
3-BTd	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.000	0.000		-		General
3-BU	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.002	0.002		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
3-BUa	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.000	0.000		-		General
3-BV	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.001	0.001		-		General
3-BVa	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.000	0.000		-		General
3-BW	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.000	0.000		-		General
3-BY	Patch	-	VVP_0055_61	Endangered	no	0.190	-	0.000	0.000		-		General
3-BZ	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-BZa	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.007	0.007		-		General
3-BZb	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-BZc	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-BZd	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-BZe	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.004	0.004		-		General
3-BZf	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.001	0.001		-		General
3-BZg	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.001	0.001		-		General
3-BZh	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.009	0.009		-		General
3-BZi	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-BZj	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
3-BZk	Patch	-	VVP_0132_61	Endangered	no	0.530	-	0.000	0.000		-		General
3-CA	Patch	-	VVP_0132_61	Endangered	no	0.130	-	0.001	0.001		-		General
3-CB	Patch	-	VVP_0132_61	Endangered	no	0.130	-	0.000	0.000		-		General
3-D	Patch	-	VVP_0055_61	Endangered	no	0.170	-	0.019	0.019		-		General
3-DCa	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.000	0.000		-		General
3-DCb	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.034	0.034		-		General
3-DD	Patch	-	VVP_0055_61	Endangered	no	0.150	-	0.001	0.001		-		General
3-DE	Patch	-	VVP_0132_61	Endangered	no	0.150	-	0.003	0.003		-		General
3-DF	Patch	-	VVP_0055_61	Endangered	no	0.190	-	0.006	0.006		-		General
3-G	Patch	-	VVP_0055_61	Endangered	no	0.280	-	0.023	0.023		-		General
3-I	Patch	-	VVP_0055_61	Endangered	no	0.200	-	0.002	0.002		-		General
3-la	Patch	-	VVP_0055_61	Endangered	no	0.200	-	0.076	0.076		-		General
3-J	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.011	0.011		-		General
3-M	Patch	-	VVP_0055_61	Endangered	no	0.150	-	0.011	0.011		-		General
4-A	Patch	-	VVP_0132_61	Endangered	no	0.160	-	0.021	0.021		-		General
4-G	Patch	-	VVP_0132_61	Endangered	no	0.280	-	0.004	0.004		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
5-D	Patch	-	VVP_0132_61	Endangered	no	0.260	-	0.000	0.000		-		General
5-E	Patch	-	VVP_0055_61	Endangered	no	0.150	-	0.000	0.000		-		General
5-F	Patch	-	VVP_0132_61	Endangered	no	0.320	-	0.002	0.002		-		General
5-Fa	Patch	-	VVP_0132_61	Endangered	no	0.320	-	0.061	0.061		-		General
5-Fb	Patch	-	VVP_0132_61	Endangered	no	0.320	-	0.005	0.005		-		General
5-Fc	Patch	-	VVP_0132_61	Endangered	no	0.320	-	0.010	0.010		-		General
5-G	Patch	-	VVP_0055_61	Endangered	no	0.120	-	0.030	0.030		-		General
5-H	Patch	-	VVP_0055_61	Endangered	no	0.180	-	0.016	0.016		-		General
5-Ha	Patch	-	VVP_0055_61	Endangered	no	0.180	-	0.013	0.013		-		General
5-I	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.004	0.004		-		General
5-1a	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.006	0.006		-		General
5-1b	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.002	0.002		-		General
5-1c	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.010	0.010		-		General
5-1d	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.000	0.000		-		General
5-1e	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.001	0.001		-		General
5-1f	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.000	0.000		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
5-Ig	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.000	0.000		-		General
5-Ih	Patch	-	VVP_0055_61	Endangered	no	0.160	-	0.003	0.003		-		General
5-J	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.004	0.004		-		General
5-Ja	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.001	0.001		-		General
5-Jb	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.001	0.001		-		General
5-Jc	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.000	0.000		-		General
5-Jd	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.000	0.000		-		General
5-Je	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.008	0.008		-		General
5-Jf	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.000	0.000		-		General
5-Jg	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.018	0.018		-		General
5-Jh	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.000	0.000		-		General
5-Ji	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.001	0.001		-		General
5-Jj	Patch	-	VVP_0055_61	Endangered	no	0.210	-	0.000	0.000		-		General
5-K	Patch	-	VVP_0132_61	Endangered	no	0.280	-	0.029	0.029		-		General
5-Ka	Patch	-	VVP_0132_61	Endangered	no	0.280	-	0.010	0.010		-		General
5-L	Patch	-	VVP_0132_61	Endangered	no	0.500	-	0.000	0.000		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
5-La	Patch	-	VVP_0132_61	Endangered	no	0.500	-	0.004	0.004		-		General
5-Lb	Patch	-	VVP_0132_61	Endangered	no	0.500	-	0.003	0.003		-		General
5-Lc	Patch	-	VVP_0132_61	Endangered	no	0.500	-	0.008	0.008		-		General
5-Ld	Patch	-	VVP_0132_61	Endangered	no	0.500	-	0.000	0.000		-		General
5-O	Patch	-	VVP_0055_61	Endangered	no	0.080	-	0.010	0.010		-		General
5-P	Patch	-	VVP_0055_61	Endangered	no	0.130	-	0.000	0.000		-		General
5-U	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.000	0.000		-		General
5-Ua	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.000	0.000		-		General
5-Ub	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.006	0.006		-		General
5-Uc	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.002	0.002		-		General
5-Ud	Patch	-	VVP_0132_61	Endangered	no	0.040	-	0.000	0.000		-		General
25-ST	Scattered Tree	41	VVP_0055_61	Endangered	no	0.200	-	0.031	0.031		-		General
29-ST	Scattered Tree	23	VVP_0055_61	Endangered	no	0.200	-	0.031	0.030		-		General
52-ST	Scattered Tree	103	VVP_0055_61	Endangered	no	0.200	1	0.070	0.070		-		General



Information provided by or on behalf of the applicant							Information calculated by NVR Map						
Zone	Type	DBH (cm)	EVC code	Bioregional conservation status	Partial Removal	Condition score	Large Tree(s)	Polygon extent (ha)	Extent without overlap (ha)	SBV score	HI Score	Habitat Units	Offset Type
53-ST	Scattered Tree	82	VVP_0055_61	Endangered	no	0.200	1	0.070	0.070		-		General
54-ST	Scattered Tree	143	VVP_0055_61	Endangered	no	0.200	1	0.070	0.070		-		General
61-ST	Scattered Tree	148	VVP_0055_61	Endangered	no	0.200	1	0.070	0.070		-		General



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

This table identifies all rare or threatened species with mapped habitat at the site and the proportional impact associated with the proposed native vegetation removal.

Species common name	Species scientific name	TAXON ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Curly Sedge	<i>Carex tasmanica</i>	500650	Vulnerable	Dispersed	Habitat importance map	0.0005
Yarra Pygmy Perch	<i>Nannoperca obscura</i>	4882	Vulnerable	Dispersed	Habitat importance map	0.0002
Salt Blown-grass	<i>Lachnagrostis robusta</i>	504223	Rare	Dispersed	Habitat importance map	0.0002
Clumping Golden Moths	<i>Diuris gregaria</i>	504887	Endangered	Dispersed	Habitat importance map	0.0002
Candy Spider-orchid	<i>Caladenia versicolor</i>	500522	Endangered	Dispersed	Habitat importance map	0.0001
Curly Sedge	<i>Carex tasmanica</i>	500650	Vulnerable	Dispersed	Top ranking map	0.0001
Purple Diuris	<i>Diuris punctata</i>	501084	Vulnerable	Dispersed	Habitat importance map	0.0001
Snowy Mint-bush	<i>Prostanthera nivea</i> var. <i>nivea</i>	502746	Rare	Dispersed	Habitat importance map	0.0001
Button Wrinklewort	<i>Rutidosis leptorhynchoides</i>	502982	Endangered	Dispersed	Habitat importance map	0.0001
Large-headed Fireweed	<i>Senecio macrocarpus</i>	503116	Endangered	Dispersed	Habitat importance map	0.0001
Plump Swamp Wallaby-grass	<i>Amphibromus pithogastrus</i>	503624	Endangered	Dispersed	Habitat importance map	0.0001
Wavy Swamp Wallaby-grass	<i>Amphibromus sinuatus</i>	503625	Vulnerable	Dispersed	Habitat importance map	0.0001
Flat Bluebell	<i>Wahlenbergia planiflora</i> subsp. <i>planiflora</i>	504064	Vulnerable	Dispersed	Habitat importance map	0.0001
Purple Blown-grass	<i>Lachnagrostis punicea</i> subsp. <i>punicea</i>	504206	Rare	Dispersed	Habitat importance map	0.0001
Purple Blown-grass	<i>Lachnagrostis punicea</i> subsp. <i>filifolia</i>	504222	Rare	Dispersed	Habitat importance map	0.0001



Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Brackish Plains Buttercup	<i>Ranunculus diminutus</i>	504314	Rare	Dispersed	Habitat importance map	0.0001
Fragrant Leek-orchid	<i>Prasophyllum suaveolens</i>	504567	Endangered	Dispersed	Top ranking map	0.0001
Fragrant Leek-orchid	<i>Prasophyllum suaveolens</i>	504567	Endangered	Dispersed	Habitat importance map	0.0001
White Sunray	<i>Leucochrysum albicans</i> subsp. <i>tricolor</i>	504581	Endangered	Dispersed	Habitat importance map	0.0001
Pale Swamp Everlasting	<i>Coronidium gunnianum</i>	504655	Vulnerable	Dispersed	Habitat importance map	0.0001
Plains Yam-daisy	<i>Microseris scapigera</i> s.s.	504657	Vulnerable	Dispersed	Habitat importance map	0.0001
Matted Flax-lily	<i>Dianella amoena</i>	505084	Endangered	Dispersed	Habitat importance map	0.0001
Swamp Flax-lily	<i>Dianella callicarpa</i>	505086	Rare	Dispersed	Habitat importance map	0.0001
Pale-flower Crane's-bill	<i>Geranium</i> sp. 3	505344	Rare	Dispersed	Habitat importance map	0.0001
Wind-blown Tussock-grass	<i>Poa physoclinia</i>	507791	Endangered	Dispersed	Top ranking map	0.0001
Wind-blown Tussock-grass	<i>Poa physoclinia</i>	507791	Endangered	Dispersed	Habitat importance map	0.0001
Lewin's Rail	<i>Lewinia pectoralis</i> <i>pectoralis</i>	10045	Vulnerable	Dispersed	Habitat importance map	0.0000
Gull-billed Tern	<i>Gelochelidon nilotica</i> <i>macrotarsa</i>	10111	Endangered	Dispersed	Habitat importance map	0.0000
Australian Painted Snipe	<i>Rostratula australis</i>	10170	Critically endangered	Dispersed	Habitat importance map	0.0000
Brolga	<i>Grus rubicunda</i>	10177	Vulnerable	Dispersed	Habitat importance map	0.0000
Little Egret	<i>Egretta garzetta</i> <i>nigripes</i>	10185	Endangered	Dispersed	Habitat importance map	0.0000
Intermediate Egret	<i>Ardea intermedia</i>	10186	Endangered	Dispersed	Habitat importance map	0.0000
Eastern Great Egret	<i>Ardea modesta</i>	10187	Vulnerable	Dispersed	Habitat importance map	0.0000



Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Australian Little Bittern	<i>Ixobrychus dubius</i>	10195	Endangered	Dispersed	Habitat importance map	0.0000
Australasian Bittern	<i>Botaurus poiciloptilus</i>	10197	Endangered	Dispersed	Habitat importance map	0.0000
Australasian Shoveler	<i>Anas rhynchos</i>	10212	Vulnerable	Dispersed	Habitat importance map	0.0000
Freckled Duck	<i>Stictonetta naevosa</i>	10214	Endangered	Dispersed	Habitat importance map	0.0000
Hardhead	<i>Aythya australis</i>	10215	Vulnerable	Dispersed	Habitat importance map	0.0000
Blue-billed Duck	<i>Oxyura australis</i>	10216	Endangered	Dispersed	Habitat importance map	0.0000
Musk Duck	<i>Biziura lobata</i>	10217	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey Goshawk	<i>Accipiter novaehollandiae novaehollandiae</i>	10220	Vulnerable	Dispersed	Habitat importance map	0.0000
Black Falcon	<i>Falco subniger</i>	10238	Vulnerable	Dispersed	Habitat importance map	0.0000
Elegant Parrot	<i>Neophema elegans</i>	10307	Vulnerable	Dispersed	Habitat importance map	0.0000
Chestnut-rumped Heathwren	<i>Calamanthus pyrrhopygius</i>	10498	vulnerable	Dispersed	Habitat importance map	0.0000
Striped Legless Lizard	<i>Delma impar</i>	12159	Endangered	Dispersed	Habitat importance map	0.0000
Glossy Grass Skink	<i>Pseudemoia rawlinsoni</i>	12683	Vulnerable	Dispersed	Habitat importance map	0.0000
Grassland Earless Dragon	<i>Tympanocryptis pinguicolla</i>	12922	Critically endangered	Dispersed	Habitat importance map	0.0000
Tussock Skink	<i>Pseudemoia pagenstecheri</i>	12993	Vulnerable	Dispersed	Habitat importance map	0.0000
Growling Grass Frog	<i>Litoria raniformis</i>	13207	Endangered	Dispersed	Habitat importance map	0.0000
Golden Sun Moth	<i>Synemon plana</i>	15021	Critically endangered	Dispersed	Habitat importance map	0.0000



Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Rock Wattle	<i>Acacia rupicola</i>	500082	Rare	Dispersed	Habitat importance map	0.0000
Large White Spider-orchid	<i>Caladenia venusta</i>	500533	Rare	Dispersed	Habitat importance map	0.0000
Buloke	<i>Allocasuarina luehmannii</i>	500678	Endangered	Dispersed	Habitat importance map	0.0000
Leafy Twig-sedge	<i>Cladium procerum</i>	500786	Rare	Dispersed	Habitat importance map	0.0000
Small Milkwort	<i>Comesperma polygaloides</i>	500798	Vulnerable	Dispersed	Habitat importance map	0.0000
Golden Cowslips	<i>Diuris behrii</i>	501061	Vulnerable	Dispersed	Habitat importance map	0.0000
Southern Pipewort	<i>Eriocaulon australasicum</i>	501217	Endangered	Dispersed	Habitat importance map	0.0000
Common Pipewort	<i>Eriocaulon scariosum</i>	501218	Rare	Dispersed	Habitat importance map	0.0000
Small-leaf Wax-flower	<i>Philotheca difformis</i> subsp. <i>difformis</i>	501223	Endangered	Dispersed	Habitat importance map	0.0000
Bog Gum	<i>Eucalyptus kitsoniana</i>	501290	Rare	Dispersed	Habitat importance map	0.0000
Yarra Gum	<i>Eucalyptus yarraensis</i>	501326	Rare	Dispersed	Habitat importance map	0.0000
Clover Glycine	<i>Glycine latrobeana</i>	501456	Vulnerable	Dispersed	Habitat importance map	0.0000
Creeping Rush	<i>Juncus revolutus</i>	501839	Rare	Dispersed	Habitat importance map	0.0000
Salt Lawrenzia	<i>Lawrenzia spicata</i>	501888	Rare	Dispersed	Habitat importance map	0.0000
Button Immortelle	<i>Leptorhynchus waitzia</i>	501949	Vulnerable	Dispersed	Habitat importance map	0.0000
Branching Scale-rush	<i>Sporadanthus tasmanicus</i>	501969	Rare	Dispersed	Habitat importance map	0.0000
Salt Paperbark	<i>Melaleuca halmaturorum</i>	502149	Vulnerable	Dispersed	Habitat importance map	0.0000
Forked Rice-flower	<i>Pimelea hewardiana</i>	502522	Rare	Dispersed	Habitat importance map	0.0000



Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Green Leek-orchid	<i>Prasophyllum lindleyanum</i>	502702	Vulnerable	Dispersed	Habitat importance map	0.0000
Showy Lobelia	<i>Lobelia beagleholei</i>	502733	Rare	Dispersed	Habitat importance map	0.0000
Slender Mint-bush	<i>Prostanthera saxicola</i> var. <i>bracteolata</i>	502750	Rare	Dispersed	Habitat importance map	0.0000
Small Scurf-pea	<i>Cullen parvum</i>	502773	Endangered	Dispersed	Habitat importance map	0.0000
Tough Scurf-pea	<i>Cullen tenax</i>	502776	Endangered	Dispersed	Habitat importance map	0.0000
Hairy Tails	<i>Ptilotus erubescens</i>	502825	Vulnerable	Dispersed	Habitat importance map	0.0000
Quinetia	<i>Quinetia urvillei</i>	502885	Rare	Dispersed	Habitat importance map	0.0000
Tiny Bog-sedge	<i>Schoenus nanus</i>	503050	Rare	Dispersed	Habitat importance map	0.0000
Branching Groundsel	<i>Senecio cunninghamii</i> var. <i>cunninghamii</i>	503104	Rare	Dispersed	Habitat importance map	0.0000
Metallic Sun-orchid	<i>Thelymitra epipactoides</i>	503367	Endangered	Dispersed	Habitat importance map	0.0000
Blotched Sun-orchid	<i>Thelymitra benthamiana</i>	503369	Vulnerable	Dispersed	Habitat importance map	0.0000
Fringed Sun-orchid	<i>Thelymitra luteocilium</i>	503375	Rare	Dispersed	Habitat importance map	0.0000
Grampians Thryptomene	<i>Thryptomene calycina</i>	503395	Rare	Dispersed	Habitat importance map	0.0000
Dwarf Brooklime	<i>Gratiola pumilo</i>	503753	Rare	Dispersed	Habitat importance map	0.0000
Swamp Everlasting	<i>Xerochrysum palustre</i>	503763	Vulnerable	Dispersed	Habitat importance map	0.0000
Fine-hairy Spear-grass	<i>Austrostipa puberula</i>	503988	Rare	Dispersed	Habitat importance map	0.0000
Basalt Sun-orchid	<i>Thelymitra gregaria</i>	504019	Endangered	Dispersed	Habitat importance map	0.0000
Dwarf Boronia	<i>Boronia nana</i> var. <i>pubescens</i>	504278	Rare	Dispersed	Habitat importance map	0.0000



Species common name	Species scientific name	Taxon ID	Conservation status	Group	Habitat impacted	Proportional impact (%)
Common Beard-heath	<i>Leucopogon virgatus</i> var. <i>brevifolius</i>	504392	Rare	Dispersed	Habitat importance map	0.0000
Melbourne Yellow-gum	<i>Eucalyptus leucoxylon</i> subsp. <i>connata</i>	504484	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey Billy-buttons	<i>Craspedia canens</i>	504643	Endangered	Dispersed	Habitat importance map	0.0000
Small-flower Mat-rush	<i>Lomandra micrantha</i> subsp. <i>tuberculata</i>	504711	Rare	Dispersed	Habitat importance map	0.0000
Spiny Rice-flower	<i>Pimelea spinescens</i> subsp. <i>spinescens</i>	504823	Endangered	Dispersed	Habitat importance map	0.0000
Southern Swainson-pea	<i>Swainsona behriana</i>	504944	Rare	Dispersed	Habitat importance map	0.0000
Tufted Grass-tree	<i>Xanthorrhoea caespitosa</i>	505088	Rare	Dispersed	Habitat importance map	0.0000
Casterton Wattle	<i>Acacia exudans</i>	505137	Vulnerable	Dispersed	Habitat importance map	0.0000
Wimmera Scentbark	<i>Eucalyptus sabulosa</i>	505174	Rare	Dispersed	Habitat importance map	0.0000
Western Peppermint	<i>Eucalyptus falciformis</i>	505358	Rare	Dispersed	Habitat importance map	0.0000
Arching Flax-lily	<i>Dianella</i> sp. aff. <i>longifolia</i> (Benambra)	505560	Vulnerable	Dispersed	Habitat importance map	0.0000
Southern Bent-wing Bat	<i>Miniopterus schreibersii</i> <i>bassanii</i>	61343	Critically endangered	Dispersed	Habitat importance map	0.0000

Habitat Group

- Highly localised habitat means there is 2,000 hectares or less mapped habitat for the species.
- Dispersed habitat means there is more than 2,000 hectares of mapped habitat for the species.

Habitat Impacted

The Species General Offset test, as described in Section 5.3.1 of the Guidelines, is used to determine if proposed native vegetation removal will result in a proportionally significant impact on the habitat value of rare or threatened species. The test is applied where the native vegetation proposed for removal:

- Intersects the Habitat Importance Map for a rare or threatened species; or
- Intersects the 'top ranking' modelled habitat for a rare or threatened species with dispersed habitat, as identified in its Top Ranking Habitat Importance Map.



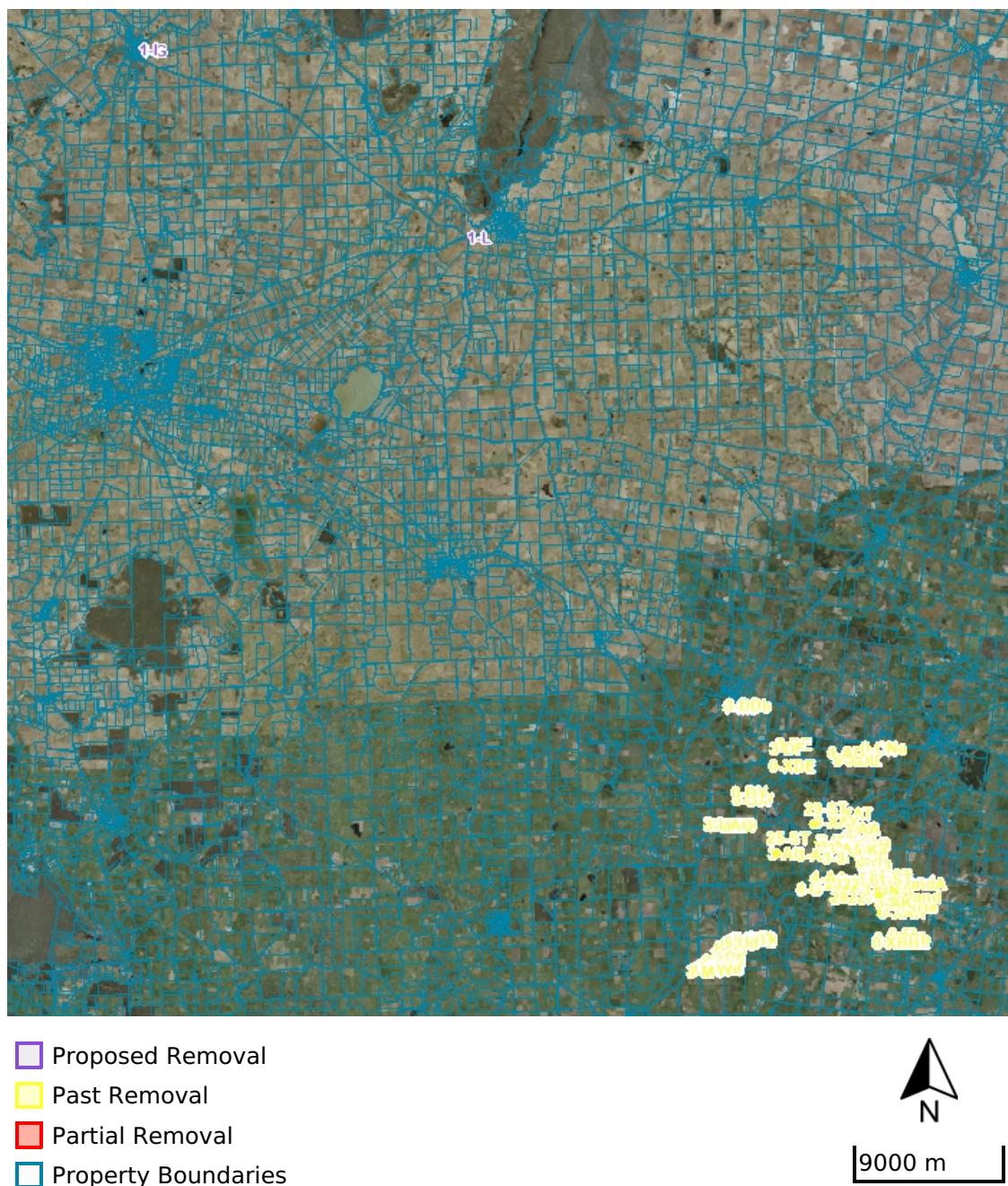
Top Ranking Maps consist of the 2,000 hectares of habitat with the highest Habitat Importance Scores for each dispersed species.

The 'Habitat impacted' column identifies whether the Habitat Importance Map or its Top Ranking Map was used to determine the proportional impact for a species with dispersed habitat.

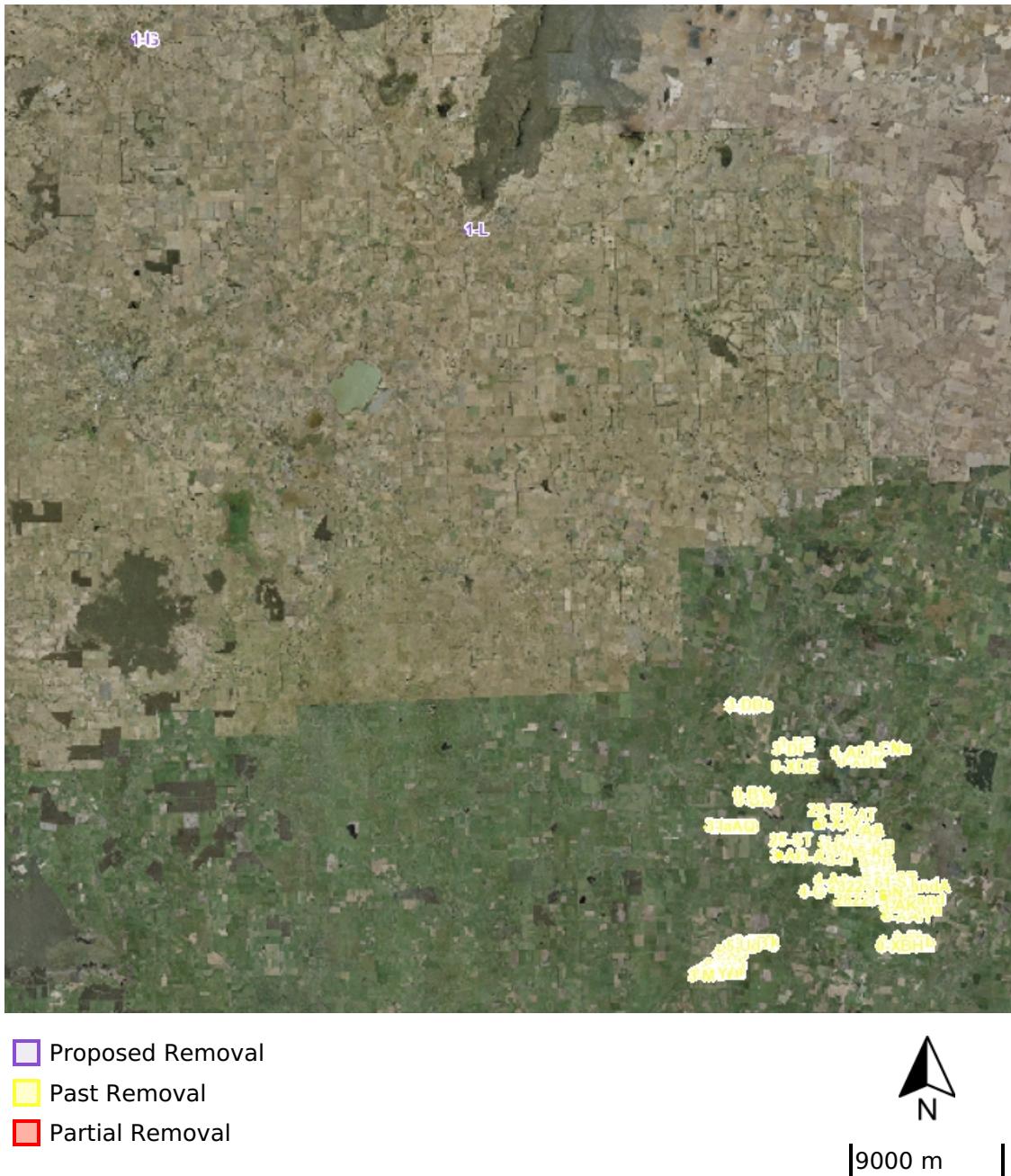


Appendix 3: Images of mapped native vegetation

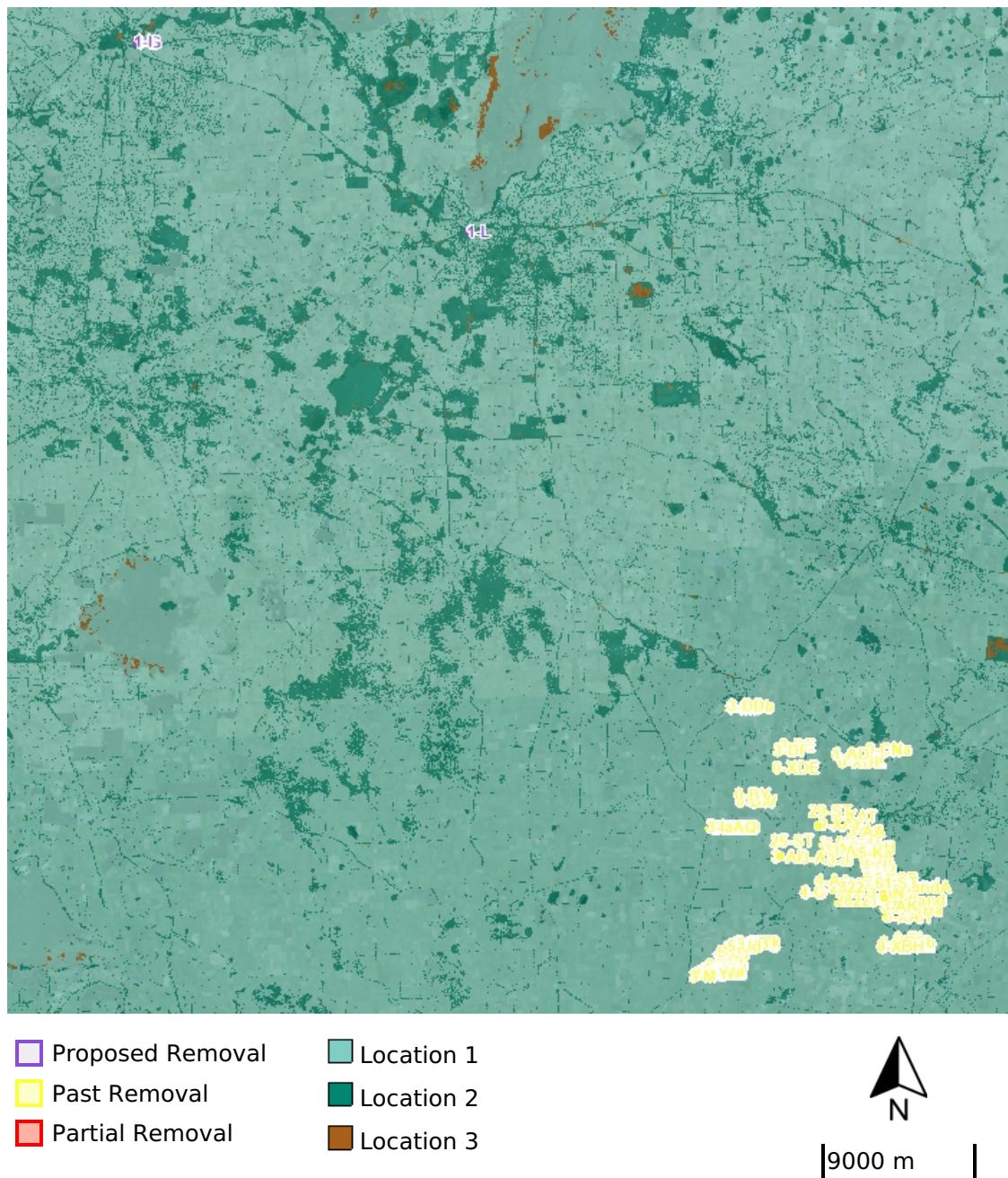
1. Property in context



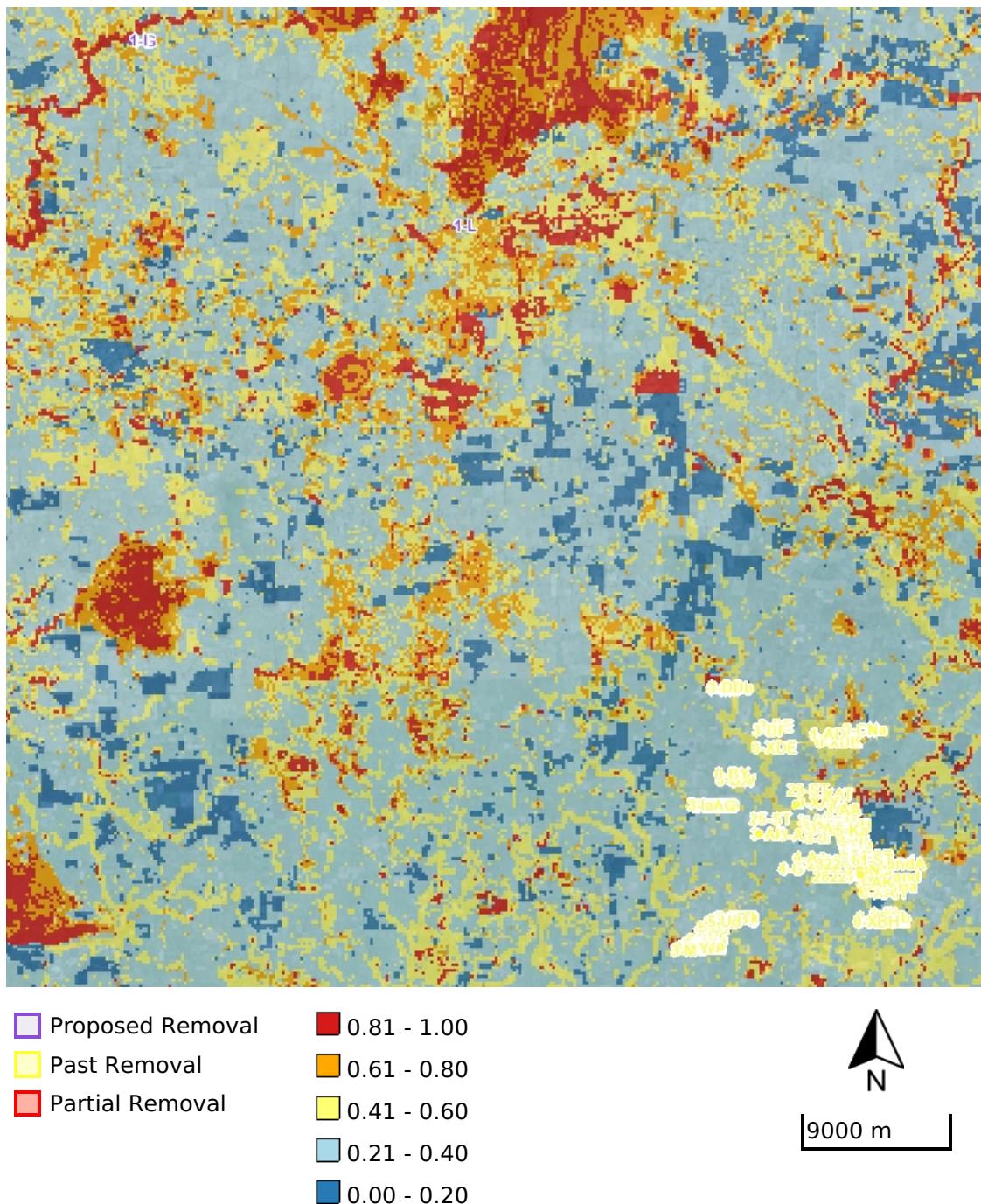
2. Aerial photograph showing mapped native vegetation



3. Location Risk Map



4. Strategic Biodiversity Value Score Map

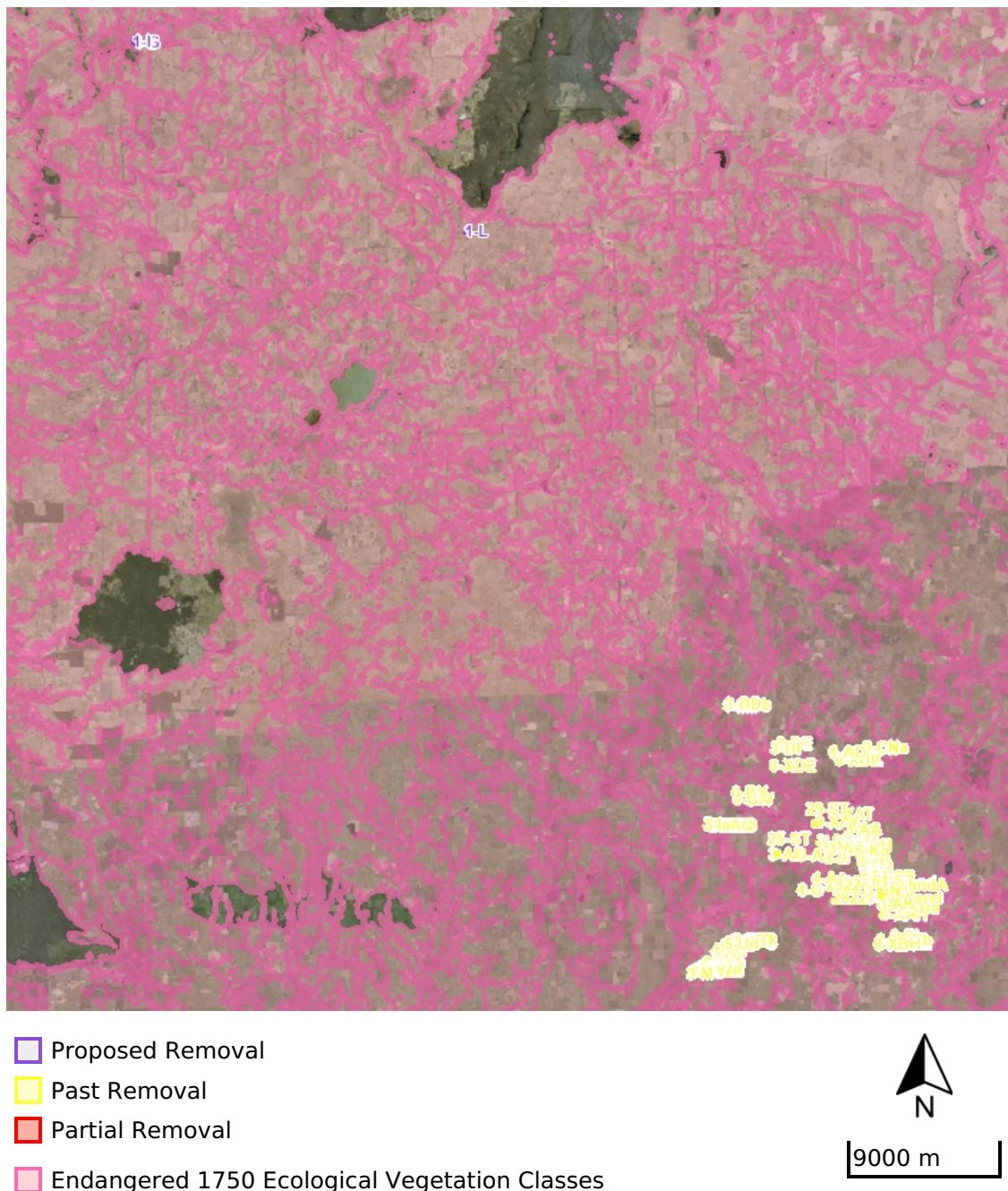


5. Modelled Condition Score Map



9000 m

6. Modelled Endangered EVCs





7. Habitat Importance maps

Not Applicable

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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: 17/12/2025

Report ID: NAA_2025_010

Time of issue: 4:20 pm

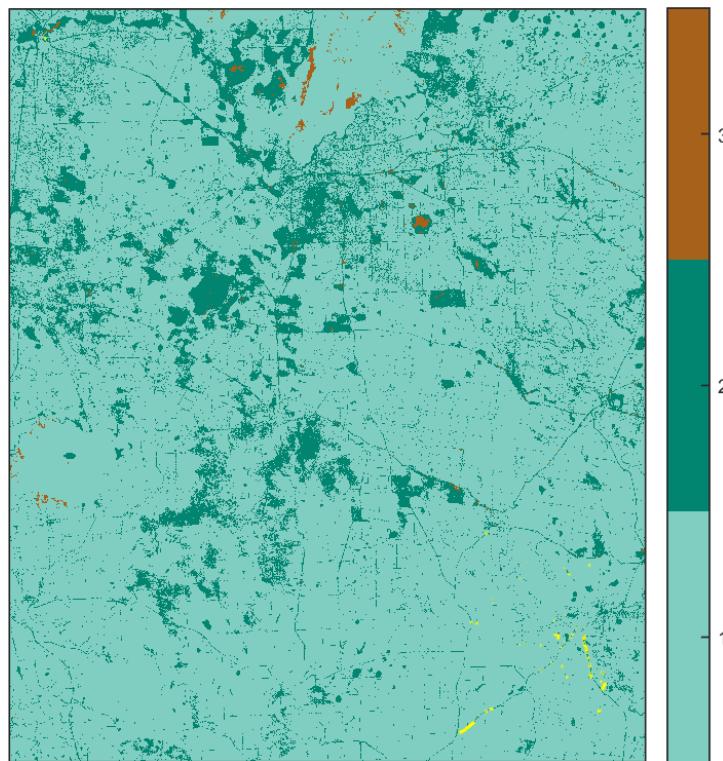
Project ID

18088_28_29_Ensym_Portland_Geelong_SweptPath_PublicRoad_DevelopmentPlan_251217

Assessment pathway

Assessment pathway	Detailed Assessment Pathway
Extent including past and proposed	8.533 ha
Extent of past removal	0.000 ha
Extent of proposed removal	8.533 ha
No. Large trees proposed to be removed	13
Location category of proposed removal	<p>Location 3</p> <p>The native vegetation is in an area where the removal of less than 0.5 hectares could have a significant impact on habitat for one or more rare or threatened species. The native vegetation is also in an area mapped as an endangered Ecological Vegetation Class (as per the statewide EVC map).</p>

1. Location map



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Native vegetation removal report

Total 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 amount¹	3.011 general habitat units
Vicinity	Glenelg Hopkins Catchment Management Authority (CMA) or Moyne Shire, Southern Grampians Shire Council
Minimum strategic biodiversity value score ²	0.351
Large trees	13 large trees

Offset requirements if a permit is granted – Southern Grampians

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

General offset amount	0.100 general habitat units
Vicinity	Glenelg Hopkins Catchment Management Authority (CMA) or Southern Grampians Shire Council
Minimum strategic biodiversity value score	0.417
Large trees	5 large trees

Offset requirements if a permit is granted – Moyne Shire

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

General offset amount	2.911 general habitat units
Vicinity	Glenelg Hopkins Catchment Management Authority (CMA) or Moyne Shire
Minimum strategic biodiversity value score	0.349
Large trees	8 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



Native vegetation removal report

Next steps

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

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

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

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

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

Additional application requirements must be met including:

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

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For more information contact the DELWP Customer Service Centre 136 186

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

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

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:

$$\text{Species habitat units} = \text{extent} \times \text{condition} \times \text{species landscape factor} \times 2, \text{ where the species landscape factor} = 0.5 + (\text{habitat importance score}/2)$$

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:

$$\text{General habitat units} = \text{extent} \times \text{condition} \times \text{general landscape factor} \times 1.5, \text{ where the general landscape factor} = 0.5 + (\text{strategic biodiversity value score}/2)$$

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
1-1AG	Patch	vvp_0055_61	Endangered	0	no	0.150	0.028	0.028	0.411		0.004	General
1-2C	Patch	vvp_0055_61	Endangered	0	no	0.100	0.003	0.003	0.370		0.000	General
1-1AK	Patch	vvp_0055_61	Endangered	0	no	0.120	0.008	0.008	0.360		0.001	General
1-1AM	Patch	vvp_0055_61	Endangered	0	no	0.120	0.001	0.001	0.360		0.000	General
1-1AN	Patch	vvp_0055_61	Endangered	0	no	0.120	0.004	0.004	0.360		0.001	General
1-1AO	Patch	vvp_0055_61	Endangered	0	no	0.120	0.011	0.011	0.360		0.001	General
1-0HB	Patch	vvp_0055_61	Endangered	0	no	0.120	0.037	0.037	0.320		0.004	General
1-0HA	Patch	vvp_0055_61	Endangered	0	no	0.120	0.079	0.079	0.340		0.009	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
1-0HD	Patch	vvp_0055_61	Endangered	0	no	0.130	0.000	0.000	0.290		0.000	General
1-1AP	Patch	vvp_0055_61	Endangered	0	no	0.040	0.000	0.000	0.280		0.000	General
1-1AQ	Patch	vvp_0055_61	Endangered	0	no	0.040	0.000	0.000	0.280		0.000	General
1-0EY	Patch	vvp_0055_61	Endangered	0	no	0.130	0.002	0.002	0.400		0.000	General
1-0EZ	Patch	vvp_0055_61	Endangered	0	no	0.130	0.037	0.037	0.340		0.005	General
1-0DF	Patch	vvp_0055_61	Endangered	0	no	0.130	0.025	0.025	0.825		0.004	General
1-5D	Patch	vvp_0132_61	Endangered	0	no	0.260	0.000	0.000	0.430		0.000	General
1-5G	Patch	vvp_0055_61	Endangered	0	no	0.120	0.030	0.030	0.520		0.004	General
1-3BN	Patch	vvp_0055_61	Endangered	0	no	0.150	0.015	0.015	0.437		0.002	General
1-5E	Patch	vvp_0055_61	Endangered	0	no	0.150	0.000	0.000	0.410		0.000	General
1-0DH	Patch	vvp_0055_61	Endangered	0	no	0.290	0.053	0.053	0.830		0.021	General
1-3BP	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.470		0.000	General
1-3BW	Patch	vvp_0055_61	Endangered	0	no	0.160	0.000	0.000	0.920		0.000	General
1-3BY	Patch	vvp_0055_61	Endangered	0	no	0.190	0.000	0.000	0.270		0.000	General
1-5O	Patch	vvp_0055_61	Endangered	0	no	0.080	0.010	0.010	0.460		0.001	General
1-5P	Patch	vvp_0055_61	Endangered	0	no	0.130	0.000	0.000	0.470		0.000	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
1-3CA	Patch	vvp_0132_61	Endangered	0	no	0.130	0.001	0.001	0.460		0.000	General
1-3CB	Patch	vvp_0132_61	Endangered	0	no	0.130	0.000	0.000	0.470		0.000	General
1-0DXc	Patch	vvp_0055_61	Endangered	0	no	0.290	0.000	0.000	0.800		0.000	General
1-0DXb	Patch	vvp_0055_61	Endangered	0	no	0.290	0.001	0.001	0.800		0.000	General
1-0DXa	Patch	vvp_0055_61	Endangered	0	no	0.290	0.001	0.001	0.800		0.000	General
1-0DX	Patch	vvp_0055_61	Endangered	0	no	0.290	0.000	0.000	0.800		0.000	General
1-0DZa	Patch	vvp_0068	Endangered	0	no	0.140	0.000	0.000	0.800		0.000	General
1-0DZ	Patch	vvp_0068	Endangered	0	no	0.140	0.005	0.005	0.800		0.001	General
1-0EA _b	Patch	vvp_0132_61	Endangered	0	no	0.310	0.004	0.004	0.390		0.001	General
1-0EA _a	Patch	vvp_0132_61	Endangered	0	no	0.310	0.048	0.048	0.507		0.017	General
1-0EA	Patch	vvp_0132_61	Endangered	0	no	0.310	0.005	0.005	0.800		0.002	General
1-5Jj	Patch	vvp_0055_61	Endangered	0	no	0.210	0.000	0.000	0.420		0.000	General
1-5Ji	Patch	vvp_0055_61	Endangered	0	no	0.210	0.001	0.001	0.420		0.000	General
1-5Jh	Patch	vvp_0055_61	Endangered	0	no	0.210	0.000	0.000	0.420		0.000	General
1-5Jg	Patch	vvp_0055_61	Endangered	0	no	0.210	0.018	0.018	0.410		0.004	General
1-5Jf	Patch	vvp_0055_61	Endangered	0	no	0.210	0.000	0.000	0.410		0.000	General
1-5Je	Patch	vvp_0055_61	Endangered	0	no	0.210	0.008	0.008	0.410		0.002	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
1-5Jd	Patch	vvp_0055_61	Endangered	0	no	0.210	0.000	0.000	0.450		0.000	General
1-5Jc	Patch	vvp_0055_61	Endangered	0	no	0.210	0.000	0.000	0.450		0.000	General
1-5Jb	Patch	vvp_0055_61	Endangered	0	no	0.210	0.001	0.001	0.430		0.000	General
1-5Ja	Patch	vvp_0055_61	Endangered	0	no	0.210	0.001	0.001	0.430		0.000	General
1-5J	Patch	vvp_0055_61	Endangered	0	no	0.210	0.004	0.004	0.430		0.001	General
1-5lh	Patch	vvp_0055_61	Endangered	0	no	0.160	0.003	0.003	0.370		0.001	General
1-5lg	Patch	vvp_0055_61	Endangered	0	no	0.160	0.000	0.000	0.370		0.000	General
1-5lf	Patch	vvp_0055_61	Endangered	0	no	0.160	0.000	0.000	0.370		0.000	General
1-5le	Patch	vvp_0055_61	Endangered	0	no	0.160	0.001	0.001	0.370		0.000	General
1-5ld	Patch	vvp_0055_61	Endangered	0	no	0.160	0.000	0.000	0.370		0.000	General
1-5lc	Patch	vvp_0055_61	Endangered	0	no	0.160	0.010	0.010	0.420		0.002	General
1-5lb	Patch	vvp_0055_61	Endangered	0	no	0.160	0.002	0.002	0.420		0.000	General
1-5la	Patch	vvp_0055_61	Endangered	0	no	0.160	0.006	0.006	0.420		0.001	General
1-5l	Patch	vvp_0055_61	Endangered	0	no	0.160	0.004	0.004	0.420		0.001	General
1-5Ha	Patch	vvp_0055_61	Endangered	0	no	0.180	0.013	0.013	0.520		0.003	General
1-5H	Patch	vvp_0055_61	Endangered	0	no	0.180	0.016	0.016	0.401		0.003	General
1-0DW e	Patch	vvp_0055_61	Endangered	0	no	0.290	0.000	0.000	0.800		0.000	General
1-0DW d	Patch	vvp_0055_61	Endangered	0	no	0.290	0.001	0.001	0.800		0.000	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
1-0DWc	Patch	vvp_0055_61	Endangered	0	no	0.290	0.009	0.009	0.800		0.004	General
1-0DWb	Patch	vvp_0055_61	Endangered	0	no	0.290	0.004	0.004	0.681		0.001	General
1-0DWa	Patch	vvp_0055_61	Endangered	0	no	0.290	0.003	0.003	0.670		0.001	General
1-0DW	Patch	vvp_0055_61	Endangered	0	no	0.290	0.002	0.002	0.670		0.001	General
1-0DVc	Patch	vvp_0055_61	Endangered	0	no	0.280	0.000	0.000	0.410		0.000	General
1-0DVb	Patch	vvp_0055_61	Endangered	0	no	0.280	0.015	0.015	0.410		0.004	General
1-0DVa	Patch	vvp_0055_61	Endangered	0	no	0.280	0.083	0.083	0.410		0.024	General
1-0DV	Patch	vvp_0055_61	Endangered	0	no	0.280	0.030	0.030	0.630		0.010	General
1-3BO	Patch	vvp_0132_61	Endangered	0	no	0.530	0.002	0.002	0.390		0.001	General
1-5Fc	Patch	vvp_0132_61	Endangered	0	no	0.320	0.010	0.010	0.310		0.003	General
1-5Fb	Patch	vvp_0132_61	Endangered	0	no	0.320	0.005	0.005	0.310		0.002	General
1-5Fa	Patch	vvp_0132_61	Endangered	0	no	0.320	0.061	0.061	0.340		0.020	General
1-5F	Patch	vvp_0132_61	Endangered	0	no	0.320	0.002	0.002	0.340		0.000	General
1-3BT	Patch	vvp_0132_61	Endangered	0	no	0.160	0.006	0.006	0.460		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
1-3BTa	Patch	vvp_0132_61	Endangered	0	no	0.160	0.002	0.002	0.460		0.000	General
1-3BTb	Patch	vvp_0132_61	Endangered	0	no	0.160	0.002	0.002	0.460		0.000	General
1-3BTc	Patch	vvp_0132_61	Endangered	0	no	0.160	0.003	0.003	0.460		0.000	General
1-3BTd	Patch	vvp_0132_61	Endangered	0	no	0.160	0.000	0.000	0.460		0.000	General
1-3BU	Patch	vvp_0132_61	Endangered	0	no	0.160	0.002	0.002	0.940		0.000	General
1-3BUa	Patch	vvp_0132_61	Endangered	0	no	0.160	0.000	0.000	0.940		0.000	General
1-3BV	Patch	vvp_0055_61	Endangered	0	no	0.160	0.001	0.001	0.920		0.000	General
1-3BVa	Patch	vvp_0055_61	Endangered	0	no	0.160	0.000	0.000	0.460		0.000	General
1-5Ld	Patch	vvp_0132_61	Endangered	0	no	0.500	0.000	0.000	0.450		0.000	General
1-5Lc	Patch	vvp_0132_61	Endangered	0	no	0.500	0.008	0.008	0.454		0.004	General
1-5Lb	Patch	vvp_0132_61	Endangered	0	no	0.500	0.003	0.003	0.460		0.002	General
1-5La	Patch	vvp_0132_61	Endangered	0	no	0.500	0.004	0.004	0.850		0.002	General
1-5L	Patch	vvp_0132_61	Endangered	0	no	0.500	0.000	0.000	0.850		0.000	General
1-3BZ	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.470		0.000	General
1-3BZa	Patch	vvp_0132_61	Endangered	0	no	0.530	0.007	0.007	0.463		0.004	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
1-3BZb	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.460		0.000	General
1-3BZc	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.460		0.000	General
1-3BZd	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.460		0.000	General
1-3BZe	Patch	vvp_0132_61	Endangered	0	no	0.530	0.004	0.004	0.460		0.002	General
1-3BZf	Patch	vvp_0132_61	Endangered	0	no	0.530	0.001	0.001	0.460		0.001	General
1-3BZg	Patch	vvp_0132_61	Endangered	0	no	0.530	0.001	0.001	0.460		0.000	General
1-3BZh	Patch	vvp_0132_61	Endangered	0	no	0.530	0.009	0.009	0.460		0.005	General
1-3BZi	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.460		0.000	General
1-3BZj	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.460		0.000	General
1-3BZk	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.460		0.000	General
1-5Ud	Patch	vvp_0132_61	Endangered	0	no	0.040	0.000	0.000	0.460		0.000	General
1-5Uc	Patch	vvp_0132_61	Endangered	0	no	0.040	0.002	0.002	0.460		0.000	General
1-5Ub	Patch	vvp_0132_61	Endangered	0	no	0.040	0.006	0.006	0.850		0.000	General
1-5Ua	Patch	vvp_0132_61	Endangered	0	no	0.040	0.000	0.000	0.850		0.000	General
1-5U	Patch	vvp_0132_61	Endangered	0	no	0.040	0.000	0.000	0.850		0.000	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
1-5Ka	Patch	vvp_0132_61	Endangered	0	no	0.280	0.010	0.010	0.747		0.004	General
1-5K	Patch	vvp_0132_61	Endangered	0	no	0.280	0.029	0.029	0.838		0.011	General
1-3BOa	Patch	vvp_0132_61	Endangered	0	no	0.530	0.157	0.157	0.644		0.103	General
1-3BOb	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.940		0.000	General
1-3BOc	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.940		0.000	General
1-3BOd	Patch	vvp_0132_61	Endangered	0	no	0.530	0.001	0.001	0.940		0.000	General
1-3BOe	Patch	vvp_0132_61	Endangered	0	no	0.530	0.001	0.001	0.940		0.001	General
1-3BOf	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.940		0.000	General
1-3BOg	Patch	vvp_0132_61	Endangered	0	no	0.530	0.003	0.003	0.571		0.002	General
1-3BOh	Patch	vvp_0132_61	Endangered	0	no	0.530	0.000	0.000	0.460		0.000	General
1-3BOi	Patch	vvp_0132_61	Endangered	0	no	0.530	0.195	0.195	0.520		0.118	General
2-1F	Patch	vvp_0055_61	Endangered	1	no	0.560	0.015	0.015	0.520		0.009	General
2-1G	Patch	vvp_0055_61	Endangered	3	no	0.540	0.123	0.123	0.520		0.076	General
2-1I	Patch	vvp_0055_61	Endangered	1	no	0.330	0.036	0.036	0.466		0.013	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
2-1L	Patch	vvp_0055_61	Endangered	0	no	0.210	0.007	0.007	0.830		0.002	General
1-1U	Patch	vvp_0055_61	Endangered	0	no	0.100	0.001	0.001	0.340		0.000	General
1-3AA	Patch	vvp_0055_61	Endangered	0	no	0.210	0.009	0.009	0.350		0.002	General
1-0XAT	Patch	vvp_0653	Endangered	0	no	0.440	0.023	0.023	0.450		0.011	General
1-3AF	Patch	vvp_0125	Endangered	0	no	0.230	0.044	0.044	0.300		0.010	General
1-0BY	Patch	vvp_0068	Endangered	0	no	0.210	0.026	0.026	0.300		0.005	General
1-0XA X	Patch	vvp_0653	Endangered	0	no	0.500	0.006	0.006	0.440		0.004	General
1-0XA Y	Patch	vvp_0653	Endangered	0	no	0.500	0.008	0.008	0.440		0.004	General
1-3AI	Patch	vvp_0125	Endangered	0	no	0.230	0.027	0.027	0.290		0.006	General
1-3AJ	Patch	vvp_0125	Endangered	0	no	0.230	0.069	0.069	0.280		0.015	General
1-0XDL	Patch	vvp_0125	Endangered	0	no	0.430	0.234	0.234	0.440		0.109	General
1-0XD K	Patch	vvp_0125	Endangered	0	no	0.320	0.004	0.004	0.440		0.002	General
1-1AD	Patch	vvp_0125	Endangered	0	no	0.390	0.040	0.040	0.460		0.017	General
1-0CO	Patch	vvp_0125	Endangered	0	no	0.390	0.010	0.010	0.460		0.004	General
1-3AK	Patch	vvp_0132_61	Endangered	0	no	0.230	0.104	0.104	0.281		0.023	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
1-0XB G	Patch	vvp_0125	Endangered	0	no	0.150	0.141	0.141	0.345		0.021	General
1-0XBF	Patch	vvp_0125	Endangered	0	no	0.200	0.004	0.004	0.340		0.001	General
1-0XB H	Patch	vvp_0125	Endangered	0	no	0.180	0.011	0.011	0.350		0.002	General
1-0FI	Patch	vvp_0125	Endangered	0	no	0.240	0.003	0.003	0.290		0.001	General
1-0BW	Patch	vvp_0068	Endangered	0	no	0.180	0.004	0.004	0.320		0.001	General
1-0BX	Patch	vvp_0068	Endangered	0	no	0.180	0.017	0.017	0.320		0.003	General
1-3DE	Patch	vvp_0132_61	Endangered	0	no	0.150	0.003	0.003	0.310		0.000	General
1-3DF	Patch	vvp_0055_61	Endangered	0	no	0.190	0.006	0.006	0.280		0.001	General
1-0XD E	Patch	vvp_0647	Endangered	0	no	0.400	0.016	0.016	0.440		0.007	General
1-0CN	Patch	vvp_0055_61	Endangered	2	no	0.240	0.089	0.089	0.390		0.022	General
1-0CN a	Patch	vvp_0055_61	Endangered	2	no	0.240	0.086	0.086	0.390		0.022	General
1-3AHc	Patch	vvp_0125	Endangered	0	no	0.300	0.079	0.079	0.490		0.027	General
1-3AHb	Patch	vvp_0125	Endangered	0	no	0.300	0.176	0.176	0.490		0.059	General
1-3AHa	Patch	vvp_0125	Endangered	0	no	0.300	0.245	0.245	0.539		0.085	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
1-3AH	Patch	vvp_0125	Endangered	0	no	0.300	0.669	0.669	0.508		0.227	General
1-0XB A	Patch	vvp_0125	Endangered	0	no	0.380	0.016	0.016	0.310		0.006	General
1-0XB Aa	Patch	vvp_0125	Endangered	0	no	0.380	0.011	0.011	0.313		0.004	General
1-0XB Eb	Patch	vvp_0125	Endangered	0	no	0.380	0.002	0.002	0.390		0.001	General
1-0XB Ea	Patch	vvp_0125	Endangered	0	no	0.380	0.031	0.031	0.310		0.012	General
1-0XB E	Patch	vvp_0125	Endangered	0	no	0.380	0.004	0.004	0.310		0.001	General
1-0XA Ha	Patch	vvp_0125	Endangered	0	no	0.380	2.722	2.722	0.418		1.100	General
1-0XA H	Patch	vvp_0125	Endangered	0	no	0.380	1.087	1.087	0.417		0.439	General
1-2822 7Wet land	Patch	vvp_0125	Endangered	0	no	0.200	0.139	0.139	0.300		0.027	General
1-2822 4Wet land	Patch	vvp_0125	Endangered	0	no	0.200	0.142	0.142	0.350		0.029	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
1-2822 4Wet land A	Patch	vvp_0125	Endangered	0	no	0.200	0.161	0.161	0.336		0.032	General
1-3DD	Patch	vvp_0055_61	Endangered	0	no	0.150	0.001	0.001	0.520		0.000	General
1-3DC a	Patch	vvp_0055_61	Endangered	0	no	0.130	0.000	0.000	0.530		0.000	General
1-3DC b	Patch	vvp_0055_61	Endangered	0	no	0.130	0.034	0.034	0.420		0.005	General
1-1M	Patch	vvp_0055_61	Endangered	0	no	0.080	0.007	0.007	0.530		0.001	General
1-1Ma	Patch	vvp_0055_61	Endangered	0	no	0.080	0.005	0.005	0.530		0.000	General
1-1Mb	Patch	vvp_0055_61	Endangered	0	no	0.080	0.031	0.031	0.530		0.003	General
1-3J	Patch	vvp_0055_61	Endangered	0	no	0.130	0.011	0.011	0.340		0.001	General
1-3G	Patch	vvp_0055_61	Endangered	0	no	0.280	0.023	0.023	0.340		0.006	General
1-4A	Patch	vvp_0132_61	Endangered	0	no	0.160	0.021	0.021	0.341		0.003	General
1-1AA	Patch	vvp_0132_61	Endangered	0	no	0.040	0.005	0.005	0.320		0.000	General
1-3D	Patch	vvp_0055_61	Endangered	0	no	0.170	0.019	0.019	0.410		0.003	General
1-3Ia	Patch	vvp_0055_61	Endangered	0	no	0.200	0.076	0.076	0.420		0.016	General
1-3I	Patch	vvp_0055_61	Endangered	0	no	0.200	0.002	0.002	0.420		0.000	General
1-3M	Patch	vvp_0055_61	Endangered	0	no	0.150	0.011	0.011	0.590		0.002	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
1-0DFa	Patch	vvp_0055_61	Endangered	0	no	0.130	0.012	0.012	0.425		0.002	General
1-3R	Patch	vvp_0132_61	Endangered	0	no	0.110	0.047	0.047	0.790		0.007	General
1-4Aa	Patch	vvp_0132_61	Endangered	0	no	0.160	0.010	0.010	0.303		0.002	General
1-1W	Patch	vvp_0132_61	Endangered	0	no	0.130	0.025	0.025	0.790		0.004	General
1-3L	Patch	vvp_0055_61	Endangered	0	no	0.110	0.006	0.006	0.350		0.001	General
1-0XAJ	Patch	vvp_0125	Endangered	0	no	0.350	0.008	0.008	0.340		0.003	General
1-3Ga	Patch	vvp_0055_61	Endangered	0	no	0.280	0.002	0.002	0.340		0.001	General
1-52	Scattered Tree	vvp_0055_61	Endangered	1	no	0.200	0.070	0.070	0.400		0.015	General
1-53	Scattered Tree	vvp_0055_61	Endangered	1	no	0.200	0.070	0.070	0.400		0.015	General
1-54	Scattered Tree	vvp_0055_61	Endangered	1	no	0.200	0.070	0.070	0.430		0.015	General
1-61	Scattered Tree	vvp_0055_61	Endangered	1	no	0.200	0.070	0.070	0.450		0.015	General
1-29	Scattered Tree	vvp_0055_61	Endangered	0	no	0.200	0.031	0.030	0.440		0.007	General
1-4G	Patch	vvp_0132_61	Endangered	0	no	0.280	0.004	0.004	0.410		0.001	General
1-25	Scattered Tree	vvp_0055_61	Endangered	0	no	0.200	0.031	0.031	0.310		0.006	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	<i>Carex tasmanica</i>	500650	Vulnerable	Dispersed	Habitat importance map	0.0006
Wind-blown Tussock-grass	<i>Poa physocline</i>	507791	Endangered	Dispersed	Top ranking map	0.0004
Fragrant Leek-orchid	<i>Prasophyllum suaveolens</i>	504567	Endangered	Dispersed	Top ranking map	0.0003
Yarra Pygmy Perch	<i>Nannoperca obscura</i>	4882	Vulnerable	Dispersed	Habitat importance map	0.0002
Salt Blown-grass	<i>Lachnagrostis robusta</i>	504223	Rare	Dispersed	Habitat importance map	0.0002
Clumping Golden Moths	<i>Diuris gregaria</i>	504887	Endangered	Dispersed	Habitat importance map	0.0002
Fragrant Leek-orchid	<i>Prasophyllum suaveolens</i>	504567	Endangered	Dispersed	Habitat importance map	0.0002
Button Wrinklewort	<i>Rutidosis leptorhynchoides</i>	502982	Endangered	Dispersed	Habitat importance map	0.0001
Large-headed Fireweed	<i>Senecio macrocarpus</i>	503116	Endangered	Dispersed	Habitat importance map	0.0001
Plump Swamp Wallaby-grass	<i>Amphibromus pithogastrus</i>	503624	Endangered	Dispersed	Habitat importance map	0.0001
Brackish Plains Buttercup	<i>Ranunculus diminutus</i>	504314	Rare	Dispersed	Habitat importance map	0.0001
Wind-blown Tussock-grass	<i>Poa physocline</i>	507791	Endangered	Dispersed	Habitat importance map	0.0001
Curly Sedge	<i>Carex tasmanica</i>	500650	Vulnerable	Dispersed	Top ranking map	0.0001
Wavy Swamp Wallaby-grass	<i>Amphibromus sinuatus</i>	503625	Vulnerable	Dispersed	Habitat importance map	0.0001
Purple Blown-grass	<i>Lachnagrostis punicea</i> subsp. <i>punicea</i>	504206	Rare	Dispersed	Habitat importance map	0.0001
Candy Spider-orchid	<i>Caladenia versicolor</i>	500522	Endangered	Dispersed	Habitat importance map	0.0001
Plains Yam-daisy	<i>Microseris scapigera</i> s.s.	504657	Vulnerable	Dispersed	Habitat importance map	0.0001
Matted Flax-lily	<i>Dianella amoena</i>	505084	Endangered	Dispersed	Habitat importance map	0.0001

Pale-flower Crane's-bill	<i>Geranium</i> sp. 3	505344	Rare	Dispersed	Habitat importance map	0.0001
Snowy Mint-bush	<i>Prostanthera nivea</i> var. <i>nivea</i>	502746	Rare	Dispersed	Habitat importance map	0.0001
Purple Blown-grass	<i>Lachnagrostis punicea</i> subsp. <i>filifolia</i>	504222	Rare	Dispersed	Habitat importance map	0.0001
Pale Swamp Everlasting	<i>Coronidium gunnianum</i>	504655	Vulnerable	Dispersed	Habitat importance map	0.0001
Flat Bluebell	<i>Wahlenbergia planiflora</i> subsp. <i>planiflora</i>	504064	Vulnerable	Dispersed	Habitat importance map	0.0001
White Sunray	<i>Leucochrysum albicans</i> subsp. <i>tricolor</i>	504581	Endangered	Dispersed	Habitat importance map	0.0001
Swamp Flax-lily	<i>Dianella callicarpa</i>	505086	Rare	Dispersed	Habitat importance map	0.0001
Purple Diuris	<i>Diuris punctata</i>	501084	Vulnerable	Dispersed	Habitat importance map	0.0001
Arching Flax-lily	<i>Dianella</i> sp. aff. <i>longifolia</i> (Benambra)	505560	Vulnerable	Dispersed	Habitat importance map	0.0001
Large White Spider-orchid	<i>Caladenia venusta</i>	500533	Rare	Dispersed	Habitat importance map	0.0000
Swamp Everlasting	<i>Xerochrysum palustre</i>	503763	Vulnerable	Dispersed	Habitat importance map	0.0000
Small Milkwort	<i>Comesperma polygaloides</i>	500798	Vulnerable	Dispersed	Habitat importance map	0.0000
Southern Pipewort	<i>Eriocaulon australasicum</i>	501217	Endangered	Dispersed	Habitat importance map	0.0000
Leafy Twig-sedge	<i>Cladium procerum</i>	500786	Rare	Dispersed	Habitat importance map	0.0000
Southern Bent-wing Bat	<i>Miniopterus schreibersii bassanii</i>	61343	Critically endangered	Dispersed	Habitat importance map	0.0000
Striped Legless Lizard	<i>Delma impar</i>	12159	Endangered	Dispersed	Habitat importance map	0.0000
Golden Cowslips	<i>Diuris behrii</i>	501061	Vulnerable	Dispersed	Habitat importance map	0.0000
Basalt Sun-orchid	<i>Thelymitra gregaria</i>	504019	Endangered	Dispersed	Habitat importance map	0.0000
Small Scurf-pea	<i>Cullen parvum</i>	502773	Endangered	Dispersed	Habitat importance map	0.0000
Hairy Tails	<i>Ptilotus erubescens</i>	502825	Vulnerable	Dispersed	Habitat importance map	0.0000
Clover Glycine	<i>Glycine latrobeana</i>	501456	Vulnerable	Dispersed	Habitat importance map	0.0000
Melbourne Yellow-gum	<i>Eucalyptus leucoxylon</i> subsp. <i>connata</i>	504484	Vulnerable	Dispersed	Habitat importance map	0.0000

Small-leaf Wax-flower	<i>Philotheaca difformis</i> subsp. <i>difformis</i>	501223	Endangered	Dispersed	Habitat importance map	0.0000
Bog Gum	<i>Eucalyptus kitsoniana</i>	501290	Rare	Dispersed	Habitat importance map	0.0000
Tough Scurf-pea	<i>Cullen tenax</i>	502776	Endangered	Dispersed	Habitat importance map	0.0000
Fine-hairy Spear-grass	<i>Austrostipa puberula</i>	503988	Rare	Dispersed	Habitat importance map	0.0000
Common Pipewort	<i>Eriocaulon scariosum</i>	501218	Rare	Dispersed	Habitat importance map	0.0000
Blotched Sun-orchid	<i>Thelymitra benthamiana</i>	503369	Vulnerable	Dispersed	Habitat importance map	0.0000
Rock Wattle	<i>Acacia rupicola</i>	500082	Rare	Dispersed	Habitat importance map	0.0000
Grampians Thryptomene	<i>Thryptomene calycina</i>	503395	Rare	Dispersed	Habitat importance map	0.0000
Brolga	<i>Grus rubicunda</i>	10177	Vulnerable	Dispersed	Habitat importance map ; special site	0.0000
Casterton Wattle	<i>Acacia exudans</i>	505137	Vulnerable	Dispersed	Habitat importance map	0.0000
Small-flower Mat-rush	<i>Lomandra micrantha</i> subsp. <i>tuberculata</i>	504711	Rare	Dispersed	Habitat importance map	0.0000
Gull-billed Tern	<i>Gelochelidon nilotica macrotarsa</i>	10111	Endangered	Dispersed	Habitat importance map	0.0000
Fringed Sun-orchid	<i>Thelymitra luteocilium</i>	503375	Rare	Dispersed	Habitat importance map	0.0000
Golden Sun Moth	<i>Synemon plana</i>	15021	Critically endangered	Dispersed	Habitat importance map	0.0000
Branching Groundsel	<i>Senecio cunninghamii</i> var. <i>cunninghamii</i>	503104	Rare	Dispersed	Habitat importance map	0.0000
Growling Grass Frog	<i>Litoria raniformis</i>	13207	Endangered	Dispersed	Habitat importance map	0.0000
Creeping Rush	<i>Juncus revolutus</i>	501839	Rare	Dispersed	Habitat importance map	0.0000
Metallic Sun-orchid	<i>Thelymitra epipactoides</i>	503367	Endangered	Dispersed	Habitat importance map	0.0000
Salt Paperbark	<i>Melaleuca halimaturorum</i>	502149	Vulnerable	Dispersed	Habitat importance map	0.0000
Grey Billy-buttons	<i>Craspedia canens</i>	504643	Endangered	Dispersed	Habitat importance map	0.0000
Branching Scale-rush	<i>Sporadanthus tasmanicus</i>	501969	Rare	Dispersed	Habitat importance map	0.0000
Green Leek-orchid	<i>Prasophyllum lindleyanum</i>	502702	Vulnerable	Dispersed	Habitat importance map	0.0000
Dwarf Brooklime	<i>Gratiola pumilo</i>	503753	Rare	Dispersed	Habitat importance map	0.0000

Southern Swainson-pea	<i>Swainsona behriana</i>	504944	Rare	Dispersed	Habitat importance map	0.0000
Common Beard-heath	<i>Leucopogon virgatus var. brevifolius</i>	504392	Rare	Dispersed	Habitat importance map	0.0000
Wimmera Scentbark	<i>Eucalyptus sabulosa</i>	505174	Rare	Dispersed	Habitat importance map	0.0000
Quinetia	<i>Quinetia urvillei</i>	502885	Rare	Dispersed	Habitat importance map	0.0000
Spiny Rice-flower	<i>Pimelea spinescens subsp. spinescens</i>	504823	Endangered	Dispersed	Habitat importance map	0.0000
Tiny Bog-sedge	<i>Schoenus nanus</i>	503050	Rare	Dispersed	Habitat importance map	0.0000
Lewin's Rail	<i>Lewinia pectoralis pectoralis</i>	10045	Vulnerable	Dispersed	Habitat importance map	0.0000
Yarra Gum	<i>Eucalyptus yarraensis</i>	501326	Rare	Dispersed	Habitat importance map	0.0000
Slender Mint-bush	<i>Prostanthera saxicola var. bracteolata</i>	502750	Rare	Dispersed	Habitat importance map	0.0000
Tufted Grass-tree	<i>Xanthorrhoea caespitosa</i>	505088	Rare	Dispersed	Habitat importance map	0.0000
Dwarf Boronia	<i>Boronia nana var. pubescens</i>	504278	Rare	Dispersed	Habitat importance map	0.0000
Black Falcon	<i>Falco subniger</i>	10238	Vulnerable	Dispersed	Habitat importance map	0.0000
Forked Rice-flower	<i>Pimelea hewardiana</i>	502522	Rare	Dispersed	Habitat importance map	0.0000
Australasian Bittern	<i>Botaurus poiciloptilus</i>	10197	Endangered	Dispersed	Habitat importance map	0.0000
Little Egret	<i>Egretta garzetta nigripes</i>	10185	Endangered	Dispersed	Habitat importance map	0.0000
Button Immortelle	<i>Leptorhynchos waitzia</i>	501949	Vulnerable	Dispersed	Habitat importance map	0.0000
Freckled Duck	<i>Stictonetta naevosa</i>	10214	Endangered	Dispersed	Habitat importance map	0.0000
Blue-billed Duck	<i>Oxyura australis</i>	10216	Endangered	Dispersed	Habitat importance map	0.0000
Eastern Great Egret	<i>Ardea modesta</i>	10187	Vulnerable	Dispersed	Habitat importance map	0.0000
Intermediate Egret	<i>Ardea intermedia</i>	10186	Endangered	Dispersed	Habitat importance map	0.0000
Grey Goshawk	<i>Accipiter novaehollandiae novaehollandiae</i>	10220	Vulnerable	Dispersed	Habitat importance map	0.0000
Musk Duck	<i>Biziura lobata</i>	10217	Vulnerable	Dispersed	Habitat importance map	0.0000
Western Peppermint	<i>Eucalyptus falciformis</i>	505358	Rare	Dispersed	Habitat importance map	0.0000

Buloke	<i>Allocasuarina luehmannii</i>	500678	Endangered	Dispersed	Habitat importance map	0.0000
Hardhead	<i>Aythya australis</i>	10215	Vulnerable	Dispersed	Habitat importance map	0.0000
Australasian Shoveler	<i>Anas rhynchos</i>	10212	Vulnerable	Dispersed	Habitat importance map	0.0000
Chestnut-rumped Heathwren	<i>Calamanthus pyrrhopygus</i>	10498	Vulnerable	Dispersed	Habitat importance map	0.0000
Tussock Skink	<i>Pseudemoia pagenstecheri</i>	12993	Vulnerable	Dispersed	Habitat importance map	0.0000
Grassland Earless Dragon	<i>Tympanocryptis pinguicolla</i>	12922	Critically endangered	Dispersed	Habitat importance map	0.0000
Elegant Parrot	<i>Neophema elegans</i>	10307	Vulnerable	Dispersed	Habitat importance map	0.0000
Salt Lawrencia	<i>Lawrencia spicata</i>	501888	Rare	Dispersed	Habitat importance map	0.0000
Showy Lobelia	<i>Lobelia beaugleholei</i>	502733	Rare	Dispersed	Habitat importance map	0.0000
Australian Painted Snipe	<i>Rostratula australis</i>	10170	Critically endangered	Dispersed	Habitat importance map	0.0000
Australian Little Bittern	<i>Ixobrychus dubius</i>	10195	Endangered	Dispersed	Habitat importance map	0.0000
Glossy Grass Skink	<i>Pseudemoia rawlinsoni</i>	12683	Vulnerable	Dispersed	Habitat importance map	0.0000

Habitat group

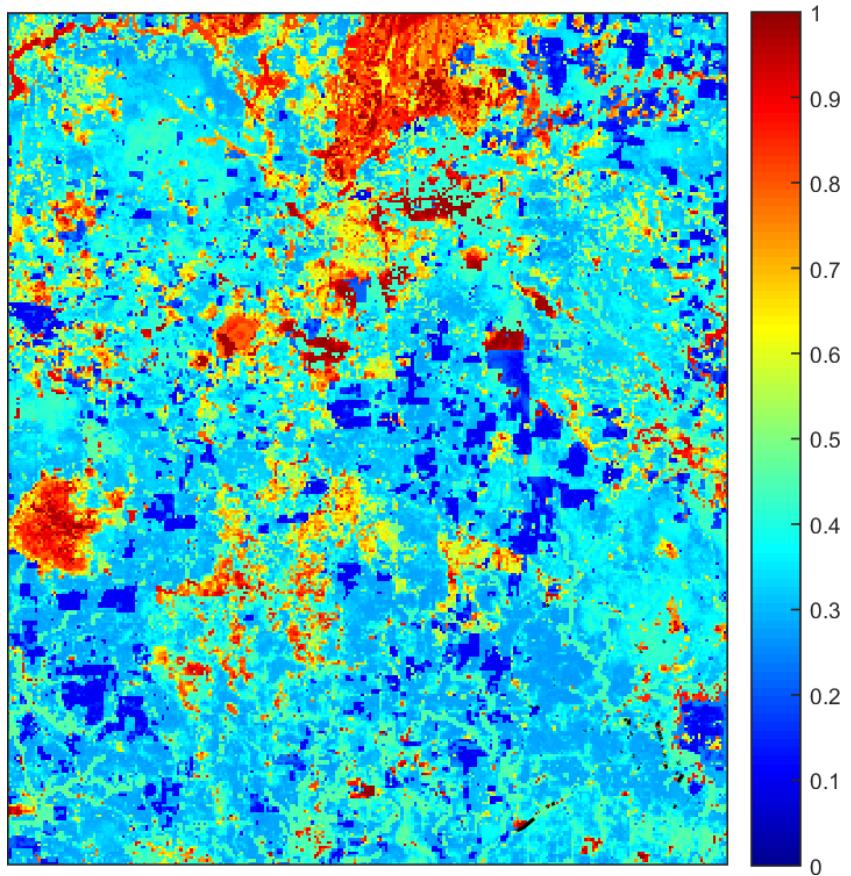
- Highly localised habitat means there is 2000 hectares or less mapped habitat for the species
- Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species

Habitat impacted

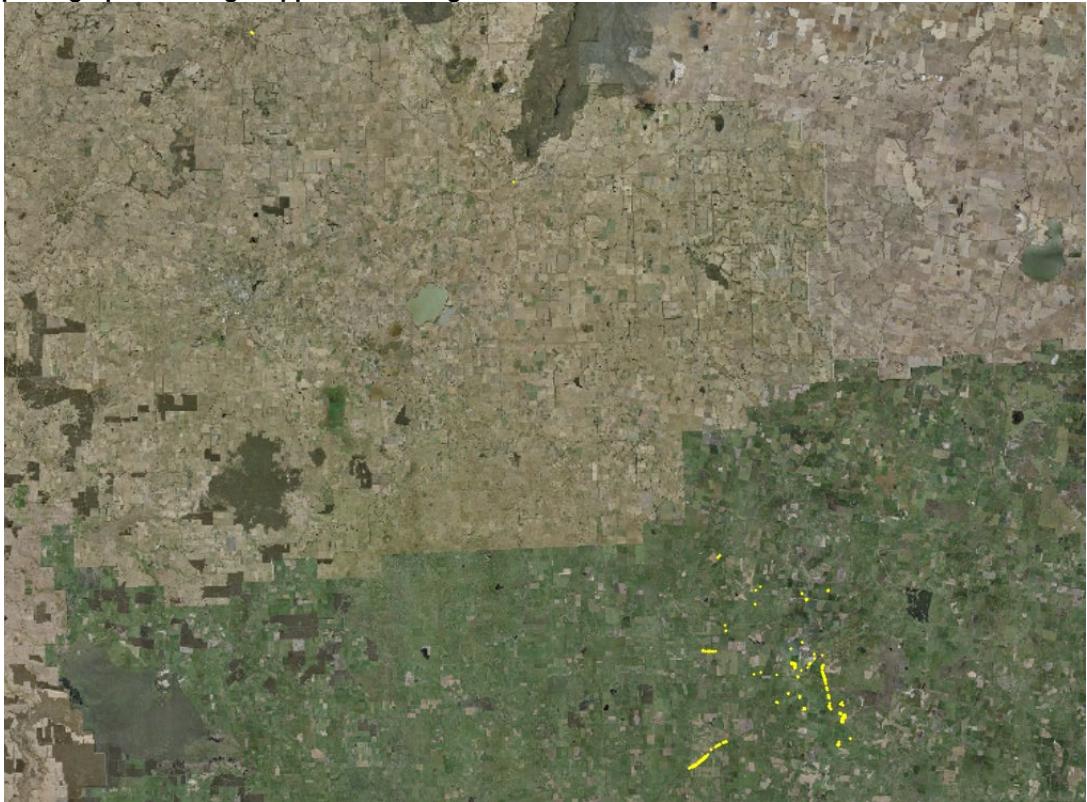
- Habitat importance maps are the maps defined in the Guidelines that include all the mapped habitat for a rare or threatened species
- Top ranking maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat, developed from the highest habitat importance 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

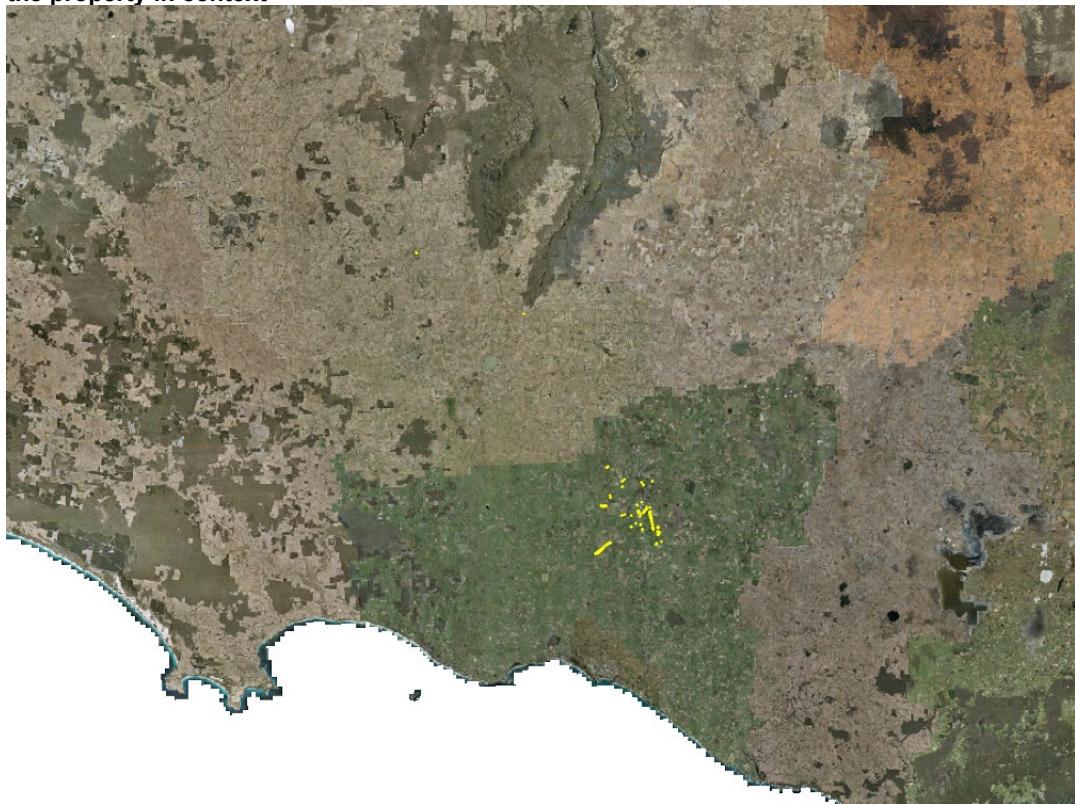
2. Strategic biodiversity values map



3. Aerial photograph showing mapped native vegetation



4. Map of the property in context



Yellow boundaries denote areas of proposed native vegetation removal.

Appendix 7: Evidence that native vegetation offsets are available

Report of available native vegetation credits



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: 17/12/2025 05:09

Report ID: 33399

What was searched for?

General offset

General habitat units	Strategic biodiversity value	Large trees	Vicinity (Catchment Management Authority or Municipal district)		
2.918	0.349	8	CMA	Glenelg Hopkins	
			or LGA	Moyne Shire	
			or LGA	Southern Grampians Shire	

Details of available native vegetation credits on 17 December 2025 05:09

These sites meet your requirements for general offsets.

Credit Site ID	GHU	LT	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
VC_CFL-3727_01	12.307	24	Glenelg Hopkins	Ararat Rural City	Yes	Yes	No	VegLink
VC_CFL-3763_01	3.246	266	Glenelg Hopkins	Glenelg Shire	Yes	Yes	No	VegLink
VC_CFL-3814_01	11.889	517	Glenelg Hopkins	Southern Grampians Shire	Yes	Yes	No	VegLink
VC_TFN-C2046_01	6.663	1441	Glenelg Hopkins	Southern Grampians Shire	Yes	Yes	No	Ecocentric, Ethos, VegLink

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

Credit Site ID	GHU	LT	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
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	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
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There are no potential sites listed in the Native Vegetation Credit Register that meet your offset requirements.

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
Fully traded				
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@deeca.vic.gov.au	www.environment.vic.gov.au/native-vegetation
Ecocentric	Ecocentric Environmental Consulting	0410 564 139	ecocentric@me.com	Not available
Ethos	Ethos NRM Pty Ltd	(03) 5153 0037	offsets@ethosnrm.com.au	www.ethosnrm.com.au
IDES	ID Ecological Management	(03) 9437 0555		www.idecological.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.vic.gov.au	www.yarraranges.vic.gov.au

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

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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

Report of available native vegetation credits

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: 17/12/2025 05:11

Report ID: 33401

What was searched for?

General offset

General habitat units	Strategic biodiversity value	Large trees	Vicinity (Catchment Management Authority or Municipal district)		
0.101	0.417	5	CMA	Glenelg Hopkins	
			or LGA	Moyne Shire	
			or LGA	Southern Grampians Shire	

Details of available native vegetation credits on 17 December 2025 05:11

These sites meet your requirements for general offsets.

Credit Site ID	GHU	LT	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
BBA-2467	0.236	11	Glenelg Hopkins	Glenelg Shire	No	Yes	No	Contact NVOR
BBA-3027	1.231	267	Glenelg Hopkins	Pyrenees Shire	Yes	Yes	No	VegLink
TFN-C0543	0.325	7	Glenelg Hopkins	Southern Grampians Shire	No	Yes	No	Bio Offsets
VC_CFL-3693_01	2.179	600	Glenelg Hopkins	Ararat Rural City	Yes	Yes	No	VegLink
VC_CFL-3727_01	12.307	24	Glenelg Hopkins	Ararat Rural City	Yes	Yes	No	VegLink
VC_CFL-3763_01	3.246	266	Glenelg Hopkins	Glenelg Shire	Yes	Yes	No	VegLink
VC_CFL-3814_01	11.889	517	Glenelg Hopkins	Southern Grampians Shire	Yes	Yes	No	VegLink
VC_TFN-C2046_01	6.663	1441	Glenelg Hopkins	Southern Grampians Shire	Yes	Yes	No	Ecocentric, Ethos, VegLink

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

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

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	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
----------------	-----	----	-----	-----	------------	--------	-------------	-----------

There are no potential sites listed in the Native Vegetation Credit Register that meet your offset requirements.

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.

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Broker Abbreviation	Broker Name	Phone	Email	Website
Fully traded				
Abzeco	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@deeca.vic.gov.au	www.environment.vic.gov.au/native-vegetation
Ecocentric	Ecocentric Environmental Consulting	0410 564 139	ecocentric@me.com	Not available
Ethos	Ethos NRM Pty Ltd	(03) 5153 0037	offsets@ethosnrm.com.au	www.ethosnrm.com.au
IDES	ID Ecological Management	(03) 9437 0555		www.idecological.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.vic.gov.au	www.yarraranges.vic.gov.au

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

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Appendix 8: Terrestrial vertebrate fauna species recorded or likely to occur on the Hexham Wind Farm site.

Common name	Scientific name	EPBC-T	EPBC-M	FFG	Recorded
Birds					
Australasian Grebe	<i>Tachybaptus novaehollandiae</i>				X
Australasian Pipit	<i>Anthus novaeseelandiae</i>				X
Australasian Shoveler	<i>Spatula rhynchos</i>			VU	X
Australian Bustard	<i>Ardeotis australis</i>			CR	
Australian Hobby	<i>Falco longipennis</i>				X
Australian Magpie	<i>Cracticus tibicen</i>				X
Australian Pelican	<i>Pelecanus conspicillatus</i>				X
Australian Raven	<i>Corvus coronoides</i>				X
Australian Reed-Warbler	<i>Acrocephalus australis</i>				X
Australian Shelduck	<i>Tadorna tadornoides</i>				X
Australian Spotted Crake	<i>Porzana fluminea</i>				
Australian White Ibis	<i>Threskiornis molucca</i>				X
Australian Wood Duck	<i>Chenonetta jubata</i>				X
Banded Lapwing	<i>Vanellus tricolor</i>				X
Banded Stilt	<i>Cladorhynchus leucocephalus</i>				
Barn Owl	<i>Tyto alba</i>				
Black Falcon	<i>Falco subniger</i>			CR	X
Black Kite	<i>Milvus migrans</i>				X
Black Swan	<i>Cygnus atratus</i>				X
Black-faced Cuckoo-shrike	<i>Coracina novaehollandiae</i>				X
Black-fronted Dotterel	<i>Elseyornis melanops</i>				X
Black-shouldered Kite	<i>Elanus axillaris</i>				X
Black-tailed Native-hen	<i>Tribonyx ventralis</i>				
Blue-billed Duck	<i>Oxyura australis</i>			VU	X
Blue-winged Parrot	<i>Neophema chrysostoma</i>	EN			X
Brolga	<i>Antigone rubicunda</i>			EN	X
Brown Falcon	<i>Falco berigora</i>				X

Common name	Scientific name	EPBC-T	EPBC-M	FFG	Recorded
Brown Goshawk	<i>Accipiter fasciatus</i>				X
Brown Songlark	<i>Cincloramphus cruralis</i>				X
Brown Thornbill	<i>Acanthiza pusilla</i>				X
Brown-headed Honeyeater	<i>Melithreptus brevirostris</i>				X
Buff-rumped Thornbill	<i>Acanthiza reguloides</i>				X
Chestnut Teal	<i>Anas castanea</i>				X
Collared Sparrowhawk	<i>Accipiter cirrhocephalus</i>				X
Common Blackbird	<i>Turdus merula</i>				X
Common Bronzewing	<i>Phaps chalcoptera</i>				
Common Greenshank	<i>Tringa nebularia</i>		M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)	EN	X
Common Starling	<i>Sturnus vulgaris</i>				X
Crested Pigeon	<i>Ocyphaps lophotes</i>				X
Crimson Rosella	<i>Platycercus elegans</i>				X
Curlew Sandpiper	<i>Calidris ferruginea</i>	CR	M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)	CR	
Double-banded Plover	<i>Charadrius bicinctus</i>		M (Bonn A2H)		X
Dusky Moorhen	<i>Gallinula tenebrosa</i>				X
Dusky Woodswallow	<i>Artamus cyanopterus</i>				
Eastern Cattle Egret	<i>Bubulcus coromandus</i>				
Eastern Rosella	<i>Platycercus eximius</i>				X
Eastern Spinebill	<i>Acanthorhynchus tenuirostris</i>				X
Eastern Yellow Robin	<i>Eopsaltria australis</i>				
Emu	<i>Dromaius novaehollandiae</i>				X
Eurasian Coot	<i>Fulica atra</i>				X
European Goldfinch	<i>Carduelis carduelis</i>				X

Common name	Scientific name	EPBC-T	EPBC-M	FFG	Recorded
European Greenfinch	<i>Chloris chloris</i>				
European Skylark	<i>Alauda arvensis</i>				X
Fairy Martin	<i>Petrochelidon ariel</i>				X
Flame Robin	<i>Petroica phoenicea</i>				X
Forest Raven	<i>Corvus tasmanicus</i>				X
Fork-tailed Swift	<i>Apus pacificus</i>		M (CAMBA, ROKAMBA, JAMBA)		
Galah	<i>Eolophus roseicapilla</i>				X
Gang-gang Cockatoo	<i>Callocephalon fimbriatum</i>	EN			
Golden Whistler	<i>Pachycephala pectoralis</i>				X
Golden-headed Cisticola	<i>Cisticola exilis</i>				X
Great Cormorant	<i>Phalacrocorax carbo</i>				
Great Crested Grebe	<i>Podiceps cristatus</i>				X
Great Egret	<i>Ardea alba</i>			VU	X
Grey Butcherbird	<i>Cracticus torquatus</i>				X
Grey Currawong	<i>Strepera versicolor</i>				X
Grey Fantail	<i>Rhipidura albiscapa</i>				X
Grey Shrike-thrush	<i>Colluricincla harmonica</i>				X
Grey Teal	<i>Anas gracilis</i>				X
Hardhead	<i>Aythya australis</i>				X
Hoary-headed Grebe	<i>Poliocephalus poliocephalus</i>				X
Horsfield's Bronze-Cuckoo	<i>Chrysococcyx basalis</i>				
Horsfield's Bushlark	<i>Mirafra javanica</i>				
House Sparrow	<i>Passer domesticus</i>				X
Jacky Winter	<i>Microeca fascinans</i>				
Latham's Snipe	<i>Gallinago hardwickii</i>		M (Bonn A2H, ROKAMBA, JAMBA)		X

Common name	Scientific name	EPBC-T	EPBC-M	FFG	Recorded
Laughing Kookaburra	<i>Dacelo novaeguineae</i>				X
Lewin's Honeyeater	<i>Meliphaga lewinii</i>				
Lewin's Rail	<i>Lewinia pectoralis</i>			VU	X
Little Black Cormorant	<i>Phalacrocorax sulcirostris</i>				X
Little Corella	<i>Cacatua sanguinea</i>				X
Little Eagle	<i>Hieraetus morphnoides</i>			VU	X
Little Egret	<i>Egretta garzetta</i>			EN	X
Little Grassbird	<i>Poodytes gramineus</i>				X
Little Lorikeet	<i>Glossopsitta pusilla</i>				X
Little Pied Cormorant	<i>Microcarbo melanoleucos</i>				X
Little Raven	<i>Corvus mellori</i>				X
Little Stint	<i>Calidris minuta</i>				
Little Wattlebird	<i>Anthochaera chrysoptera</i>				
Long-billed Corella	<i>Cacatua tenuirostris</i>				X
Magpie Goose	<i>Anseranas semipalmata</i>			VU	
Magpie-lark	<i>Grallina cyanoleuca</i>				X
Masked Lapwing	<i>Vanellus miles</i>				X
Masked Woodswallow	<i>Artamus personatus</i>				X
Musk Duck	<i>Biziura lobata</i>			VU	X
Musk Lorikeet	<i>Glossopsitta concinna</i>				X
Nankeen Kestrel	<i>Falco cenchroides</i>				X
Nankeen Night Heron	<i>Nycticorax caledonicus</i>				
New Holland Honeyeater	<i>Phylidonyris novaehollandiae</i>				X
Noisy Miner	<i>Manorina melanocephala</i>				X
Pacific Black Duck	<i>Anas superciliosa</i>				X
Painted Honeyeater	<i>Grantiella picta</i>	VU	VU		
Peregrine Falcon	<i>Falco peregrinus</i>				
Pied Cormorant	<i>Phalacrocorax varius</i>				
Pied Stilt	<i>Himantopus leucocephalus</i>				

Common name	Scientific name	EPBC-T	EPBC-M	FFG	Recorded
Pink-eared Duck	<i>Malacorhynchus membranaceus</i>				X
Plumed Whistling-Duck	<i>Dendrocygna eytoni</i>				
Purple (Australasian) Swamphen	<i>Porphyrio porphyrio</i>				X
Purple-crowned Lorikeet	<i>Glossopsitta porphyrocephala</i>				X
Rainbow Lorikeet	<i>Trichoglossus haematodus</i>				X
Red Wattlebird	<i>Anthochaera carunculata</i>				X
Red-browed Finch	<i>Neochmia temporalis</i>				X
Red-capped Plover	<i>Charadrius ruficapillus</i>				X
Red-kneed Dotterel	<i>Erythrogonys cinctus</i>				X
Red-necked Avocet	<i>Recurvirostra novaehollandiae</i>				
Red-necked Stint	<i>Calidris ruficollis</i>	M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)			X
Red-rumped Parrot	<i>Psephotus haematonotus</i>				X
Restless Flycatcher	<i>Myiagra inquieta</i>				X
Rock Dove	<i>Columba livia</i>				
Royal Spoonbill	<i>Platalea regia</i>				
Rufous Songlark	<i>Cincloramphus mathewsi</i>				X
Rufous Whistler	<i>Pachycephala rufiventris</i>				X
Sacred Kingfisher	<i>Todiramphus sanctus</i>				
Scarlet Robin	<i>Petroica boodang</i>				X
Sharp-tailed Sandpiper	<i>Calidris acuminata</i>	M (Bonn A2H, ROKAMBA, JAMBA, CAMBA)			X
Shining Bronze-Cuckoo	<i>Chrysococcyx lucidus</i>				X
Silver Gull	<i>Chroicocephalus novaehollandiae</i>				X
Silvereye	<i>Zosterops lateralis</i>				X
Southern Boobook	<i>Ninox boobook</i>				

Common name	Scientific name	EPBC-T	EPBC-M	FFG	Recorded
Spotted Dove	<i>Spilopelia chinensis</i>				X
Spotted Harrier	<i>Circus assimilis</i>				
Spotted Pardalote	<i>Pardalotus punctatus punctatus</i>				X
Straw-necked Ibis	<i>Threskiornis spinicollis</i>				X
Striated Pardalote	<i>Pardalotus striatus</i>				X
Striated Thornbill	<i>Acanthiza lineata</i>				X
Stubble Quail	<i>Coturnix pectoralis</i>				X
Sulphur-crested Cockatoo	<i>Cacatua galerita</i>				X
Superb Fairy-wren	<i>Malurus cyaneus</i>				X
Swamp Harrier	<i>Circus approximans</i>				X
Tree Martin	<i>Petrochelidon nigricans</i>				X
Varied Sittella	<i>Daphoenositta chrysopetra</i>				
Weebill	<i>Smicrornis brevirostris</i>				X
Wedge-tailed Eagle	<i>Aquila audax</i>				X
Welcome Swallow	<i>Hirundo neoxena</i>				X
Whiskered Tern	<i>Chlidonias hybridus</i>				X
Whistling Kite	<i>Haliastur sphenurus</i>				X
White-backed Swallow	<i>Cheramoeca leucosternus</i>				
White-browed Scrubwren	<i>Sericornis frontalis</i>				X
White-browed Woodswallow	<i>Artamus superciliosus</i>				X
White-faced Heron	<i>Egretta novaehollandiae</i>				X
White-fronted Chat	<i>Epthianura albifrons</i>				X
White-naped Honeyeater	<i>Melithreptus lunatus</i>				X
White-necked Heron	<i>Ardea pacifica</i>				X
White-plumed Honeyeater	<i>Ptilotula penicillatus</i>				X
White-throated Needletail	<i>Hirundapus caudacutus</i>		M (CAMBA, ROKAMBA, JAMBA)	VU	
White-winged Chough	<i>Corcorax melanorhamphos</i>				X

Common name	Scientific name	EPBC-T	EPBC-M	FFG	Recorded
White-winged Triller	<i>Lalage sueurii</i>				
Willie Wagtail	<i>Rhipidura leucophrys</i>				X
Yellow Thornbill	<i>Acanthiza nana</i>				X
Yellow-billed Spoonbill	<i>Platalea flavipes</i>				
Yellow-faced Honeyeater	<i>Caligavis chrysops</i>				X
Yellow-rumped Thornbill	<i>Acanthiza chrysorrhoa</i>				X
Yellow-tailed Black-Cockatoo	<i>Calyptorhynchus funereus</i>				X
Mammals					
Bare-nosed Wombat	<i>Vombatus ursinus</i>				
Black-tailed Wallaby	<i>Wallabia bicolor</i>				
Brown Rat	<i>Rattus norvegicus</i>				
Southern Bent-wing Bat	<i>Miniopterus schreibersii bassanii</i>	CR		CR	
Common Brush-tailed Possum	<i>Trichosurus vulpecula</i>				
Eastern Grey Kangaroo	<i>Macropus giganteus</i>				
Eastern Ring-tailed Possum	<i>Pseudocheirus peregrinus</i>				
European Brown Hare	<i>Lepus europeaus</i>				
Fat-tailed Dunnart	<i>Smilthopsis crassicaudata</i>				
Grey-headed Flying-fox	<i>Pteropus poliocephalus</i>	VU		VU	X
House Mouse	<i>Mus musculus</i>				
Koala	<i>Phascolarctos cinereus</i>				
Large Forest Bat	<i>Vespadelus darlingtoni</i>				
Lesser Long-eared Bat	<i>Nyctophilus geoffroyi</i>				
Platypus	<i>Ornithorhynchus anatinus</i>			VU	X
Red Fox	<i>Vulpes vulpes</i>				
Red-necked Wallaby	<i>Notamacropus rufogriseus banksianus</i>				
Short-beaked Echidna	<i>Tachyglossus aculeatus</i>				
Southern Forest Bat	<i>Vespadelus regulus</i>				
Yellow-bellied Sheath-tail Bat	<i>Saccopteryx flaviventris</i>			VU	
Reptiles					

Common name	Scientific name	EPBC-T	EPBC-M	FFG	Recorded
Blotched Blue-tongued Lizard	<i>Tiliqua nigrolutea</i>				
Eastern Brown Snake	<i>Pseudonaja textilis</i>				
Eastern Snake-necked Turtle	<i>Chelodina longicollis</i>				X
Eastern Three-lined Skink	<i>Acritoscincus duperreyi</i>				
Little Whip Snake	<i>Parasuta flagellum</i>				
Lowland Copperhead	<i>Austrelaps superbus</i>				
Southern Grass Skink	<i>Pseudemoia entrecasteauxii</i>				
Striped Legless Lizard	<i>Delma impar</i>	VU		EN	
Tussock Skink	<i>Pseudemoia pagenstecheri</i>			EN	
White's Skink	<i>Liopholis whitii</i> GROUP				
Reptiles					
Brown Toadlet	<i>Pseudophryne bibronii</i>			EN	
Common Froglet	<i>Crinia signifera</i>				
Growling Grass Frog	<i>Litoria raniformis</i>	VU		VU	X
Southern Brown Tree Frog	<i>Litoria ewingii</i>				
Southern Bullfrog (ssp. unknown)	<i>Limnodynastes dumerilii</i>				
Southern Toadlet	<i>Pseudophryne semimarmorata</i>			EN	
Spotted Marsh Frog	<i>Limnodynastes tasmaniensis</i>				
Striped Marsh Frog	<i>Limnodynastes peronii</i>				
Fish					
Australian Grayling	<i>Prototroctes maraena</i>	VU		EN	
Australian Smelt	<i>Retropinna semoni</i>				X
Brown Trout	<i>Salmo trutta</i>				
Carp Gudgeon	<i>Hypseleotris spp.</i>				X
Common Galaxias	<i>Galaxias maculatus</i>				X
Congolli	<i>Pseudaphritis urvillii</i>				
Dwarf Galaxias	<i>Galaxiella pusilla</i>	VU		EN	
Eastern Gambusia	<i>Gambusia holbrooki</i>				X
Flathead Gudgeon	<i>Philypnodon grandiceps</i>				X

Common name	Scientific name	EPBC-T	EPBC-M	FFG	Recorded
Goldfish	<i>Carassius auratus</i>				
Little Galaxias	<i>Galaxiella toourtkoourt</i>			EN	
Macquarie Perch	<i>Macquaria australasica</i>	EN		EN	
Murray Cod	<i>Maccullochella peelii</i>	VU		EN	
Obscure Galaxias	<i>Galaxiasoliros</i>				
Rainbow Trout	<i>Oncorhynchus mykiss</i>				
Redfin	<i>Perca fluviatilis</i>				X
River Blackfish	<i>Gadopsis marmoratus</i>				
Southern Pygmy Perch	<i>Nannoperca australis</i>				X
Southern Shortfin Eel	<i>Anguilla australis</i>				X
Tench	<i>Tinca tinca</i>				X
Yarra Pygmy Perch	<i>Nannoperca obscura</i>	VU		VU	
Mussels, decopod crustacea					
Hairy Burrowing Crayfish	<i>Engaeus sericatus</i>			VU	
Freshwater Crab	<i>Hymenostomatidae spp.</i>				X
Yabby	<i>Charax destructor</i>				X
Freshwater Shrimp	<i>Paratya australiensis</i>				X

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: listed as threatened under the FFG Act; **EX** = presumed extinct in the wild; **CE** = Critically Endangered; **EN** = Endangered; **VU** = Vulnerable

Appendix 9: Number and height distribution of bird recorded during the formal count of the 2018 to 2025 BUS surveys

Notes: A = Below RSA height (<40 m); B = At RSA height (40–260 m); C (>260 m). Height category "C" is not shown when no birds were recorded above RSA height.

BUS Spring 2018

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total	
Australian Magpie	26		34		19	4	25		41		26		35		21		227	4	231	
Australasian Pipit			6		6								2		6		20	0	20	
Australian Reed-Warbler	18																18	0	18	
Australian Shelduck	2																2	0	2	
Australian Wood Duck							6										6	0	6	
Black Swan								2									0	2	2	
Black-faced Cuckoo-shrike									1		1						2	0	2	
Brolga									2								2	0	2	
Brown Falcon							1		6	1			1				8	1	9	
Brown Songlark	2		11		1				2				6		12	2	34	2	36	
Brown Thornbill													10				10	0	10	
Common Starling	6				68		20		9		36		36					175	0	175
Crested Pigeon	6		2				6		12		4						30	0	30	
Crimson Rosella													3				3	0	3	
Eurasian Skylark	14	1	22		20	1	12		24	2	10		20	2	26	6	148	12	160	
European Goldfinch							6		6		18		14		11		55	0	55	
Fairy Martin							37	20			2						39	20	59	
Galah		2	2		5	4			4	2	20		8		4		43	8	51	
Golden-headed Cisticola					3						1						4	0	4	
Great Egret													1				1	0	1	
Grey Fantail													2				2	0	2	
Grey Shrike-thrush	4				2				3		4		1				14	0	14	
Grey Teal							6						4				10	0	10	

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
House Sparrow					54				10								64	0	64
Little Black Cormorant						4											4	0	4
Little Eagle							1										0	1	1
Little Grassbird	6																6	0	6
Little-pied Cormorant		1															0	1	1
Long-billed Corella					12			27		5	9	13	4				25	45	70
Magpie-lark			8		4				16		10		2		6		46	0	46
Masked Lapwing													4				4	0	4
Nankeen Kestrel	1	1															1	1	2
Noisy Miner			16							3				2		21	0	21	
Pacific Black Duck	1					7								4		12	0	12	
Raven sp.	23	5	16		25		45	2	25	2	20		23	3	21		198	12	210
Red Wattlebird	12				10		12						4		7		45	0	45
Red-rumped Parrot					6		2			2	3	9					19	3	22
Restless Flycatcher									11								11	0	11
Rufous Songlark	4					3											7	0	7
Rufous Whistler													7				7	0	7
Shining Bronze-Cuckoo												1					1	0	1
Silver Gull						2											2	0	2
Silvereye												4					4	0	4
Striated Pardalote							2			2		4					8	0	8
Sulphur-crested Cockatoo							4		6	16	2	3	6				18	19	37
Superb Fairywren	19								8				22				49	0	49
Wedge-tailed eagle											2						2	0	2
Welcome Swallow		2	2		10	2	9							2		23	4	27	
Whistling Kite						1							3			1	3	4	

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
White-browed Woodswallow			30				30										60	0	60
White-faced Heron	2				2		1		1				3				9	0	9
White-fronted Chat													11				11	0	11
White-necked Heron													2				2	0	2
White-plumed Honeyeater	2				12				38		12						64	0	64
Willie Wagtail	14		1		11		3		12		15		3		9		68	0	68
Yellow-faced Honeyeater													14				14	0	14
Yellow-rumped Thornbill													15				15	0	15
Yellow-tailed Black Cockatoo	2																2	0	2
Grand Total	166	12	150		271	11	244	52	227	28	210	19	281	8	131	8	1680	138	1818

BUS Summer 2019

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total		
Australasian Pipit	2		2														2		6	0	6
Australian Magpie	33		26		30		36		29		31	8	36		27		248	8	256		
Australian Shelduck							43										43	0	43		
Australian White Ibis																13	0	13	13		
Australian Wood Duck					20		125										145	0	145		
Banded Lapwing													2		14		16	0	16		
Black-shouldered Kite					1		3										4	0	4		
Brown Falcon							1		2		1	1		2			6	1	7		
Brown Goshawk		2															0	2	2		
Brown Thornbill	6								4		4		6				20	0	20		
Common Starling			74		212							5		50		341	0	341			
Crested Pigeon	4		4		2		7		5			8				30	0	30			
Eurasian Skylark															2		2	0	2		

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
European Goldfinch	5				3		33										41	0	41
Fairy Martin	19																19	0	19
Galah						2					10						12	0	12
Grey Shrike-thrush	2								5								7	0	6
Grey Teal						8											8	0	8
House Sparrow	3																3	0	3
Little Pied Cormorant					2		3										5	0	5
Long-billed Corella					15	2			4			6				4	19	12	31
Lorikeet sp.	259	20	304														563	20	583
Magpie-lark	8		8		17		4		16		2		6		2		63	0	63
Nankeen Kestrel					3					2			1				4	2	6
New Holland Honeyeater	44																44	0	44
Noisy Miner			63		16					2				24			105	0	105
Pacific Black Duck					22												22	0	22
Raven	6	4	33	2	102	32	26	6	37		8		20		39		271	44	315
Red Wattlebird	28		4		46		1		6		60				4		149	0	149
Red-rumped Parrot	34		121		16						7				72		250	0	250
Restless Flycatcher	2																2	0	2
Straw-necked Ibis																6	0	6	6
Striated Thornbill											6						6	0	6
Sulphur-crested Cockatoo					16		4	4	4		3						27	4	31
Superb Fairywren	22					26		15				16					79	0	79
Wedge-tailed Eagle								1	1								1	1	2
Welcome Swallow	18	2	6		4	2		2	11								39	6	45
Whistling Kite	1	1								1						1	1	3	4
White-faced Heron						4		2	2								6	2	8
White-necked Heron					1	1	7									8	1	9	

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
White-plumed Honeyeater	38		2		34				16		4						94	0	94
Willie Wagtail	9		4		12		7		3		3		5		1		44	0	44
Yellow-rumped Thornbill						8						25					33	0	33
Grand Total	543	29	651	2	574	37	348	12	160	6	140	15	131		239	24	2786	125	2911

BUS Winter 2024

Species	B1		B2		B3			B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	C	A	B	A	B	A	B	A	B	A	B	A	B	C	G. Total
Australian Magpie	12		20		20		4	8		26		17		53		32		188	0	4	192
Australian Pipit	1		6		2	1		4		4						1		18	1	0	19
Australian Shelduck										2		2		3	2	2		9	2	0	11
Black-shouldered Kite			1															1	0	0	1
Brolga								2										2	0	0	2
Brown Falcon					3			1						2		2		8	0	0	8
Brown Thornbill	3				2						5		5					15	0	0	15
Collared Sparrowhawk	1																	1	0	0	1
Common Starling					4			41	5	3		25						73	5	0	78
Crimson Rosella	4									2		3		6				15	0	0	15
Eastern Rosella												2						2	0	0	2
Emu											5							5	0	0	5
Eurasian Coot	10																	10	0	0	10
Eurasian Skylark	2	26	10	61	3	19		3	67	6	48	2	26	2	29		59	28	335	0	363
European Goldfinch	1				5					2		8		5				21	0	0	21
Fairy Martin			1												1		2	0	0	2	

Species	B1		B2		B3			B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	C	A	B	A	B	A	B	A	B	A	B	C	G. Total		
Forest Raven	5		20		10			3		4		7		2		1		52	0	0	52
Galah	4							5		13		12		4				38	0	0	38
Golden Whistler												1						1	0	0	1
Golden-headed Cisticola										2								2	0	0	2
Grey Fantail												2						2	0	0	2
Grey Shrike-thrush	1		2		8					5		3						19	0	0	19
Little Black Cormorant												1						1	0	0	1
Little Grassbird					1													1	0	0	1
Little Raven	16		6		78	1				3	2	6		16		16		141	3	0	144
Long-billed Corella	2	2				8		21	100	3	2	8						34	112	0	146
Magpie-lark	4		3		7							7		2		3		26	0	0	26
Masked Lapwing	3												2					3	2	0	5
Nankeen Kestrel						1										1		2	0	0	2
New Holland Honeyeater	14				3													17	0	0	17
Noisy Miner	4											1				18		23	0	0	23
Pacific Black Duck						2										2		4	0	0	4
Purple Swamphen					1													1	0	0	1
Purple-crowned Lorikeet	1				4	1										3		8	1	0	9
Rainbow Lorikeet	2											2						4	0	0	4
Raven sp.	16		63		9	3		1		11		7		27	12	14	2	148	17	0	165
Red Wattlebird	44		1		4											3		52	0	0	52
Red-browed Finch			3															3	0	0	3
Red-rumped Parrot										2		10						12	0	0	12

Species	B1		B2		B3			B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	C	A	B	A	B	A	B	A	B	A	B	C	G. Total		
Silvereye														6				6	0	0	6
Straw-necked Ibis		115				85												0	200	0	200
Striated Pardalote					2							4						6	0	0	6
Striated Thornbill												2						2	0	0	2
Sulphur-crested Cockatoo							2		2	28		8					40	0	0	40	
Superb Fairy-wren	17		15					2		7	11		10				62	0	0	62	
Swamp Harrier	1	1							1	1							2	2	0	4	
Wedge-tailed Eagle			1	1		1											1	2	0	3	
Welcome Swallow	4		2		1	4					7		8				22	4	0	26	
Whistling Kite												1					0	1	0	1	
White-faced Heron													1				1	0	0	1	
White-naped Honeyeater											1						1	0	0	1	
White-plumed Honeyeater			1		4					6							11	0	0	11	
White-winged Chough												7					7	0	0	7	
Willie Wagtail			1						1		5		4				11	0	0	11	
Yellow Thornbill											2						2	0	0	2	
Yellow-faced Honeyeater							1		1							2		4	0	4	
Yellow-rumped Thornbill					8						4						12	0	0	12	
Yellow-tailed Black-cockatoo					7												7	0	0	7	
Grand Total	172	144	158	62	187	123	4	94	173	106	52	200	29	171	43	101	61	1189	687	4	1880

BUS Spring 2024

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total		
Australian Magpie	27		12	4	40		18	5	29	6	24		14	2	27		191	17	208		
Australian Pipit			10		1		1		2						2		16	0	16		
Australian Reed-Warbler			10														10	0	10		
Black Swan	4																4	0	4		
Black-faced Cuckoo-shrike											1						1	0	1		
Brown Falcon			1	1			2	1	2		1		1			1	7	3	10		
Brown Goshawk																	0	0	0		
Brown Songlark			2				1						2		1		6	0	6		
Brown Thornbill	3		1						4		2		6				16	0	16		
Buff-rumped Thornbill			1														1	0	1		
Cacatua sp.															1		1	0	1		
Common Blackbird					1												1	0	1		
Common Starling			2		2		7	12	13		17		1		2		44	12	56		
Crested Pigeon					2								1				3	0	3		
Duck sp.	6																6	0	6		
Eastern Rosella											2						2	0	2		
Eurasian Coot	14																14	0	14		
Eurasian Skylark	16		20		13		27	2	11	1	3		10		20	2	120	5	125		
European Goldfinch			1		1		5		4		13		6				30	0	30		
Galah			1				5	4	5		12				3		26	4	30		
Grey Butcherbird																	0	0	0		
Grey Fantail							1										1	0	1		

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
Grey Shrike-thrush	4		1		2				2		7		1		2		19	0	19
Little Black Cormorant								7									0	7	7
Little Lorikeet											2						2	0	2
Little Raven	9	1	14		4		2		9		16		6		8		68	1	69
Long-billed Corella	2	5						4	2	9	6	5		2			10	25	35
Magpie-lark			2		3				2		1		6				14	0	14
Masked Lapwing	1																1	0	1
Masked Woodswallow							1										1	0	1
Nankeen Kestrel																	0	0	0
New Holland Honeyeater	6				2						1		1				10	0	10
Noisy Miner			1													12	13	0	13
Pacific Black Duck	4															2	6	0	6
Raptor sp.																	0	0	0
Raven sp.	12	7	4	7	6	12	3	9	4		12	6	5	7	7		53	48	101
Red Wattlebird	4		2		8		2		8		2		2		1		29	0	29
Red-browed Finch	1																1	0	1
Red-rumped Parrot			2								12		7				21	0	21
Silveryeye									1		2		5				8	0	8
Spotted Pardalote													1				1	0	1
Straw-necked Ibis																	0	0	0
Striated Pardalote	1										2	2					3	2	5
Stubble Quail							2		3				1		1		7	0	7
Sulphur-crested Cockatoo									7	2	7		1				15	2	17

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
Superb Fairy-wren	8		13		9		2		5		2		9				48	0	48
Tree Martin					2		2				2	4					6	4	10
Wedge-tailed Eagle																	0	0	0
Welcome Swallow	7				2						1		3				13	0	13
Whistling Kite					1			1									1	1	2
White-faced Heron						1			1								1	1	2
White-necked Heron									0								0	0	0
White-plumed Honeyeater																	0	0	0
Willie Wagtail	1		2		1				2		3		7				16	0	16
Yellow-faced Honeyeater											3						3	0	3
Yellow-rumped Thornbill										2							2	0	2
Yellow-tailed Black-cockatoo	20				2												22	0	22
Grand Total	150	13	102	12	102	13	81	45	116	18	158	17	96	11	89	3	894	132	1026

Species	R1		R2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Australian Magpie	16		29		45	0	45	253
Australian Pipit	18		4		22	0	22	38
Australian Reed-Warbler					0	0	0	4
Black Swan					0	0	0	1
Black-faced Cuckoo-shrike					0	0	0	12
Brown Falcon	2				2	0	2	2
Brown Goshawk				2	0	2	2	8

Species	R1		R2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Brown Songlark	1		1		2	0	2	19
Brown Thornbill	2		1		3	0	3	1
Buff-rumped Thornbill					0	0	0	1
Cacatua sp.					0	0	0	1
Common Blackbird					0	0	0	115
Common Starling	35		24		59	0	59	3
Crested Pigeon					0	0	0	6
Duck sp.					0	0	0	4
Eastern Rosella	2				2	0	2	14
Eurasian Coot					0	0	0	165
Eurasian Skylark	16	6	15	3	31	9	40	45
European Goldfinch	15				15	0	15	31
Galah			1		1	0	1	2
Grey Butcherbird	2				2	0	2	1
Grey Fantail					0	0	0	21
Grey Shrike-thrush			2		2	0	2	7
Little Black Cormorant					0	0	0	2
Little Lorikeet					0	0	0	107
Little Raven	23	6	6	3	29	9	38	159
Long-billed Corella	39	85			39	85	124	18
Magpie-lark	2		2		4	0	4	1
Masked Lapwing					0	0	0	1
Masked Woodswallow					0	0	0	1
Nankeen Kestrel	1				1	0	1	10

Species	R1		R2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
New Holland Honeyeater					0	0	0	13
Noisy Miner					0	0	0	7
Pacific Black Duck	1				1	0	1	1
Raptor sp.		1			0	1	1	182
Raven sp.	53	5	23		76	5	81	34
Red Wattlebird	1		4		5	0	5	1
Red-browed Finch					0	0	0	21
Red-rumped Parrot					0	0	0	10
Silveryeye					0	0	0	8
Spotted Pardalote					0	0	0	1
Straw-necked Ibis				3	0	3	3	3
Striated Pardalote					0	0	0	5
Stubble Quail			1		1	0	1	8
Sulphur-crested Cockatoo	4	1			4	1	5	22
Superb Fairy-wren	6		15		21	0	21	69
Tree Martin	44	32			44	32	76	86
Wedge-tailed Eagle		1			0	1	1	1
Welcome Swallow	5	1			5	1	6	19
Whistling Kite			1		1	0	1	3
White-faced Heron					0	0	0	2
White-necked Heron					0	0	0	0
White-plumed Honeyeater			3		3	0	3	3
Willie Wagtail					0	0	0	16
Yellow-faced Honeyeater					0	0	0	3

Species	R1		R2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Yellow-rumped Thornbill					0	0	0	2
Yellow-tailed Black-cockatoo					0	0	0	22
Grand Total	288	138	132	11	420	149	569	1595

BUS Summer 2025

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total	
Australian Hobby				1													0	1	1	
Australian Magpie	12		18		27		24		48		28		19	6	24		200	6	206	
Australian Pelican								1									0	1	1	
Australian Pipit			3										3				6	0	6	
Australian Shelduck	5							11									2	5	13	18
Australian Wood Duck	15																15	0	15	
Black Swan	1																1	0	1	
Black-shouldered Kite	1		1														2	0	2	
Brown Falcon	1		1	4			1	1	3	1	2		3		7		18	6	24	
Brown Songlark															2		2	0	2	
Brown Thornbill	4									2		6					12	0	12	
Brown-headed Honeyeater					1												1	0	1	
Chestnut Teal	1																1	0	1	
Common Blackbird						1											1	0	1	
Common Starling	10						25		6		16						57	0	57	
Crested Pigeon	2				1		2				1		2				8	0	8	

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total	
Crimson Rosella																	0	0	0	
Eastern Rosella																	0	0	0	
Eastern Spinebill																	0	0	0	
Emu							2										2	0	2	
Eurasian Coot	38																38	0	38	
European Goldfinch			27		2		2						20				51	0	51	
Forest Raven			1		4				1		6		3		1		16	0	16	
Galah	1				2		8		2		2	4					15	4	19	
Golden-headed Cisticola			2														2	0	2	
Grey Butcherbird											3						3	0	3	
Grey Currawong			3		1												4	0	4	
Grey Fantail					1		3				2						6	0	6	
Grey Shrike-thrush	5		1		2		1		2		2					1		14	0	14
Little Raven	6	20	27	1	22	2	47	74	172	4	35	1	15	81	60	6	384	189	573	
Long-billed Corella									2		1		2				5	0	5	
Magpie-lark	4		5		8		11		3		1		4		6		42	0	42	
Martin sp.			9								1						1	9	10	
Masked Lapwing	4																4	0	4	
Musk Lorikeet	2	8	24	14	9			18							4		39	40	79	
Nankeen Kestrel					1		2						1	2			4	2	6	
New Holland Honeyeater	12				3		1		2			2					20	0	20	
Noisy Miner					1		1				1		1		11		15	0	15	
Purple-crowned Lorikeet	8	7			1											9	7	16		

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total	
Raven sp.			8		2		8								4			18	4	22
Red Wattlebird	2		2		8		2		3		12		6					35	0	35
Red-rumped Parrot	38		1	4					5		21							65	4	69
Rufous Whistler																		0	0	0
Silveryeye					1													1	0	1
Spotted Pardalote													1					1	0	1
Straw-necked Ibis							5											0	5	5
Striated Pardalote	4				1		2				1							8	0	8
Sulphur-crested Cockatoo						2			1		3	3						6	3	9
Superb Fairy-wren	20		23		1		16		10		16		21					107	0	107
Thornbill sp.										6								6	0	6
Wedge-tailed Eagle		3		3			1	6			8		3					1	23	24
Weebill									2									2	0	2
Welcome Swallow			2															2	0	2
Whistling Kite		1			1		10	10										11	11	22
White-faced Heron	1				4													5	0	5
White-fronted Chat			3															3	0	3
White-necked Heron																		1	0	1
White-plumed Honeyeater			1						1									2	0	2
Willie Wagtail			2		1		6		3		3		7					22	0	22
Yellow-rumped Thornbill	2		4		16							11						33	0	33
Grand Total	199	48	161	27	122	2	175	126	266	5	165	16	127	96	116	9	1331	329	1660	

Species	R1		R2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Australian Hobby					0	0	0	1
Australian Magpie	18		25		43	0	43	249
Australian Pelican					0	0	0	1
Australian Pipit					0	0	0	6
Australian Shelduck					0	0	0	18
Australian Wood Duck					0	0	0	15
Black Swan					0	0	0	1
Black-shouldered Kite					0	0	0	2
Brown Falcon	1		1		2	0	2	26
Brown Songlark					0	0	0	2
Brown Thornbill	5				5	0	5	17
Brown-headed Honeyeater					0	0	0	1
Chestnut Teal					0	0	0	1
Common Blackbird					0	0	0	1
Common Starling	216				216	0	216	273
Crested Pigeon	7		1		8	0	8	16
Crimson Rosella	2				2	0	2	2
Eastern Rosella	8		3		11	0	11	11
Eastern Spinebill			1		1	0	1	1
Emu					0	0	0	2
Eurasian Coot					0	0	0	38
European Goldfinch					0	0	0	51
Forest Raven	4				4	0	4	20

Species	R1		R2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Galah	2				2	0	2	21
Golden-headed Cisticola					0	0	0	2
Grey Butcherbird	5				5	0	5	8
Grey Currawong					0	0	0	4
Grey Fantail			1		1	0	1	7
Grey Shrike-thrush			1		1	0	1	15
Little Raven	8	7	17		25	7	32	605
Long-billed Corella	83				83	0	83	88
Magpie-lark	3		3		6	0	6	48
Martin sp.					0	0	0	10
Masked Lapwing					0	0	0	4
Musk Lorikeet			20		20	0	20	99
Nankeen Kestrel	1				1	0	1	7
New Holland Honeyeater			18		18	0	18	38
Noisy Miner	3		11		14	0	14	29
Purple-crowned Lorikeet			25		25	0	25	41
Raven sp.	1				1	0	1	23
Red Wattlebird	2		14		16	0	16	51
Red-rumped Parrot					0	0	0	69
Rufous Whistler			2		2	0	2	2
Silveryeye					0	0	0	1
Spotted Pardalote					0	0	0	1
Straw-necked Ibis					0	0	0	5

Species	R1		R2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Striated Pardalote			2		2	0	2	10
Sulphur-crested Cockatoo	76				76	0	76	85
Superb Fairy-wren	1		24		25	0	25	132
Thornbill sp.					0	0	0	6
Wedge-tailed Eagle	2	7		2	2	9	11	35
Weebill					0	0	0	2
Welcome Swallow					0	0	0	2
Whistling Kite		1			0	1	1	23
White-faced Heron					0	0	0	5
White-fronted Chat					0	0	0	3
White-necked Heron					0	0	0	1
White-plumed Honeyeater			9		9	0	9	11
Willie Wagtail			4		4	0	4	26
Yellow-rumped Thornbill	6		20		26	0	26	59
Grand Total	454	15	202	2	656	17	673	2333

BUS Autumn 2025

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
Australian Magpie	31		43		45		56		38		31		49		40		333	0	333
Australian Pelican	2																2	0	2
Australian Pipit																	0	0	0
Australian Shelduck	60						35			2							95	2	97

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
Australian White Ibis	1																1	0	1
Australian Wood Duck	8																8	0	8
Black Swan	9																9	0	9
Black-faced Cuckoo-shrike												1					1	0	1
Black-fronted Dotterel	7																7	0	7
Black-shouldered Kite		2		1													3	0	3
Brown Falcon	2			3		1					1						9	1	10
Brown Thornbill	3				7				4		4		5				23	0	23
Common Starling	2				1		403		2		21				50		479	0	479
Crested Pigeon	9																9	0	9
Crimson Rosella	7									42							49	0	49
Dusky Moorhen	1																1	0	1
Eastern Rosella																	0	0	0
Eurasian Coot	22																22	0	22
Eurasian Skylark	6		14		1		10		10			2	3		4		48	2	50
European Goldfinch			12										68				80	0	80
Forest Raven	2				1						2		1				6	0	6
Galah							4		2		7		7				20	0	20
Golden Whistler																	0	0	0
Golden-headed Cisticola			3						3								6	0	6
Great Crested Grebe	4																4	0	4
Great Egret	1																1	0	1
Grey Butcherbird																	0	0	0

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
Grey Fantail			2		1				2								5	0	5
Grey Shrike-thrush	2				6		2		1		6						17	0	17
Grey Teal	47																47	0	47
Hoary-headed Grebe	11																11	0	11
Little Black Cormorant	4																4	0	4
Little Eagle																	0	0	0
Little Pied Cormorant	3																3	0	3
Little Raven	23		12		91		33		118	9	60		22		25		384	9	393
Long-billed Corella	2												2				4	0	4
Magpie-lark	6		1		7		5		4				5		9		37	0	37
Masked Lapwing	6																6	0	6
Musk Duck	20																20	0	20
Musk Lorikeet	8				6										30	2	44	2	46
Nankeen Kestrel					1		1	1			4						6	1	7
New Holland Honeyeater	48				2												50	0	50
Noisy Miner	7								1						11		19	0	19
Pacific Black Duck	32																32	0	32
Pink-eared Duck	13																13	0	13
Purple-crowned Lorikeet	14	16			1			7			2				5		22	23	45
Rainbow Lorikeet	5																5	0	5
Raven sp.					2		4		3				3				12	0	12
Red Wattlebird	30		4		9		1		3		4		5				56	0	56
Red-kneed Dotterel	1																1	0	1

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
Red-rumped Parrot	19				4				4		6		6				39	0	39
Spotted Dove					1												1	0	1
Straw-necked Ibis	25																25	0	25
Sulphur-crested Cockatoo							8				14						22	0	22
Superb Fairy-wren	32		6				1		5		1		12				57	0	57
Wedge-tailed Eagle		1			2			2				2		4			2	9	11
Weebill					3								3				6	0	6
Welcome Swallow	16				6						9		7		4		42	0	42
Whistling Kite	1						2								1		4	0	4
White-faced Heron					3												3	0	3
White-plumed Honeyeater	5		2														7	0	7
Willie Wagtail	5				4	1	1		1		5		9				25	1	26
Yellow-faced Honeyeater	2		6		2				34		52		5				101	0	101
Yellow-rumped Thornbill					20				1		22		10				53	0	53
Yellow-tailed Black-cockatoo					1												1	0	1
Grand Total	564	17	107		231	1	569	11	236	11	294	4	222	4	179	2	2402	50	2452

Species	R1		R2		All points				G. total (impact & reference)
	A	B	A	B	A	B	G. Total		
Australian Magpie	35			36		71	0	71	404
Australian Pelican					0	0	0		2
Australian Pipit			8		8	0	8		8
Australian Shelduck					0	0	0		97

Species	R1		R2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Australian White Ibis					0	0	0	1
Australian Wood Duck					0	0	0	8
Black Swan					0	0	0	9
Black-faced Cuckoo-shrike					0	0	0	1
Black-fronted Dotterel					0	0	0	7
Black-shouldered Kite					0	0	0	3
Brown Falcon					0	0	0	10
Brown Thornbill			8		8	0	8	31
Common Starling	12				12	0	12	491
Crested Pigeon	5				5	0	5	14
Crimson Rosella	4		9		13	0	13	62
Dusky Moorhen					0	0	0	1
Eastern Rosella	4				4	0	4	4
Eurasian Coot					0	0	0	22
Eurasian Skylark	5		7		12	0	12	62
European Goldfinch					0	0	0	80
Forest Raven			1		1	0	1	7
Galah			3		3	0	3	23
Golden Whistler			1		1	0	1	1
Golden-headed Cisticola					0	0	0	6
Great Crested Grebe					0	0	0	4
Great Egret					0	0	0	1
Grey Butcherbird	3				3	0	3	3

Species	R1		R2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Grey Fantail			1		1	0	1	6
Grey Shrike-thrush			3		3	0	3	20
Grey Teal					0	0	0	47
Hoary-headed Grebe					0	0	0	11
Little Black Cormorant					0	0	0	4
Little Eagle		1			0	1	1	1
Little Pied Cormorant					0	0	0	3
Little Raven	8	1	16		24	1	25	418
Long-billed Corella	284				284	0	284	288
Magpie-lark	6		1		7	0	7	44
Masked Lapwing					0	0	0	6
Musk Duck					0	0	0	20
Musk Lorikeet	5		8		13	0	13	59
Nankeen Kestrel					0	0	0	7
New Holland Honeyeater			1		1	0	1	51
Noisy Miner	1		2		3	0	3	22
Pacific Black Duck					0	0	0	32
Pink-eared Duck					0	0	0	13
Purple-crowned Lorikeet	2		1		3	0	3	48
Rainbow Lorikeet			2		2	0	2	7
Raven sp.					0	0	0	12
Red Wattlebird	20		5		25	0	25	81
Red-kneed Dotterel					0	0	0	1

Species	R1		R2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Red-rumped Parrot	7		8		15	0	15	54
Spotted Dove					0	0	0	1
Straw-necked Ibis					0	0	0	25
Sulphur-crested Cockatoo	102				102	0	102	124
Superb Fairy-wren	2		31		33	0	33	90
Wedge-tailed Eagle	2	5			2	5	7	18
Weebill					0	0	0	6
Welcome Swallow			3		3	0	3	45
Whistling Kite					0	0	0	4
White-faced Heron					0	0	0	3
White-plumed Honeyeater			4		4	0	4	11
Willie Wagtail			8		8	0	8	34
Yellow-faced Honeyeater			6		6	0	6	107
Yellow-rumped Thornbill			5		5	0	5	58
Yellow-tailed Black-cockatoo					0	0	0	1
Grand Total	507	7	178	0	685	7	692	3144

BUS Winter 2025

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Australasian Grebe	1																	1	0	1
Australian Hobby	1																	1	0	1
Australian Magpie	69		57		49		32	13	75		64		38	6	56	4	440	23	463	

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
Australian Pipit			5				3		1						4		13	0	13
Australian Shelduck	14				2		2	1			3					2	21	3	24
Australian Wood Duck							2				8						10	0	10
Black Kite								1								1	0	2	2
Black Swan		2			2			6									2	8	10
Black-faced Cuckoo-shrike																	0	0	0
Blue-winged Parrot									2							1	0	3	3
Brown Falcon	2		2					2		4					2		8	4	12
Brown Thornbill	6		2		1				1				4				14	0	14
Chestnut Teal	15																15	0	15
Common Blackbird							2										2	0	2
Common Starling			3				50		146		112	45	10		1		322	45	367
Crested Pigeon	3						4										7	0	7
Crimson Rosella	4		16				3				7						30	0	30
Eastern Rosella										2							2	0	2
Emu							3										3	0	3
Eurasian Coot	580																580	0	580
Eurasian Skylark	12	2	45	6	15	4	21	14	20		15		10		22	12	160	38	198
European Goldfinch					4							13		1			18	0	18
Flame Robin			3														3	0	3
Forest Raven	5		7		7		2		12		9		9		13		64	0	64
Galah	3		6				18	2	8		10		30	12			75	14	89
Grey Butcherbird					1				1								2	0	2
Grey Fantail									1								1	0	1
Grey Shrike-thrush	6				2		4		5		4						21	0	21
Grey Teal							6										6	0	6

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total	
Lewin's Rail			1														1	0	1	
Little Raven	14		25		14		7		47		18	17	30		11		166	17	183	
Long-billed Corella	4						5	6	5		120		1	10	7		142	16	158	
Magpie-lark	8		5		6		6		7	1	6		7		12		57	1	58	
Masked Lapwing	6		2				2				3				1		14	0	14	
Musk Lorikeet					1												1	0	1	
Nankeen Kestrel	1		1		1		1				1		1				6	0	6	
New Holland Honeyeater	26		1		6		3		5								41	0	41	
Noisy Miner	4		7				2				1				22		36	0	36	
Pacific Black Duck	94		3						4	2					2		101	4	105	
Purple-crowned Lorikeet	5								1								5	1	6	
Raven sp.	28		19		12		11	5	112		29		8	5	13	2	232	12	244	
Red Wattlebird	17		14		9		6		12		1				1		60	0	60	
Red-browed Finch			4		4												8	0	8	
Red-rumped Parrot					2		2		17		34		13				68	0	68	
Scarlet Robin			1														1	0	1	
Silveryeye					5												5	0	5	
Striated Pardalote	1				3		2		4		2						12	0	12	
Sulphur-crested Cockatoo							4	2	1		54			1			59	3	62	
Superb Fairy-wren	43		16		2		6		6		10		14				97	0	97	
Tree Martin			2														2	0	2	
Wedge-tailed Eagle	1		2	3	3		4						1	5		1	4	16	20	
Welcome Swallow	15		17				1		3		1		1		4		42	0	42	
Whistling Kite				1	1	1					1	1				1	1	3	4	7
White-browed Scrubwren							3						2				5	0	5	
White-faced Heron									1		3	4					4	4	8	

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
White-fronted Chat			1														1	0	1
White-necked Heron									2								2	0	2
White-plumed Honeyeater	2		2		1		2		14								21	0	21
White-winged Chough	4								1								5	0	5
Willie Wagtail	1		1		2		4		1		3		7				19	0	19
Yellow-faced Honeyeater	2		5		1		5		1								14	0	14
Yellow-rumped Thornbill			2		6		3						6				17	0	17
Yellow-tailed Black-Cockatoo	2																2	0	2
Grand Total	999	4	275	12	159	8	227	63	511	2	525	66	205	39	173	24	3074	218	3292

Species	B1		B2		All points			G. total (impact & reference)		
	A	B	A	B	A	B	G. Total			
Australasian Grebe					0	0	0			1
Australian Hobby					0	0	0			1
Australian Magpie	44		56		100	0	100			563
Australian Pipit	13		3		16	0	16			29
Australian Shelduck	10				10	0	10			34
Australian Wood Duck					0	0	0			10
Black Kite					0	0	0			2
Black Swan					0	0	0			10
Black-faced Cuckoo-shrike	1				1	0	1			1
Blue-winged Parrot					0	0	0			3
Brown Falcon		1			0	1	1			13
Brown Thornbill			2		2	0	2			16
Chestnut Teal					0	0	0			15

Species	B1		B2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Common Blackbird					0	0	0	2
Common Starling	8		4		12	0	12	379
Crested Pigeon	2				2	0	2	9
Crimson Rosella	4				4	0	4	34
Eastern Rosella	13				13	0	13	15
Emu					0	0	0	3
Eurasian Coot					0	0	0	580
Eurasian Skylark	21		16	19	37	19	56	254
European Goldfinch					0	0	0	18
Flame Robin					0	0	0	3
Forest Raven	4		1		5	0	5	69
Galah	8		8		16	0	16	105
Grey Butcherbird	3				3	0	3	5
Grey Fantail					0	0	0	1
Grey Shrike-thrush	1		1		2	0	2	23
Grey Teal					0	0	0	6
Lewin's Rail					0	0	0	1
Little Raven	23		22		45	0	45	228
Long-billed Corella	288		4	35	292	35	327	485
Magpie-lark	8		3		11	0	11	69
Masked Lapwing	1				1	0	1	15
Musk Lorikeet					0	0	0	1
Nankeen Kestrel	1				1	0	1	7
New Holland Honeyeater			3		3	0	3	44
Noisy Miner	12		5	5	17	5	22	58
Pacific Black Duck	3				3	0	3	108

Species	B1		B2		All points			G. total (impact & reference)
	A	B	A	B	A	B	G. Total	
Purple-crowned Lorikeet					0	0	0	6
Raven sp.	10	8	21		31	8	39	283
Red Wattlebird	2		15		17	0	17	77
Red-browed Finch					0	0	0	8
Red-rumped Parrot	8		2		10	0	10	78
Scarlet Robin					0	0	0	1
Silveryeye					0	0	0	5
Striated Pardalote					0	0	0	12
Sulphur-crested Cockatoo	69	11			69	11	80	142
Superb Fairy-wren			19		19	0	19	116
Tree Martin					0	0	0	2
Wedge-tailed Eagle		2	3	3	3	5	8	28
Welcome Swallow					0	0	0	42
Whistling Kite			1		1	0	1	8
White-browed Scrubwren					0	0	0	5
White-faced Heron	2		1		3	0	3	11
White-fronted Chat			9		9	0	9	10
White-necked Heron	3				3	0	3	5
White-plumed Honeyeater	1				1	0	1	22
White-winged Chough					0	0	0	5
Willie Wagtail					0	0	0	19
Yellow-faced Honeyeater					0	0	0	14
Yellow-rumped Thornbill			2		2	0	2	19
Yellow-tailed Black-Cockatoo					0	0	0	2
Grand Total	563	22	201	62	764	84	848	4140

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Species	B1		B2		B3		B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total	
Australian Hobby																1		1	0	1
Australian Magpie	10	6	47	31	20		26		26		18	30	3	36		213	40	253		
Australian Pipit	3		11		7		11				9			13		54	0	54		
Australian Shelduck	20	1			3		2		2								27	1	28	
Australian Wood Duck		2															0	2	2	
Banded Lapwing					2												2	0	2	
Black Swan	4																4	0	4	
Blue-winged Parrot			35														35	0	35	
Brown Falcon		1		2			3		1							2	6	3	9	
Brown Goshawk																	0	0	0	
Brown Thornbill	4		1						7		4	1					17	0	17	
Common Starling			15		1		1		1	14	20				308		346	14	360	
Crested Pigeon	1		1		1							3					6	0	6	
Crimson Rosella	4		2								9						15	0	15	
Eastern Rosella											2					2	4	0	4	
Emu						2											2	0	2	
Eurasian Coot	24																24	0	24	
Eurasian Skylark	2		48	4	3		13		9		1	7		49		132	4	136		
European Goldfinch	6		5		3		7				3	9				33	0	33		
Fairy Martin	16																16	0	16	
Galah	2		26	15	4		10				4	1				47	15	62		
Golden Whistler												1					1	0	1	
Great Crested Grebe	3																3	0	3	
Grey Butcherbird					3												3	0	3	
Grey Fantail							9		1		2	5				17	0	17		

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points			
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total	
Grey Shrike-thrush					1				2		6	1					10	0	10	
Grey Teal	6																6	0	6	
Hoary-headed Grebe	14																14	0	14	
Little Corella									3						7		10	0	10	
Little Raven	9		176		8		15		1			12		319		540	0	540		
Long-billed Corella									7	5		10				4	15	11	26	
Magpie-Lark			1		6				5			3		10		25	0	25		
Masked Lapwing																0	0	0		
Musk Lorikeet															4		4	0	4	
New Holland Honeyeater	20						3						1				24	0	24	
Noisy Miner															26		26	0	26	
Pacific Black Duck					1						2					1		4	0	4
Purple-crowned Lorikeet		2														2		2	2	4
Raven sp.	22		57		10	2	9	3	12		9	17	3	59		195	8	203		
Red Wattlebird	8		3		2		4		1			3		1		22	0	22		
Red-rumped Parrot	5								5		7					17	0	17		
Reed-Warbler			4													4	0	4		
Silveryeye									2								2	0	2	
Straw-necked Ibis							40										0	40	40	
Sulphur-crested Cockatoo					8	4	20			2	5					33	6	39		
Superb Fairy-wren	23		8						12			12				55	0	55		
Thornbill sp.											1					1	0	1		
Tree Martin	4										5					9	0	9		
Wedge-tailed Eagle							1			2						2	1	4	5	
Welcome Swallow	21		9		4				3		6	5		4		52	0	52		
Whistling Kite											6					6	0	6		

Species	B1		B2		B3		B4		B5		B6		B7		B8		All points		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	G. Total
White-faced Heron		1							2		1	1					4	1	5
White-plumed Honeyeater																	0	0	0
White-winged Chough									3								3	0	3
Willie Wagtail	1		2		5		1				1	8					18	0	18
Yellow-faced Honeyeater			1		1						1	2					5	0	5
Yellow-rumped Thornbill	2		1		1				3		3	1					11	0	11
Yellow-tailed Black Cockatoo												2					2	0	2
Yellow-tailed Black-cockatoo								1									0	1	1
Grand Total	234	13	453	52	94	46	137	11	106	18	135	125	6	844	6	2128	152	2280	

Species	R1			R2		All points				G. Total (impact & reference)
	A	B	C	A	B	A	B	C	G. Total	
Australian Hobby						0	0	0	0	1
Australian Magpie	31			39		70	0	0	70	323
Australian Pipit	6					6	0	0	6	60
Australian Shelduck	3	2				3	2	0	5	33
Australian Wood Duck						0	0	0	0	2
Banded Lapwing						0	0	0	0	2
Black Swan						0	0	0	0	4
Blue-winged Parrot						0	0	0	0	35
Brown Falcon						0	0	0	0	9
Brown Goshawk				2		2	0	0	2	2
Brown Thornbill				5		5	0	0	5	22
Common Starling	26		3			26	0	3	29	389

Species	R1			R2		All points				G. Total (impact & reference)
	A	B	C	A	B	A	B	C	G. Total	
Crested Pigeon	1					1	0	0	1	7
Crimson Rosella	2					2	0	0	2	17
Eastern Rosella	12			2		14	0	0	14	18
Emu						0	0	0	0	2
Eurasian Coot						0	0	0	0	24
Eurasian Skylark	11	3		26		37	3	0	40	176
European Goldfinch						0	0	0	0	33
Fairy Martin						0	0	0	0	16
Galah				17		17	0	0	17	79
Golden Whistler						0	0	0	0	1
Great Crested Grebe						0	0	0	0	3
Grey Butcherbird				1		1	0	0	1	4
Grey Fantail						0	0	0	0	17
Grey Shrike-thrush				2		2	0	0	2	12
Grey Teal						0	0	0	0	6
Hoary-headed Grebe						0	0	0	0	14
Little Corella	9			52		61	0	0	61	71
Little Raven	9			16		25	0	0	25	565
Long-billed Corella	14	7				14	7	0	21	47
Magpie-Lark	2			3		5	0	0	5	30
Masked Lapwing				2		2	0	0	2	2
Musk Lorikeet	2					2	0	0	2	6
New Holland Honeyeater				9		9	0	0	9	33
Noisy Miner						0	0	0	0	26
Pacific Black Duck				3		3	0	0	3	7
Purple-crowned Lorikeet						0	0	0	0	4

Species	R1			R2		All points				G. Total (impact & reference)
	A	B	C	A	B	A	B	C	G. Total	
Raven sp.	24	2		11		35	2	0	37	240
Red Wattlebird	3					3	0	0	3	25
Red-rumped Parrot	24	2				24	2	0	26	43
Reed-Warbler						0	0	0	0	4
Silveryeye						0	0	0	0	2
Straw-necked Ibis					9	0	9	0	9	49
Sulphur-crested Cockatoo	34					34	0	0	34	73
Superb Fairy-wren				15		15	0	0	15	70
Thornbill sp.						0	0	0	0	1
Tree Martin						0	0	0	0	9
Wedge-tailed Eagle						0	0	0	0	5
Welcome Swallow	2					2	0	0	2	54
Whistling Kite						0	0	0	0	6
White-faced Heron						0	0	0	0	5
White-plumed Honeyeater				2		2	0	0	2	2
White-winged Chough						0	0	0	0	3
Willie Wagtail				4		4	0	0	4	22
Yellow-faced Honeyeater						0	0	0	0	5
Yellow-rumped Thornbill				1		1	0	0	1	12
Yellow-tailed Black Cockatoo						0	0	0	0	2
Yellow-tailed Black-cockatoo						0	0	0	0	1
Grand Total	215	16	3	212	9	427	25		455	2735

Appendix 10: Wetland habitat quality assessment for surveys of listed fauna at Hexham Wind Farm

Wetland number	Habitat quality			Description
	Migratory birds	Latham's Snipe	GGF	
DEECA Wetland 30275 (Wetland 15) Entry of Mustons Creek into WF-NW	Medium	Medium	Medium	Deep valley creek with water, currently standing or very slow flow. Creek bed covered with dense growth of reed, sedge, rush (mainly <i>Carex</i> spp.) and introduced grasses, mainly <i>Phalaris</i> spp. The creek also expands forming open water pools with water ribbons, submerged, and emergent vegetations
DEECA Wetland 30816 (Wetland 16) part of Mustons Creek and a very large dam	Medium	High	Medium-High	Creek as above, heavily over grown by reed (<i>Phragmites australis</i>), rush, sedge and other aquatic vegetation including water ribbon, emergent and sub-merged. Edges covered by trees such as eucalypts, wattle, tee trees, native pines and large shrubs.
DEECA Wetland 30312 (Dam on 16)	Medium-High	High	Medium-High	Open dam > 1 ha. Fenced with edges a combination of open muddy areas and low introduced grasses with small patches of aquatic vegetation within the body of the dam. Edges not tramped by cattle. A large selection of waterbirds with possible 3 Freckled Ducks.
Wetland 111 (Wetland 17)	Medium-High	High (recorded)	High	Open expansions of the Mustons Creek forming large water pools- water standing but was freely flowing last month, flow seems to depend on rainfall. Water pools with dense growth of reed, rush, sage, and introduced grasses on the edges and dense growth of water ribbon and emergent and submerged vegetation. Fauna seen: 1- A pair of Latham's Snipe; 2. Growling Grass Frog; aural record during the day; 3. Many water birds including ducks, ibises, teals, swan, coot and others; 4. few hardheads.
DEECA Wetland 29405 (Wetland 3) Permanent large unnamed lake				Large lake at the central west section of WF. Lake is fenced with deep water and the edges densely covered with various types of aquatic vegetation and trees; parts of the edges were bare mud. A large selection of waterbirds and resident shorebirds was found utilizing the lake.

Wetland number	Habitat quality			Description
	Migratory birds	Latham's Snipe	GGF	
DEECA Wetland 29405 (Wetland 3a) North end of lake	Medium-High	Medium-High	Medium	North end of large permanent Lake with dense vegetation cover at this section including very dense growth of reed, sedges concealing the open water species as in the body of the lake, part of this section is cut off from lake by a fence and trampled by cattle as it has open muddy shores and surrounded by grazing paddock. Few Red-kneed Dotterel were seen on the muddy shores. A small group of Sharp-tailed Sandpiper were seen during last month survey. The remaining north end and connecting creek at this north end is currently dry.
DEECA Wetland 29405 (Wetland 3b) Central section of lake	Medium-High	High	Medium-High	Deep permanent water- edges well covered by dense vegetation (reed, rush, sedges, introduced grass) with few sections of bare mud and low grasses. Edges are not subjected to cattle grazing and mostly shaded by various species of trees. A small flock (7 or 8 birds) were seen but were far to be identified, but most probably S.T. Sandpipers.
DEECA Wetland 29405 (Wetland 3c) Southern end of lake	Medium	Medium-High	Medium-High	Very similar to the northern section. Brolgas were seen there earlier in October but not again in either December or the current survey.
DEECA Wetland 28236 (Wetland 18)	Low	Low	Low	A fair-sized dam >1 ha, and accompanying creek. Dam fenced but open for cattle drinking, bare muddy edges with little aquatic veg. The creek very dry.
DEECA Wetlands 28252 and 28248 (Wetlands 13 and 14)	Medium	High	High	Sections of the Mustons Creek at the eastern section of the WF. Habitat similar to other parts of the creek with dense vegetation and expanded pools of water. Water seemed standing and not flowing as in last month. Aural record during the day at W 14.
Wetland J (Wetland 2)	Medium	High	High	Another section of the Mustons Creek with similar vegetation, at this section parts of the creek was fully dry and water stream is interrupted. Aural record during the day.
Wetland 5b	Low	Medium-High	Medium-High	A section of one of the Mustons Creek tributaries, part dry and part still retain some shallow water pools with dense aquatic veg, similar to other parts of the Mustons Rivers.