

Frankston Vegetation Study 2006

Project 05-5 Planning Review

Prepared for: Frankston City Council



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Summary

This report presents the findings of a Vegetation Study of the City of Frankston. This study is intended to provide an inventory of existing remnants¹, delineating their boundaries, determining the vegetation types and the range of vegetation quality.

The Conservation Significance determined for each Vegetation type in each site will allow refinement of the planning process and the delineation of Environmental Significance Overlays (ESOs).

The sites were reviewed on the basis of air photo interpretation, Department of Sustainability and Environment (DSE) modelling of Ecological Vegetation Classes (EVCs), field surveys and interrogation of biological data bases.

The total number of sites included in the current study is 108. The review of the original 129 sites described in our previous study (Muir et al. 1997) was augmented with another 10 sites by request from Frankston City Council and another 7 sites identified in the current study. Eleven of the original sites were not assessed (generally due to clearing or low species diversity) and 52 sites were amalgamated into 21.

The sites are diverse in terms of vegetation types and quality (or condition). This reflects the variations in geology and soils, land use and weed invasions. The sites are generally more than 0.5 hectares (as defined in our methodology), with only 15 sites of less than a hectare and ten of more than forty hectares, but most range from two to twenty hectares.

Typically, for urban and semi-rural landscapes, the degradation of vegetation was more marked in smaller and more linear remnants. The condition of vegetation in some of the larger sites was of remarkably high quality. This is also a function of soil types, as deep sandy soils are not favourable environments for many weed species.

The municipality seems to be fortunate in the active interest of a large number of 'Friends of' groups, and the skills of bushland officers who are working to maintain and enhance a number of public reserves. Their on-going works will be required to prevent further degradation of sites.

¹ a remnant is defined as a patch of vegetation which adequately represents an Ecological Vegetation Class in terms of its range of life forms, above a specified threshold of diversity.

1 Introduction

Ecology Australia was commissioned by Frankston City Council to undertake a study of the Vegetation of the Frankston City Municipality.

The main objectives of this study are:

- To develop a current vegetation inventory that will provide detailed information about ecological communities found in the municipality, including their relative condition and significance;
- To review and incorporate the current legislation that pertains to the management of native vegetation in Frankston City, to be used in assessing and managing public and private land, particularly in regard to improving relevant provisions in the Frankston Planning Scheme;
- To review and incorporate the current legislation pertaining to the management of native vegetation, to ensure that Council is within the guidelines of *Victoria's Native Vegetation Management - A Framework for Action*.

Our previous study of the vegetation of the municipality (Muir et al. 1997) provided a starting point for the current study, in terms of defining most sites supporting vegetation remnants of reasonable quality, and an indication of the range of vegetation types present. Additional sites were included in the current study based on Council request and our own determinations.

The majority of information collected during the study is presented in GIS format in the form of maps and an integrated Excel database sheet.

The Conservation Significance determined for the EVCs at each site will allow refinement of delineation of ESOs and the identification of suitable locations in the municipality for vegetation management offsets.

2 Study Area

The study area is the Frankston City municipality covering around 130 km² in the south-east of Greater Melbourne. It extends from Eel Race Road in the north of Seaford, west along Thompson Road to Skye. The eastern boundary is formed by Dandenong – Hastings Road to Baxter - Tooradin Road in Langwarrin South. Baxter - Tooradin Road forms the southern boundary through Frankston South to Humphries Road and out to the coast which defines the western boundary. Langwarrin, Frankston, Frankston North, Seaford, Skye and Carrum Downs are all included in the municipality.

Frankston City supports significant natural features of importance for flora and fauna conservation and amenity alongside an important centre of business and industry, residence, recreation and tourism.

The natural environments in Frankston City are predominantly coastal and near-coastal, and of low relief, punctuated by gently sloping escarpments and incised creek lines.

A coastal dune system of Quaternary siliceous and calcareous sands is well developed between Frankston and Seaford. Kananook Creek runs over six kilometres between dunes, exiting at Frankston Pier. Behind this, more recent swamp deposits are typified by Seaford Wetlands (and Carrum Swamp) (Bird 1993). Older Quaternary sand sheets of marine origin extend west and south across a large proportion of the study area.

The north-west of the study area, forming the southern part of the former Carrum Carrum Swamp, is characterised by a large, flat plain of Quaternary peat and clay deposits; these grade into Tertiary Baxter Sandstone, the dominant geology in the east and far south of the study area (Geological Survey of Victoria 1967).

Silurian sandstone occupies extensive areas in the south-east of the municipality, in Langwarrin and Skye (Geological Survey of Victoria 1967). Volcanic geologies are more rarely represented; Devonian granite occurs along Sweetwater Creek to Olivers Hill forming coastal cliffs and Tertiary Basalt outcrops in the north-east of the study area, especially around the intersection of Dandenong-Hastings Road. Ordovician sandstone is represented by a relatively small band in the south-west of the municipality.

The broader area receives an average of 737 mm rainfall per year (recorded at Mornington over 118 years to 2004). This is relatively evenly distributed throughout the year with May to October being the wettest months and January and February being the driest and hottest months (Bureau of Meteorology <http://www.bom.gov.au/climate/averages/tables> 1).

3 Methods

3.1 Literature review

The following information was reviewed as part of the project:

- Ecological Vegetation Class (EVC) mapping (DSE 2005a);
- Frankston City Vegetation Study (Muir et al. 1997);
- Biological Significance Database (DSE 2005a);
- Flora Information System (FIS) Database (DSE 2005);
- DSE threatened species list (DSE 2005b);
- EBPC Protected Matters Search Tool (DEH 2004).

These data were supplemented by information from the following sources:

- Seaford Wetlands (Australian Ecosystems 2005)
- Department of Primary Industries - Frankston (Faithfull 2005)
- Langwarrin Flora and Fauna Reserve Vascular Plant Species Lists (L. Costermans unpublished data; D. Cheal et al. 1995);
- The Pines Flora and Reserve Draft Management Plan (1993);
- Frankston Coastline Management Study (Ecology Australia 1993);
- Vascular Flora of the Pines Management Area (Flora and Fauna Survey and Management Group, Dept. Conservation Forests and Lands, November 1989);
- Peninsula Perspectives (Calder 1986);
- Studio Park Management Plan (Frankston City Council 1997);
- Seaford Foreshore Reserve Management Plan (Walker et al. 1993);
- Natural Reserves in Frankston (Brunner and Courtney 1996); and
- Kananook Creek and Long Island studies (Wilson et al. 2005; Frankston City Council 1992).

3.2 GIS

Frankston City Council provided a CD with aerial photography supplemented by cadastral data, both in MapInfo.tab format (Frankston City Council 2005). This was used to map all remnant vegetation sites for field checking, including all sites identified in our previous study.

A vegetation remnant was defined as a stand of indigenous vegetation of 0.5 hectares or greater and displaying remnant structural and/or floristic characters representative of an Ecological Vegetation Class (ie. consisting of more than just scattered indigenous trees or other single species and / or the understorey having greater than 10% of the total cover specified for the relevant benchmark).

Additional reserves and remnants to visit were identified by Mark Doyle of Frankston City Council and from site inspections.

The boundaries of all sites meeting the above criteria were mapped digitally onto the relevant portions of the State Digital Map Base using pcArcView at a scale of 1:5 000.

Additional data may need to be added to the database as site access is granted in the future, or with refinement of EVC descriptions by DSE. Benchmarks for assessment of Wetland EVCs in particular were being produced at the time of writing.

3.3 Taxonomy

Plant taxonomy follows DSE (2004 b), Ross and Walsh (2003) and Walsh and Entwisle (1994, 1996).

Note that: *Acacia longifolia s.l.* – refers to *Acacia longifolia ssp. longifolia* and *A. longifolia ssp. sophorae* which intergrade and are often difficult to distinguish. *A. longifolia ssp. sophorae* is more common on the coastal dunes, whereas the shrub invading inland woodland remnants is usually identifiable as *A. longifolia ssp. longifolia*. All references to Coast Wattle records are to *Acacia longifolia s.l.*

3.4 Field surveys

The study sites were inspected between May and December, 2005 and from January to March, 2006. Notes were made on the flora values for each site, including:

- Ecological Vegetation Classes (EVCs) present;
- General condition of the vegetation;
- Identification of major degrading factors.

The vegetation assessment for a site is based on benchmarks for each EVC recorded (e.g. Appendix 1, or see DSE website ²) and focuses on the extent of native vegetation cover, composition, structure and other features important in determining vegetation (or habitat) quality such as the presence or absence of old or hollow-bearing trees, a diverse understorey, the level of disturbance (e.g. weed invasion), and ground layer characteristics, including leaf litter, logs, and fallen branches. Also important are the size and shape of a remnant and its connectivity to other vegetation.

Vegetation condition assessment (Net Gain Habitat scores) were undertaken for the dominant EVC(s) of each site. In patches where the quality of vegetation varied, the range of scores was estimated (to the nearest 5%). This information was compiled using a pro-forma sheet (Appendix 2).

All data collated was entered into an Excel database sheet which was integrated into the GIS. This has been made available to Frankston City Council to provide detailed information on each of 108 remnant sites. This information is summarised in Appendix 4 of this document.

² <http://www.dse.vic.gov.au/dse/nrence.nsf/LinkView/43FE7DF24A1447D9CA256EE6007EA8788062D358172E420C4A256DEA0012F71C>

Most sites were inspected on foot to determine the variations in vegetation type and quality, however access to privately-owned sites was not always permitted and inspection from the roadside was employed where possible to complement aerial photo predictions and DSE modelling. Geological data and surrounding vegetation contributed to the prediction of EVC and quality.

Note that mapping of site and EVC boundaries utilised aerial photography where ground checking was not possible (particularly for larger sites) and often defaulted to cadastral boundaries for practicability.

Compilation of detailed species lists was beyond the scope of the study, although plant lists, particularly for rare and threatened species that were available in published reports or provided to the authors by other botanists assisted in determining the overall significance of sites in some cases.

3.4.1 Conservation Status and Significance of EVCs

We have generally followed the DSE assessments of Conservation Status for each EVC. However, we suggest that for a number of Floristic Vegetation Groups within EVCs, if not the EVCs themselves, the Conservation Status should probably be increased.

Heathy Woodland EVC is currently considered to be 'Least Concern' in the Gippsland Plain Bioregion, but it is depleted in its extent due primarily to clearing and weed invasion. It also has affinities (in distribution and species composition) with the EPBC-listed Sand Heathland EVC.

The Coastal Dune Grassland and Scrub EVCs are also listed as 'Least Concern' (Coastal Dune Grassland and Coastal Dune Scrub) or Depleted (Coastal Headland Scrub). These are subject to a range of disturbances from eroding forces (sea and wind) and user-pressures (beach visitors) and their survival is crucial to maintaining dune stability.

We have revised the levels of Conservation Status of these EVCs for the purposes of this report, as follows:

EVC	DSE Conservation Status	Recommended Change
Coastal Dune Grassland	Least Concern	Endangered
Coastal Headland Scrub	Depleted	Vulnerable
Coastal Dune Scrub	Least Concern	Vulnerable
Heathy Woodland	Least Concern	Depleted

The evidence for these elevations of threatened status needs to be compiled. Frankston City Council may like to make recommendations to DSE, and contribute to future revisions of Conservation Status in relation to these EVCs.

The Conservation Significance of each EVC was determined by combining the Condition Score with the Status of each EVC (as outlined in Table 5 of the Framework (DSE 2002). For example, a remnant of Sand Heathland (Rare Conservation Status) with a Condition Score between 0.3 and 0.6 is High. For sites with more than one EVC the most Significant was used to summarise the site significance.

4 Vegetation

4.1 Ecological Vegetation Classes

The size of the municipality and the range of geologies and local environments engender a great variation in vegetation types and their condition (see Figure 1).

The types of disturbance are more constant, particularly in areas surrounded by urban development where the accompanying visitor pressures (walking, horse and bike riding, dog and cat presence) and garden plantings provide a range of degrading processes including erosion, weed invasion, decline in species-richness and abundance, introduced fauna and out-of-balance indigenous fauna (e.g. Noisy and Bell Miners). Amenity and user demands can also dictate clearing, mowing and slashing of sections of public reserves. Ultimately, for many sites, particularly smaller sites, the understorey depletion can result in 'tree-only' remnants, with limited conservation and habitat values.

The Ecological Vegetation Classes (EVCs) identified in sites in Frankston City are grouped below according to broad environmental settings, (and are described in this order):

Foredune and coastal environment vegetation:

- Coastal Dune Grassland;
- Coastal Dune Scrub;
- Coastal Headland Scrub;
- Coast Banksia Woodland.

Deep, sandy soil environments:

- Sand Heathland;
- Heathy Woodland;
- Damp Sands Herb-rich Woodland;
- Damp Heathland;
- Damp Heathy Woodland.

Riparian and other moist environments:

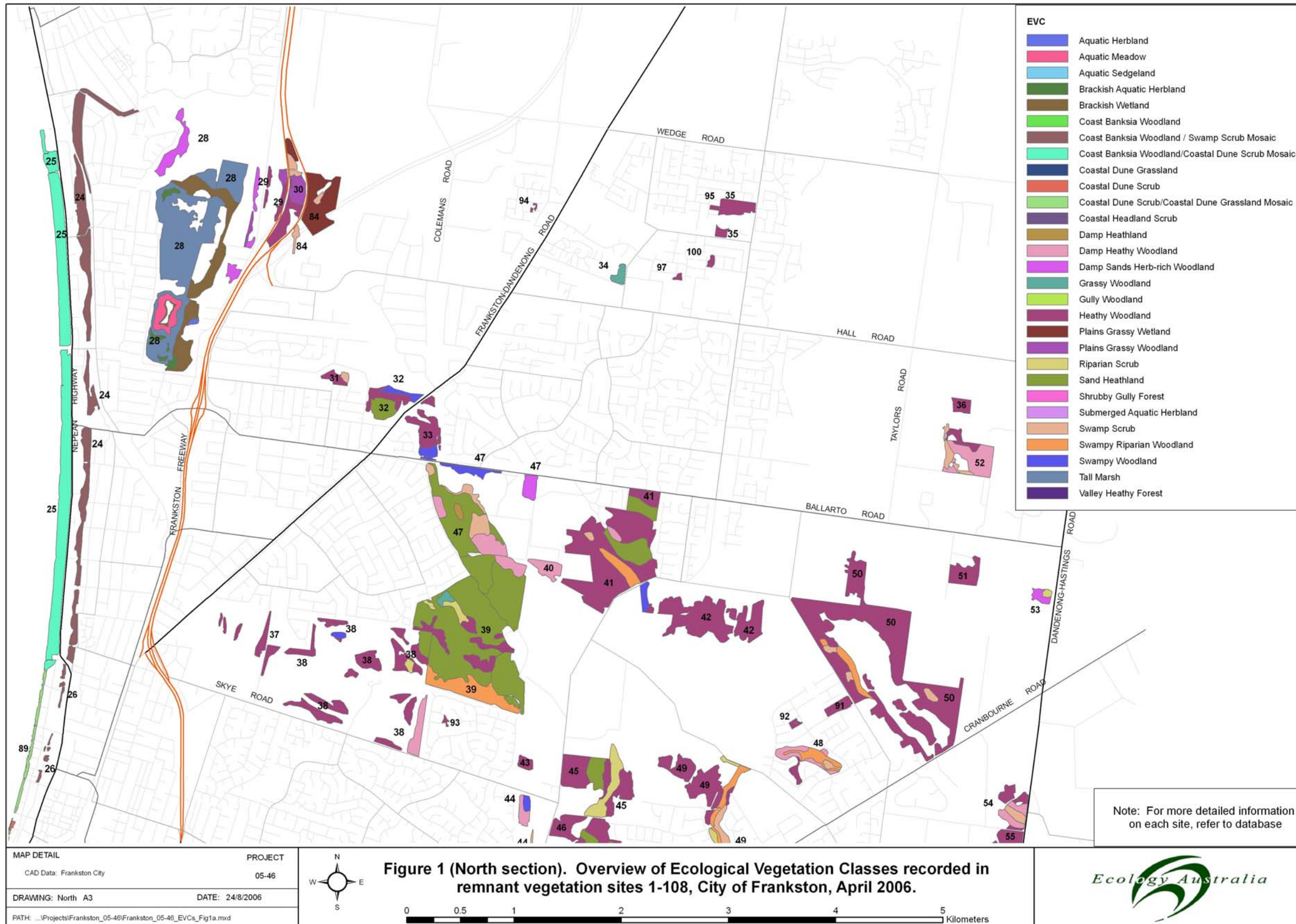
- Riparian Scrub;
- Swamp Scrub;
- Swampy Riparian Woodland;
- Gully Woodland;
- Shrubby Gully Forest.

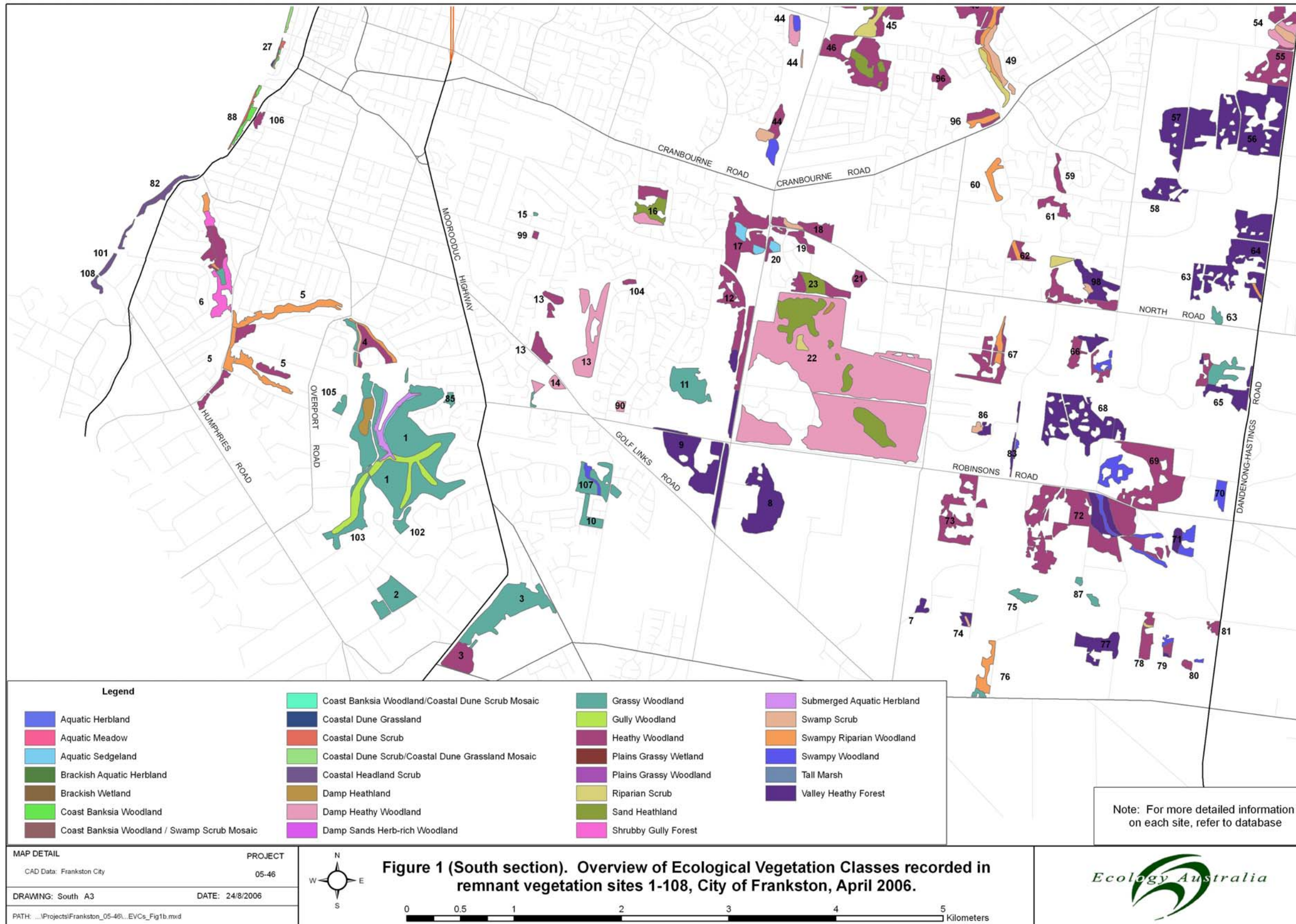
Soils with more impeded drainage:

- Grassy Woodland;
- Valley Heathy Forest;
- Plains Grassy Woodland;
- Swampy Woodland; and

A range of wetland communities, including:

- Plains Grassy Wetland;
- Tall Marsh;
- Aquatic Herbland;
- Brackish Aquatic Herbland; and
- Brackish Wetland.





Based on the rarity, levels of depletion, degradation and current threats, DSE (website ³) have applied the following conservation status to the 23 EVCs recognised for the Frankston municipality. We have increased the Conservation Status of four EVCs, as outlined in Section 3.4.1, above.

EVC	Conservation Status
879 Coastal Dune Grassland	Endangered
160 Coastal Dune Scrub	Vulnerable
161 Coastal Headland Scrub	Vulnerable
2 Coast Banksia Woodland	Vulnerable
6 Sand Heathland	Rare
48 Heathy Woodland	Depleted
3 Damp Sands Herb-rich Woodland	Vulnerable
710 Damp Heathland	Rare
793 Damp Heathy Woodland	Vulnerable
191 Riparian Scrub	Vulnerable
53-61 Swamp Scrub	Endangered
83 Swampy Riparian Woodland	Endangered
902 Gully Woodland	Endangered
938 Shrubby Gully Forest	Vulnerable
175 Grassy Woodland	Endangered
127 Valley Heathy Forest	Endangered
55 Plains Grassy Woodland	Endangered
937 Swampy Woodland	Endangered
125 Plains Grassy Wetland	Endangered
821 Tall Marsh	Endangered
653 Aquatic Herbland	Endangered
537 Brackish Aquatic Herbland	Vulnerable
656 Brackish Wetland	Rare

Three EVC complexes are also mapped, where the EVCs are consistently intermingled and difficult to separate at the scale of mapping:

EVC 1: Coastal Dune Scrub / Coastal Dune Grassland Mosaic	Endangered
EVC 904: Coast Banksia Woodland / Swamp Scrub Mosaic	Endangered
EVC 921: Coastal Dune Scrub / Coast Banksia Woodland Mosaic	Vulnerable

These coexist over long, narrow areas, e.g. Seaford coastline and Kananook Creek. At the time of writing, DSE are revising the Victorian wetland typology and assessment benchmarks. Not assessed, but present in very small remnants, are the EVCs 308 Aquatic Sedgeland and 842 Saline Aquatic Meadow.

The EVCs are described below according to attributes such as indigenous species, vegetation structure, and environmental parameters, e.g. soil type and topography. The descriptions are based on the previous study (Muir et al. 1997), EVC benchmarks for Gippsland Plain Bioregion and our field studies.

³ <http://www.dpi.vic.gov.au/dse/nrence.nsf>

4.2 EVC Descriptions

EVC 879: Coastal Dune Grassland

Conservation Status: Endangered

Typical Indigenous Species		
Species	Common Name	Indicative Abundance ⁺
Herbs and graminoids		
<i>Ficinia nodosa</i>	Knobby Club-sedge	2
<i>Lepidosperma gladiatum</i>	Coast Sword-sedge	2
<i>Spinifex sericeus</i>	Hairy Spinifex	3
<i>Carpobrotus rossii</i>	Karkalla	2
Scramblers / Climbers		
<i>Clematis microphylla</i>	Small-leaved Clematis	2

STRUCTURE: Open grassland to sedgeland.

DISTRIBUTION / ENVIRONMENT: Calcareous and siliceous dunes of Quaternary origin. Soils are deep uniform sandy loams. Common in northern and central Frankston, west of Nepean Highway (Seaford Foreshore Reserve).

Commonly invaded by **Ammophila arenaria* Marram Grass.

⁺ Indicative Abundance incorporates data from across the municipality and uses the Braun-Blanquet scale (Gullan 1978):

- + cover < 5%, few individuals
- 1 cover < 5%, any number of individuals
- 2 cover 5-20%, any number of individuals
- 3 cover 20-50%, any number of individuals
- 4 cover 50-75%, any number of individuals
- 5 cover 75-100%, any number of individuals

EVC 160: Coastal Dune Scrub**Conservation Status:** Vulnerable

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Shrubs		
<i>Leptospermum laevigatum</i>	Coast Tea-tree	4
<i>Acacia longifolia</i> ssp. <i>sophorae</i>	Coast Wattle	3
<i>Leucopogon parviflorus</i>	Coast Beard-heath	2
<i>Alyxia buxifolia</i>	Sea Box	1
<i>Correa alba</i>	White Correa	1
<i>Ozothamnus turbinatus</i>	Coast Everlasting	1
<i>Leucophyta brownii</i>	Cushion Bush	1
<i>Myoporum insulare</i>	Common Boobialla	1
<i>Olearia axillaris</i>	Coast Daisy-bush	1
<i>Pomaderris paniculosa</i> ssp. <i>paralia</i>	Coast Pomaderris	1
<i>Rhagodia candolleana</i>	Seaberry Saltbush	1
Herbs and graminoids		
<i>Ficinia nodosa</i>	Knobby Club-sedge	2
<i>Lepidosperma gladiatum</i>	Coast Sword-sedge	1
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	1
Scramblers / Climbers		
<i>Tetragonia implexicoma</i>	Bower Spinach	1

STRUCTURE: Scrub - shrubland**DISTRIBUTION / ENVIRONMENT:** Calcareous and siliceous fore-dunes of Quaternary origin.

Soils are deep uniform sands or sandy loams.

Common in northern and central Frankston, west of Nepean Highway (Seaford Foreshore Reserve).

Threatened by a range of factors including user-pressure and erosion.

EVC 161: Coastal Headland Scrub**Conservation Status:** At least 'Vulnerable'

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Shrubs		
<i>Leptospermum laevigatum</i>	Coast Tea-tree	3
<i>Acacia longifolia</i> ssp. <i>sophorae</i>	Coast Wattle	3
<i>Leucopogon parviflorus</i>	Coast Beard-heath	3
<i>Leucophyta brownii</i>	Cushion Bush	2
<i>Rhagodia candolleana</i>	Seaberry Saltbush	2
Herbs and graminoids		
<i>Ficinia nodosa</i>	Knobby Club-sedge	2
<i>Disphyma crassifolium</i> ssp. <i>clavellatum</i>	Rounded Noon-flower	2
Scramblers / Climbers		
<i>Tetragonia implexicoma</i>	Bower Spinach	2

STRUCTURE: Low shrubland or scrub.**DISTRIBUTION / ENVIRONMENT:** Rocky coastal headlands, eroding rocky cliffs, typically Baxter Sandstone. Shallow sandy soils. Restricted in Frankston to cliffs on and south of Olivers Hill.

EVC 2: Coast Banksia Woodland**Conservation Status:** Vulnerable

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Banksia integrifolia</i>	Coast Banksia	3
<i>Allocasuarina verticillata</i>	Drooping Sheoke	2
Shrubs		
<i>Leptospermum laevigatum</i>	Coast Tea-tree	2
<i>Acacia longifolia</i> ssp. <i>sophorae</i>	Coast Wattle	2
<i>Leucopogon parviflorus</i>	Coast Beard-heath	2
<i>Correa alba</i>	White Correa	1
<i>Rhagodia candolleana</i>	Seaberry Saltbush	1
Herbs and graminoids		
<i>Dichondra repens</i>	Kidney Weed	2
<i>Ficinia nodosa</i>	Knobby Club-sedge	1
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	1
Scramblers / Climbers		
<i>Tetragonia implexicoma</i>	Bower Spinach	2
<i>Clematis microphylla</i>	Small-leaved Clematis	2
Ferns		
<i>Pteridium esculentum</i>	Austral Bracken	2

STRUCTURE: Open woodland.**DISTRIBUTION / ENVIRONMENT:** Calcareous and siliceous sands of Quaternary origin. Soils are deep uniform sandy loams. Represented in Frankston by near-coastal linear remnants, particularly towards the north (eg. Kananook Creek).

EVC 6: Sand Heathland**Conservation Status:** Rare

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus viminalis</i> ssp. <i>pryoriana</i>	Coast Manna Gum	2
Shrubs		
<i>Leptospermum myrsinoides</i>	Silky Tea-tree	4
<i>Allocasuarina paradoxa</i>	Green Sheoak	3
<i>Leptospermum continentale</i> s.l.	Prickly Tea-tree	2
<i>Acacia oxycedrus</i>	Spike Wattle	1
<i>Aotus ericoides</i>	Common Aotus	1
<i>Bossiaea cinerea</i>	Wiry Bossiaea	1
<i>Banksia marginata</i>	Silver Banksia	1
<i>Dillwynia glaberrima</i>	Smooth Parrot-pea	1
<i>Epacris impressa</i>	Common Heath	1
<i>Hibbertia sericea</i>	Silky Guinea-flower	1
<i>Monotoca scoparia</i>	Prickly Broom-heath	1
Herbs and graminoids		
<i>Lepidosperma concavum</i>	Sand-hill Sword-sedge	2
<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge	1
<i>Acrotriche serrulata</i>	Honey-pots	1
<i>Gahnia radula</i>	Thatch Saw-sedge	1
<i>Gonocarpus tetragynus</i>	Common Raspwort	1
<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree	1
Ferns		
<i>Pteridium esculentum</i>	Austral Bracken	1

STRUCTURE: Closed heathland with occasional emergent eucalypts.

DISTRIBUTION / ENVIRONMENT: Undulating dunes and swales on moderately well drained sandy loams of low fertility derived from Quaternary sands. Scattered through centre of Municipality, well represented in Langwarrin Flora and Fauna Reserve and The Pines Flora and Fauna Reserve.

EVC 48: Heathy Woodland**Conservation Status:** Depleted

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus viminalis</i> ssp. <i>pyoriana</i>	Coast Manna Gum	3
<i>Eucalyptus radiata</i>	Small-leaved Peppermint	2
<i>Eucalyptus cephalocarpa</i>	Silver-leaf Stringybark	2
Shrubs		
<i>Leptospermum continentale</i> s.l.	Prickly Tea-tree	2
<i>Leptospermum myrsinoides</i>	Silky Tea-tree	2
<i>Bossiaea cinerea</i>	Wiry Bossiaea	1
<i>Banksia marginata</i>	Silver Banksia	1
<i>Epacris impressa</i>	Common Heath	1
<i>Hibbertia sericea</i>	Silky Guinea-flower	1
<i>Ricinocarpos pinifolius</i>	Wedding Bush	1
Herbs and graminoids		
<i>Gahnia radula</i>	Thatch Saw-sedge	2
<i>Lepidosperma concavum</i>	Sand-hill Sword-sedge	1
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	1
<i>Acrotriche serrulata</i>	Honey-pots	1
<i>Amperea xiphoclada</i>	Broom Spurge	1
<i>Gonocarpus tetragynus</i>	Common Raspwort	1
<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree	1
Ferns		
<i>Pteridium esculentum</i>	Austral Bracken	3

STRUCTURE: Open woodland.

DISTRIBUTION / ENVIRONMENT: Mostly well-drained sandy loams or sandy clay loams derived from Quaternary sands, Devonian granite and various sedimentary geologies. Widespread throughout Frankston although depleted and poorly reserved in the region. Some good examples in Langwarrin Flora and Fauna Reserve, The Pines Flora and Fauna Reserve.

EVC 3: Damp Sands Herb-rich Woodland**Conservation Status:** Vulnerable

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus viminalis</i> ssp. <i>pyoriana</i>	Coast Manna Gum	4
Shrubs		
<i>Leptospermum continentale</i> s.l.	Prickly Tea-tree	2
<i>Leptospermum myrsinoides</i>	Silky Tea-tree	2
<i>Bossiaea cinerea</i>	Wiry Bossiaea	2
<i>Banksia marginata</i>	Silver Banksia	2
<i>Epacris impressa</i>	Common Heath	1
<i>Astroloma humifusum</i>	Cranberry Heath	1
Herbs and graminoids		
<i>Dianella admixta</i>	Black-anther Flax-lily	2
<i>Lepidosperma concavum</i>	Sand-hill Sword-sedge	2
<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass	2
<i>Poranthera microphylla</i>	Small Poranthera	1
<i>Acrotriche serrulata</i>	Honey-pots	1
<i>Opercularia varia</i>	Stinking Pennywort	1
<i>Gonocarpus tetragynus</i>	Common Raspwort	1
Ferns		
<i>Pteridium esculentum</i>	Austral Bracken	2

STRUCTURE: Open woodland.**DISTRIBUTION / ENVIRONMENT:** Subdued dunes and moderately fertile, moderately well-drained sandy loams. Fairly restricted in the study area. A few small occurrences in the north and north-east of the municipality.

EVC 710: Damp Heathland**Conservation Status:** Rare**Typical Indigenous Species**

Species	Common Name	Indicative Abundance
Shrubs		
<i>Leptospermum continentale s.l.</i>	Prickly Tea-tree	3
<i>Allocasuarina paludosa</i>	Scrub Sheoak	3
<i>Banksia marginata</i>	Silver Banksia	2
<i>Hibbertia sericea</i>	Silky Guinea-flower	2
Herbs and graminoids		
<i>Selaginella uliginosa</i>	Swamp Selaginella	2
<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree	2
<i>Acrotriche serrulata</i>	Honey-pots	1
<i>Gonocarpus tetragynus</i>	Common Raspwort	1

STRUCTURE: Closed tall heathland – closed scrub.

DISTRIBUTION / ENVIRONMENT: Impeded drainage swales on sandy duplex soils.

EVC 793: Damp Heathy Woodland**Conservation Status:** Vulnerable

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus cephalocarpa</i>	Silver-leaf Stringybark	3
<i>Eucalyptus radiata</i>	Small-leaved Peppermint	2
<i>Eucalyptus ovata</i>	Swamp Gum	2
Shrubs		
<i>Leptospermum continentale s.l.</i>	Prickly Tea-tree	2
<i>Ozothamnus ferrugineus</i>	Tree Everlasting	2
<i>Kunzea ericoides</i>	Burgan	2
<i>Banksia marginata</i>	Silver Banksia	2
<i>Epacris impressa</i>	Common Heath	1
<i>Hibbertia riparia</i>	Erect Guinea-flower	1
Herbs and graminoids		
<i>Lepidosperma filiforme</i>	Common Rapier Sword-sedge	2
<i>Themeda triandra</i>	Kangaroo Grass	2
<i>Xanthorrhoea minor ssp. lutea</i>	Small Grass-tree	2
<i>Acrotriche serrulata</i>	Honey-pots	1
<i>Gonocarpus tetragynus</i>	Common Raspwort	1
Ferns		
<i>Pteridium esculentum</i>	Austral Bracken	3

STRUCTURE: Open woodland to closed heath.**DISTRIBUTION / ENVIRONMENT:** Gently undulating to flat areas on poorly drained sandy loams of Tertiary or Ordovician origin. Scattered across the study area with occurrences recorded at Bunarong Reserve, Frankston Golf Club, Langwarrin Flora and Fauna Reserve and the Pines Flora and Fauna Reserve.

EVC 191: Riparian Scrub**Conservation Status:** Vulnerable

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus ovata</i>	Swamp Gum	1
Shrubs		
<i>Melaleuca squarrosa</i>	Scented Paperbark	4
Herbs and graminoids		
<i>Baumea tetragona</i>	Square Twig-sedge	2
<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge	2
<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge	2
<i>Empodisma minus</i>	Spreading Rope-rush	2
Ferns		
<i>Gleichenia microphylla</i>	Scrambling Coral-fern	1
<i>Calochlaena dubia</i>	Common Ground-fern	1

STRUCTURE: Tall closed scrub.

DISTRIBUTION / ENVIRONMENT: Seasonally inundated sites with prolonged waterlogging, generally associated with drainage swales or swampy depressions. Substrates are generally of low fertility. Scattered throughout Frankston, Langwarrin and Skye, with representative examples in Langwarrin Flora and Fauna Reserve, The Pines Flora and Fauna Reserve and Boggy Creek.

EVC 53-61: Swamp Scrub**Conservation Status:** Vulnerable

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus ovata</i>	Swamp Gum	1
Shrubs		
<i>Melaleuca ericifolia</i>	Swamp Paperbark	4
<i>Leptospermum continentale s.l.</i>	Prickly Tea-tree	2
<i>Acacia verticillata var. verticillata</i>	Prickly Moses	1
<i>Leptospermum lanigerum</i>	Woolly Tea-tree	1
Herbs and graminoids		
<i>Carex appressa</i>	Tall Sedge	2
<i>Carex fascicularis</i>	Tassel Sedge	2
<i>Crassula helmsii</i>	Swamp Crassula	2
<i>Eleocharis acuta</i>	Common Spike-sedge	2
<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge	2
<i>Phragmites australis</i>	Common Reed	1

STRUCTURE: Tall closed scrub.

DISTRIBUTION / ENVIRONMENT: Seasonally inundated sites with prolonged waterlogging, generally associated with stream terraces or swampy depressions. Substrates are mostly derived from Quaternary alluvium and are moderately fertile. Small remnants scattered throughout Frankston.

EVC 83: Swampy Riparian Woodland**Conservation Status:** Endangered

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus ovata</i>	Swamp Gum	3
<i>Acacia melanoxydon</i>	Blackwood	2
<i>Eucalyptus radiata</i>	Narrow-leaf Peppermint	2
Shrubs		
<i>Leptospermum continentale</i>	Prickly Tea-tree	2
<i>Bursaria spinosa</i>	Sweet Bursaria	2
<i>Coprosma quadrifida</i>	Prickly Currant-bush	2
<i>Melaleuca ericifolia</i>	Swamp Paperbark	2
<i>Ozothamnus ferrugineus</i>	Tree Everlasting	2
<i>Acacia verticillata</i> var. <i>verticillata</i>	Prickly Moses	2
Herbs and graminoids		
<i>Gahnia radula</i>	Thatch Saw-sedge	2
<i>Lepidosperma laterale</i> var. <i>majus</i>	Variable Sword-sedge	2
<i>Poa labillardieri</i>	Common Saw-sedge	2
<i>Dianella tasmanica</i>	Tasman Flax-lily	1
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	1
Ferns		
<i>Pteridium esculentum</i>	Austral Bracken	2

STRUCTURE: Open woodland to closed scrub.**DISTRIBUTION / ENVIRONMENT:** Seasonally waterlogged lowland drainage lines and depressions, infrequently flooded. Soils are variable but are mostly derived from Quaternary alluvium or colluvial material from sedimentary geologies. Scattered throughout the south of the Municipality.

EVC 902: Gully Woodland**Conservation Status:** Endangered

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus ovata</i>	Swamp Gum	2
<i>Acacia mearnsii</i>	Black Wattle	2
<i>Acacia melanoxylon</i>	Blackwood	2
<i>Eucalyptus radiata</i>	Narrow-leaf Peppermint	2
<i>Allocasuarina littoralis</i>	Black Sheoak	1
Shrubs		
<i>Melaleuca ericifolia</i>	Swamp Paperbark	2
<i>Ozothamnus ferrugineus</i>	Tree Everlasting	2
<i>Coprosma quadrifida</i>	Prickly Currant-bush	2
<i>Rubus parvifolius</i>	Small-leaf Bramble	2
<i>Acacia verticillata</i> var. <i>verticillata</i>	Prickly Moses	1
Herbs and graminoids		
<i>Gahnia radula</i>	Thatch Saw-sedge	2
<i>Lepidosperma laterale</i> var. <i>laterale</i>	Variable Sword-sedge	2
<i>Poa labillardieri</i>	Common Saw-sedge	2
<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass	2
<i>Dianella tasmanica</i>	Tasman Flax-lily	1
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	1
Climbers		
<i>Pandorea pandorana</i>	Wonga Vine	2
Ferns		
<i>Pteridium esculentum</i>	Austral Bracken	2
<i>Adiantum aethiopicum</i>	Common Maidenhair	2

STRUCTURE: Woodland with sedge and grass dominated understorey.

DISTRIBUTION / ENVIRONMENT: Well-drained silty sands from Sedimentary geology. Found in moderately steep gullies along watercourses.

Typically invaded by a range of invasive weed species and consequently rarely present as intact remnants – typical examples in Frankston Reservoir and the nearby Overport Park.

EVC 938: Shrubby Gully Forest**Conservation Status:** Vulnerable

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus ovata</i>	Swamp Gum	3
<i>Eucalyptus radiata</i>	Narrow-leaf Peppermint	2
<i>Acacia melanoxydon</i>	Blackwood	2
Shrubs		
<i>Leptospermum continentale</i>	Prickly Tea-tree	2
<i>Melaleuca ericifolia</i>	Swamp Paperbark	2
<i>Ozothamnus ferrugineus</i>	Tree Everlasting	2
<i>Coprosma quadrifida</i>	Prickly Currant-bush	2
<i>Goodenia ovata</i>	Hop Goodenia	2
Herbs and graminoids		
<i>Gahnia radula</i>	Thatch Saw-sedge	2
<i>Poa morrisii</i>	Soft Tussock-grass	2
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	1
Ferns		
<i>Calochlaena dubia</i>	Common Ground-fern	2
<i>Polystichum proliferum</i>	Mother Shield-fern	2

STRUCTURE: Woodland with moderately to very dense shrub layer.**DISTRIBUTION / ENVIRONMENT:** This EVC has affinities with Gully Woodland and it can be difficult to differentiate between the two when weed species are dominant (as is usually the case in the study area, with *Blackberry being a frequent dominant species). Well-drained sandy soils along minor watercourses. Low fertility relative to Gully Woodland. Recorded for Sweetwater Creek Reserve.

EVC 175: Grassy Woodland**Conservation Status:** Endangered

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus cephalocarpa</i>	Silver-leaf Stringybark	2
<i>Eucalyptus viminalis</i> ssp. <i>pyroriana</i>	Coast Manna Gum	2
<i>Acacia mearnsii</i>	Black Wattle	2
<i>Eucalyptus ovata</i>	Swamp Gum	2
<i>Eucalyptus pauciflora</i>	Snow Gum	2
<i>Eucalyptus radiata</i>	Narrow-leaf Peppermint	2
<i>Allocasuarina littoralis</i>	Black Sheoke	1
<i>Allocasuarina verticillata</i>	Drooping Sheoke	1
Shrubs		
<i>Acacia paradoxa</i>	Hedge Wattle	2
<i>Leptospermum continentale</i> s.l.	Prickly Tea-tree	2
<i>Bossiaea prostrata</i>	Creeping Bossiaea	1
Herbs and graminoids		
<i>Themeda triandra</i>	Kangaroo Grass	3
<i>Austrodanthonia</i> spp.	Wallaby-grasses	2
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush	2
<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass	2
<i>Gahnia radula</i>	Thatch Saw-sedge	1
<i>Lepidosperma laterale</i>	Variable Sword-sedge	1
<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree	1
Ferns		
<i>Pteridium esculentum</i>	Austral Bracken	1

STRUCTURE: Open woodland.**DISTRIBUTION / ENVIRONMENT:** Rolling and dissected hills on relatively well-drained duplex soils, predominantly derived from Baxter sandstone. Scattered through the south of Frankston, particularly in the south-west (e.g. Paratea Reserve and Frankston Reservoir).

EVC 127: Valley Heathy Forest**Conservation Status:** Endangered**Typical Indigenous Species**

Species	Common Name	Indicative Abundance
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Trees

<i>Eucalyptus cephalocarpa</i>	Silver-leaf Stringybark	3
<i>Eucalyptus radiata</i>	Narrow-leaf Peppermint	3
<i>Eucalyptus obliqua</i>	Messmate	2
<i>Acacia melanoxyton</i>	Blackwood	2
<i>Exocarpos cupressiformis</i>	Cherry Ballart	2

Shrubs

<i>Leptospermum continentale s.l.</i>	Prickly Tea-tree	2
<i>Acacia paradoxa</i>	Hedge Wattle	1
<i>Acrotriche serrulata</i>	Honey-pots	1
<i>Banksia marginata</i>	Silver Banksia	1
<i>Bossiaea prostrata</i>	Creeping Bossiaea	1
<i>Epacris impressa</i>	Common Heath	1
<i>Cassinia aculeata</i>	Common Cassinia	1
<i>Platylobium obtusangulum</i>	Common Flat-pea	1

Herbs and graminoids

<i>Gahnia radula</i>	Thatch Saw-sedge	3
<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass	2
<i>Poa morrisii</i>	Soft Tussock-grass	2
<i>Themeda triandra</i>	Kangaroo Grass	2
<i>Dianella admixta</i>	Black-anther Flax-lily	1
<i>Lomandra filiformis s.l.</i>	Wattle Mat-rush	1
<i>Xanthorrhoea minor</i> ssp. <i>lutea</i>	Small Grass-tree	1

STRUCTURE: Open woodland to low open forest.**DISTRIBUTION / ENVIRONMENT:** Gentle slopes and rises on poorly drained sandy clay or sandy clay loams derived from Silurian sediments. Largely restricted to the south east of the study area (Langwarrin area) where common.

EVC 55: Plains Grassy Woodland**Conservation Status:** Endangered**Typical Indigenous Species**

Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus camaldulensis</i>	River Red Gum	2
<i>Acacia mearnsii</i>	Black Wattle	1
<i>Acacia melanoxylon</i>	Blackwood	1
<i>Allocasuarina littoralis</i>	Black Sheoak	1
Shrubs		
<i>Acacia paradoxa</i>	Hedge Wattle	1
Herbs and graminoids		
<i>Themeda triandra</i>	Kangaroo Grass	2
<i>Poa labillardieri</i>	Common Tussock-grass	2
<i>Carex breviculmis</i>	Short-stem Sedge	1

STRUCTURE: Open woodland.

DISTRIBUTION / ENVIRONMENT: Gently undulating plains on soils derived from Quaternary sediments. Occurs on the Frankston Freeway reserve (the most intact remnant) and margins of Seaford Wetlands in the north of the Municipality, with minor occurrences elsewhere.

EVC 937: Swampy Woodland**Conservation Status:** Endangered

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus ovata</i>	Swamp Gum	2
<i>Eucalyptus cephalocarpa</i>	Silver-leaf Stringybark	2
<i>Acacia melanoxylon</i>	Blackwood	2
<i>Eucalyptus radiata</i>	Narrow-leaf Peppermint	2
Shrubs		
<i>Leptospermum continentale s.l.</i>	Prickly Tea-tree	3
<i>Melaleuca ericifolia</i>	Swamp Paperbark	2
<i>Ozothamnus ferrugineus</i>	Tree Everlasting	2
Herbs and graminoids		
<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge	2
<i>Carex appressa</i>	Tall Sedge	2
<i>Lepidosperma laterale</i>	Variable Sword-sedge	2
<i>Phragmites australis</i>	Common Reed	2
<i>Poa tenera</i>	Slender Tussock-grass	1
<i>Juncus holoschoenus</i>	Joint-leaf Rush	1
Ferns		
<i>Pteridium esculentum</i>	Austral Bracken	2

STRUCTURE: Open woodland.**DISTRIBUTION / ENVIRONMENT:** Seasonally waterlogged, poorly drained lowland sites, especially on Quaternary swamp deposits. Various degraded remnants present throughout the municipality, particularly in Frankston and Langwarrin, e.g. Belvedere Reserve, Studio Park, DPI – Frankston.

EVC 125: Plains Grassy Wetland**Conservation Status:** Endangered

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Trees		
<i>Eucalyptus ovata</i>	Swamp Gum	2
<i>Eucalyptus camaldulensis</i>	River Red Gum	2
Herbs and graminoids		
<i>Villarsia reniformis</i>	Running Marsh-flower	2
<i>Myriophyllum</i> sp.	Water Milfoil	2
<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass	2
<i>Baumea arthrophylla</i>	Fine Twig-sedge	2
<i>Eleocharis acuta</i>	Common Spike-sedge	2
<i>Poa labillardieri</i>	Common Tussock-grass	2

STRUCTURE: Herbfield to Sedgeland.

DISTRIBUTION / ENVIRONMENT: Seasonally flooded depressions. Rare in the study area and restricted to small areas in the north, e.g. Seaford Wetlands and Frankston Freeway Reserve.

EVC 821: Tall Marsh**Conservation Status:** Endangered**Typical Indigenous Species**

Species	Common Name	Indicative Abundance
Herbs and Graminoids		
<i>Phragmites australis</i>	Common Reed	3
<i>Schoenoplectus tabernaemontani</i>	River Club-sedge	3
<i>Typha</i> spp.	Cumbungi	3
<i>Juncus</i> spp.	Rushes	3
<i>Calystegia sepium</i>	Large Bindweed	2
<i>Myriophyllum</i> spp.	Water-milfoil	2

STRUCTURE: Rushland or sedgeland, occasionally with scattered trees.

DISTRIBUTION / ENVIRONMENT: Permanent or semi-permanent natural or artificial waterbodies (brackish to freshwater). Substrates generally organic-rich Quaternary swamp sediments. Not common in Frankston – best examples in Seaford Wetlands.

EVC 653: Aquatic Herbland**Conservation Status:** Endangered

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Herbs and Graminoids		
<i>Myriophyllum simulans</i>	Amphibious Water-milfoil	3
<i>Eleocharis sphacelata</i>	Tall Spike-sedge	3
<i>Triglochin procerum s.l.</i>	Broad-leaf Water-ribbons	2
<i>Phragmites australis</i>	Common Reed	2
<i>Baumea arthrophylla</i>	Fine Twig-sedge	2
<i>Villarsia reniformis</i>	Running Marsh-flower	2
<i>Typha orientalis</i>	Cumbungi	2
<i>Potamogeton</i> spp.	Pondweed	2
<i>Juncus</i> spp.	Rushes	2

STRUCTURE: Herbland to Sedgeland.

DISTRIBUTION / ENVIRONMENT: Submerged and emergent aquatic and amphibious herbfield. Permanent or semi-permanent natural or artificial waterbodies. Substrates generally organic rich Quaternary swamp sediments. Not common in Frankston – best examples in Seaford Wetlands.

EVC 537: Brackish Aquatic Herbland**Conservation Status:** Vulnerable

Typical Indigenous Species		
Species	Common Name	Indicative Abundance
Herbs and Graminoids		
<i>Myriophyllum spp.</i>	Water-milfoil	3
<i>Triglochin procerum</i>	Water Ribbons	3
<i>Potamogeton spp.</i>	Pondweed	3
<i>Ruppia polycarpa</i>	Many-fruit Tassel	2
<i>Lilaeopsis polyantha</i>	Australian Lilaeopsis	2
<i>Bolboschoenus caldwellii</i>	Salt Club-sedge	2
<i>Lepilaena spp.</i>	Water-mat	2

STRUCTURE: Herbfield with some taller emergents.**DISTRIBUTION / ENVIRONMENT:** Permanent or semi-permanent brackish, natural or artificial waterbodies. Substrates generally organic-rich Quaternary swamp sediments. Rare in study area, best represented in Seaford Wetlands.

EVC 656: Brackish Wetland**Conservation Status:** Rare**Typical Indigenous Species**

Species	Common Name	Indicative Abundance
Herbs and Graminoids		
<i>Bolboschoenus caldwellii</i>	Salt Club-sedge	3
<i>Juncus kraussii</i>	Sea Rush	3
<i>Eleocharis acuta</i>	Common Spike-sedge	2
<i>Selliera radicans</i>	Shiny Swamp-mat	2
<i>Samolus repens</i>	Creeping Brookweed	2
<i>Triglochin striatum</i>	Streaked Arrow-grass	2
<i>Distichlis distichophylla</i>	Australian Salt-grass	2
<i>Baumea</i> spp.	Twig-sedges	2

STRUCTURE: Sedgeland or herbfield.**DISTRIBUTION / ENVIRONMENT:** More saline than Brackish Aquatic Herbland. Occurs on poorly drained substrates with coastal influence as found on Quaternary Swamp sediments in the study area at Seaford Wetlands.

4.3 Significance of vegetation

It should be noted that all remnant indigenous vegetation and populations of indigenous plant species in the study area have at least local conservation significance given the considerable depletion and conservation status of most vegetation types in the municipality and the Gippsland Plain Bioregion.

The Conservation Status of EVCs was outlined in Section 4.1, above. The Conservation Significance of each EVC in each site was determined as described in Section 3.4 and is mapped in Figure 2.

It is outside the scope of the current study to record rare or threatened species, but the most significant recorded for the DRA and remnant sites are discussed below.

Rare or threatened plant species

Twenty two rare or threatened plant species (DSE 2005) have been recorded for the Frankston municipality in the Data Review Area (DRA). Of these, only four were recorded in our delineated remnant sites. One other species is not in the DRA records for the study area, *Pterostylis tasmanica* Southern Plume-orchid, but has been recorded in Langwarrin Flora and Fauna Reserve (Leon Costermans pers. comm.).

One species, *Glycine latrobeana* Clover Glycine is EPBC- and FFG-listed and was recorded in Site 4: Upper Sweetwater Creek.

Diuris punctata var. *punctata*, Purple Diuris is also FFG listed and has been recorded in Site 22: Langwarrin Flora and Fauna Reserve.

Two other State significant orchids also occur in remnant sites: *Pterostylis pedoglossa* Prawn Greenhood and *Caladenia venusta* Large White Spider-orchid were recorded in Langwarrin Flora and Fauna Reserve and The Pines Flora and Fauna Reserve (Site 39), respectively.

Spiranthes australis Austral Ladies Tresses was previously listed as a significant species by DSE but is no longer listed. It is at least regionally significant however and occurs in Langwarrin Flora and Fauna Reserve and Willow Road Reserve - Site 17, (Leon Costermans pers. comm.).

The following table (Table 1) lists the species recorded or potentially present in remnant sites.

Locally significant species have not been included but would be useful on a site by site basis for land managers. Appendix 4 may be used by interested groups to add such data where required.

Table 1. Significant plant species recorded in the Frankston municipality and their presence in remnant sites.

Data from: Flora Information System, Biodiversity and Natural Resources, DSE - May 2005 - © Viridans Biol. Databases.

Species	Common Name	Significance			Location (Site No.)
		EPBC	FFG	DSE	
National Significance					
<i>Caladenia robinsonii</i>	Frankston Spider-orchid	E		e	NR
<i>Glycine latrobeana</i>	Clover Glycine	V	L	v	Upper Sweetwater Ck (4)
<i>Senecio psilocarpus</i>	Swamp Fireweed	V		v	NR
State Significance					
<i>Austrofestuca littoralis</i>	Coast Fescue			r	Seaford F. Res. (25), Sweetwater Ck Res. (6), Kananook Ck Res (27)
<i>Burnettia cuneata</i>	Lizard Orchid			r	NR
<i>Caladenia dilatata</i> s.s.	Green-comb Spider-orchid			k	L'warrin Fl. & F. Res. (22), Paratea Res (2), The Pines Fl. & F. Res. (39), Studio Park (46), S'water Ck Res. (6), Bunarong Park (16)
<i>Caladenia venusta</i>	Large White Spider-orchid			r	Pines Fl. & F. Res. (39)
<i>Chiloglottis x pescottiana</i>	Bronze Bird-orchid			r	NR
<i>Chorizandra australis</i>	Southern Bristle-sedge			k	Pines Fl. & F. Res. (39)
<i>Corybas fimbriatus</i>	Fringed Helmet-orchid			r	NR
<i>Diuris punctata</i> var. <i>punctata</i>	Purple Diuris		L	v	L'warrin Fl. & F. Res. (22)
<i>Eleocharis macbarronii</i>	Grey Spike-sedge			k	NR
<i>Entolasia stricta</i>	Upright Panic			k	NR
<i>Eucalyptus fulgens</i>	Green Scentbark			r	NR
<i>Helichrysum</i> aff. <i>rutidolepis</i> (L. Swamps)	Pale Swamp Everlasting			v	NR
<i>Lachnagrostis filiformis</i> var. 2	Wetland Blown-grass			k	NR
<i>Lachnagrostis punicea</i> ssp. <i>filifolia</i>	Purple Blown-grass			r	NR
<i>Poa labillardierei</i> var. (Volc. Plains)	Basalt Tussock-grass			k	NR
<i>Prasophyllum lindleyanum</i>	Green Leek-orchid				NR
<i>Pterostylis pedoglossa</i>	Prawn Greenhood			v	L'warrin Fl. & F. Res. (22)
<i>Pterostylis X toveyana</i>	Mentone Greenhood			v	NR
<i>Pterostylis tasmanica</i> ^{LC}	Southern Plume-orchid			k	L'warrin F& F Res (22)
<i>Ranunculus amplus</i>	Feather-leaf Buttercup			r	Kananook Ck Res (27)

National Significance: EPBC / DSE categories - E = Endangered; Vul = Vulnerable (DSE 2005).

State significance: FFG listings: L = listed

DSE rare or threatened categories: e = endangered; r = rare; v = vulnerable; k = insufficient data (DSE 2005).

NR - Not recorded in remnant sites

LC Leon Costermans pers. comm.

5 Management Issues

It is beyond the scope of this study to detail the management issues associated with remnant vegetation in Frankston. All remnant vegetation requires management to ensure its ongoing survival and it is hoped that the remnant vegetation sites documented in this report will be accorded the requisite level of management intervention in order to maintain and enhance their biological values.

In the course of field work the following threats to the survival of remnant vegetation were consistently noted:

- Removal of vegetation;
- Clearing or slashing of understorey beneath trees, which tends to reduce, often dramatically, the significance of the remnant;
- Weed invasion, in particular Coast/Sallow Wattle (*Acacia longifolia* s.l.) and Coast Tea-tree (*Leptospermum laevigatum*), away from the coastal fringe;
- Many other serious environmental and noxious weeds;
- Grazing;
- Pest animals (particularly cats and foxes);
- Altered hydrology, e.g. dam construction, drainage of swampy areas.

Apart from clearing of remnants, weed invasion and the degradation it causes, is by far the most important issue threatening biological values in the municipality. A table of the most serious environmental weed species is presented below (Table 2).

Table 2. Major environmental weed species requiring control in remnant vegetation in Frankston.

Note: Generally, woody species (trees and shrubs) have been listed, with only the most serious of herbaceous species. Although many other herbaceous species (particularly grasses) may have devastating ecological impacts, their control is usually impracticable.

STATUS	SPECIES	COMMON NAME	
+	<i>Acacia longifolia s.l.</i>	Sallow Wattle / Coast Wattle	
	<i>Acetosa sagittata</i>	Climbing Dock	
R	<i>Asparagus asparagoides</i>	Smilax Asparagus	
	<i>Asparagus scandens</i>	Asparagus	
	<i>Acacia baileyana</i>	Cootamundra Wattle	
	<i>Acacia elata</i>	Cedar Wattle	
	<i>Acacia floribunda</i>	White Sallow Wattle	
	<i>Agapanthus praecox ssp. orientalis</i>	Agapanthus	
	<i>Angophora costata</i>	Smooth Angophora	
	<i>Arbutus unedo</i>	Irish Strawberry Tree	
	C	<i>Calicotoma spinosa</i>	Spiny Broom
		<i>Buddleja dysophylla</i>	Chilianthus
	C	<i>Chrysanthemoides monilifera ssp. monilifera</i>	Boneseed
	C	<i>Cirsium vulgare</i>	Spear Thistle
<i>Coprosma repens</i>		Mirror-bush	
	<i>Coprosma robusta</i>	Large Coprosma	
	<i>Cortaderia jubata/selloana</i>	Pampas Grass	
	<i>Cotoneaster glaucophyllus</i>	Large-leaf Cotoneaster	
	<i>Cotoneaster pannosus</i>	Velvet-leaf Cotoneaster	
C	<i>Crataegus monogyna</i>	Hawthorn	
	<i>Crocsmia x crocosmiiflora</i>	Montbretia	
	<i>Cytisus palmensis</i>	Tree Lucerne	
C	<i>Cytisus scoparius</i>	English Broom	
	<i>Delairea odorata</i>	Ivy Groundsel	
	<i>Dipogon lignosus</i>	Common Dipogon	
C	<i>Echium plantagineum</i>	Paterson's Curse	
	<i>Erica baccans</i>	Berry-flower Heath	
	<i>Erica lusitanica</i>	Spanish Heath	
C	<i>Foeniculum vulgare</i>	Fennel	
	<i>Fraxinus angustifolia ssp. angustifolia</i>	Desert Ash	
C	<i>Genista linifolia</i>	Flax-leaf Broom	
C	<i>Genista monspessulana</i>	Montpellier Broom	
	<i>Genista (garden hybrid)</i>	Garden Broom	
	<i>Gladiolus tristis</i>	Evening-flower Gladiolus	
	<i>Gladiolus undulatus</i>	Wild Gladiolus	
	<i>Hakea salicifolia</i>	Willow-leaf Hakea	
	<i>Hakea suaveolens</i>	Sweet Hakea	

STATUS	SPECIES	COMMON NAME
	<i>Hedera helix</i>	Ivy
	<i>Ipomoea indica</i>	Morning-glory
+	<i>Leptospermum laevigatum</i>	Coast Tea-tree
	<i>Leucanthemum vulgare</i>	Ox-eye Daisy
	<i>Ligustrum lucidum</i>	Large-leaf Privet
	<i>Lonicera japonica</i>	Japanese Honeysuckle
C	<i>Lycium ferocissimum</i>	African Box-thorn
	<i>Malus pumila</i>	Domestic Apple
P	<i>Marrubium vulgare</i>	Horehound
	<i>Melaleuca armillaris</i>	Bracelet Honey-myrtle
	<i>Olea europaea ssp. Africana</i>	African Olive
	<i>Paraserianthes lophantha</i>	Cape Wattle
	<i>Phytolacca octandra</i>	Ink Weed
	<i>Pinus radiata</i>	Monterey Pine
	<i>Pittosporum undulatum</i>	Sweet Pittosporum
	<i>Pinus pinaster</i>	Maritime Pine
	<i>Polygala myrtifolia</i>	Myrtle-leaf Milkwort
	<i>Prunus cerasifera</i>	Cherry Plum
	<i>Pyracantha angustifolia</i>	Narrow-leaf Firethorn
	<i>Pyracantha crenulata</i>	Firethorn
	<i>Quercus robur</i>	English Oak
	<i>Rhamnus alaternus</i>	Italian Buckthorn
C	<i>Rosa rubiginosa</i>	Sweet Briar
C	<i>Rubus anglocandidans</i>	Blackberry
P	<i>Rubus fruticosus</i> spp. agg.	Blackberry
R	<i>Salix</i> spp.	Willows
	<i>Senecio angulatus</i>	Climbing Groundsel
C	<i>Senecio jacobaea</i>	Ragwort
	<i>Solanum mauritianum</i>	Wild Tobacco Tree (Tobacco Nightshade)
	<i>Sollya heterophylla</i>	Bluebell Creeper
	<i>Tradescantia fluminensis</i>	Wandering Jew
C	<i>Ulex europaeus</i>	Gorse
	<i>Vinca major</i>	Blue Periwinkle
C	<i>Watsonia meriana</i> var. 'bulbillifera'	Bulbil Watsonia
	<i>Zantedeschia aethiopica</i>	White Arum Lily

Shaded species are the most abundant.

- + Ecologically 'out-of-balance' indigenous species which are natural members of Coastal EVCs, but weedy outside the coastal context.
- C Denotes Regionally controlled weeds under the Catchment and Land Protection Act 1994
- P Denotes Regionally prohibited weeds under the Catchment and Land Protection Act 1994
- R Denotes Regionally restricted weeds under the Catchment and Land Protection Act 1994.

6 Review of legislation and planning controls relating to native vegetation

The main legislation and policies relating to the protection and management of native vegetation at national, State and regional levels are outlined below, followed by a review of the current provisions for native vegetation in the Frankston Planning Scheme.

6.1 Legislation and policies for native vegetation protection

6.1.1 National

The Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* establishes processes for listing and protecting threatened species & ecological communities, and creating protected areas including World Heritage and Ramsar listed sites. Amongst other things, the EPBC Act makes it an offence for any person to take an action that is likely to have a significant impact on matters protected by the Act, unless they have the approval of the Australian Minister for the Environment and Heritage. Those protected matters include matters of National Environmental Significance (NES matters), as well as the environment of Commonwealth land.

NES matters include listed nationally threatened species and communities, wetlands listed under the Ramsar Convention, and migratory species protected under international agreements. Proposed actions must be referred to the Commonwealth Environment Minister, either by the proponent, or by a State, Territory or Commonwealth Minister or government agency with responsibilities relating to the proposed action. If a proposal is declared to be a 'controlled action', then an assessment of its effects will be required, and it may not proceed until approved (with or without conditions) by the Commonwealth Minister for the Environment. There are opportunities for public submissions through this process.

A local government is only obliged to refer an action that the local government itself proposes to take. Local government works activities involving, for example, clearing native vegetation, changing the natural flow of water, or controlling weeds and other pests should be referred to the Environment Minister if it is likely the action would have a significant impact on a matter protected under the EPBC Act. Planning instruments and decisions do not need approval under the EPBC Act. While it is the responsibility of proponents to ensure that they have all the necessary approvals before taking an action, local governments are encouraged to tell proponents that some actions may need Commonwealth approval under the EPBC Act (see <http://www.deh.gov.au/epbc/index.html>).

A search of the EPBC Act database for NES matters in the City of Frankston as of 4 April 2006 produced the following summary:

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Significance: (Ramsar Sites)	2
Commonwealth Marine Areas:	Relevant
Threatened Ecological Communities:	None
Threatened Species:	35
Migratory Species:	25

The *National Strategy for the Conservation of Australia's Biological Diversity* was agreed to in 1996 as part of Australia's responsibilities under the International Convention on Biological Diversity (1992). It provides a framework for Commonwealth and State government biodiversity protection activities. The Strategy aims to close the gap between what is presently being done and what needs to be done to identify and conserve Australia's biodiversity. The Strategy covers six specific areas, with identified targets under each. These areas are:

- developing better management strategies for biodiversity at a regional level;
- improving the knowledge and management practices of the agriculture, fisheries, forestry, water and tourism industries;
- improving management of the various threats to biodiversity;
- improving our understanding of biodiversity, including incorporating the knowledge and traditional practices of Indigenous Australians in biodiversity research and conservation programs;
- involving individuals and groups in its conservation;
- participating in international agreements.

The Commonwealth, State and Territory governments committed themselves in 1997, through the Natural Heritage Trust, to reverse the long-term decline in the quality and extent of Australia's native vegetation. The *National Framework for the Management and Monitoring of Australia's Native Vegetation*, completed in December 1999, is an initiative of the Australian and New Zealand Environment and Conservation Council. Part of the Framework requires that work plans be prepared and adopted for each jurisdiction (Commonwealth, State and Territories) that describe actions and timelines, desired native vegetation outcomes, and monitoring and evaluation of performance. The role of local government is noted in the Framework.

6.1.2 State

The primary overarching legislation for biodiversity conservation is the *Flora and Fauna Guarantee Act 1988*. This provides a legal framework for the protection of Victoria's native plants and animals and ecological communities. The aim is to ensure that Victoria's native flora and fauna survive, flourish and retain their potential for evolutionary development in the wild. Action statements are prepared for threatened flora and fauna and potentially threatening processes listed under the Act. The Act requires all public authorities to be administered so as to have regard to the flora and fauna conservation objectives.

Under the State Planning Policy Framework in all planning schemes (Cl. 15.09), decision-making by planning and responsible authorities should assist the conservation of the habitats of threatened and endangered species and communities as identified under the Act, and address potentially threatening processes identified under the Act.

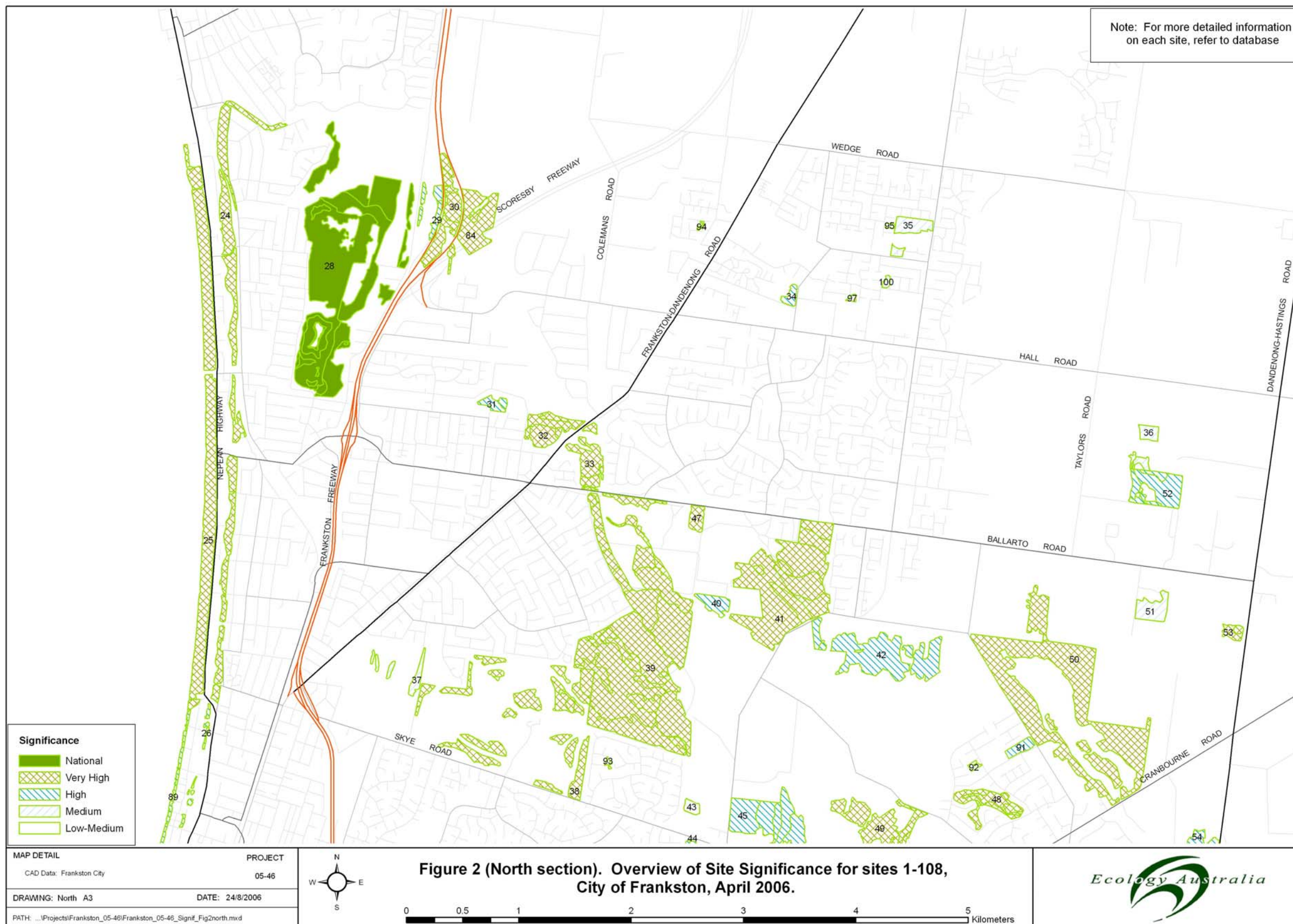
In 1997 the State released its *Biodiversity Strategy* which fulfills a requirement under the Flora and Fauna Guarantee Act to prepare a strategy that includes proposals for ensuring the survival, abundance and development in the wild of all taxa and communities of flora and fauna. The Strategy aims to:

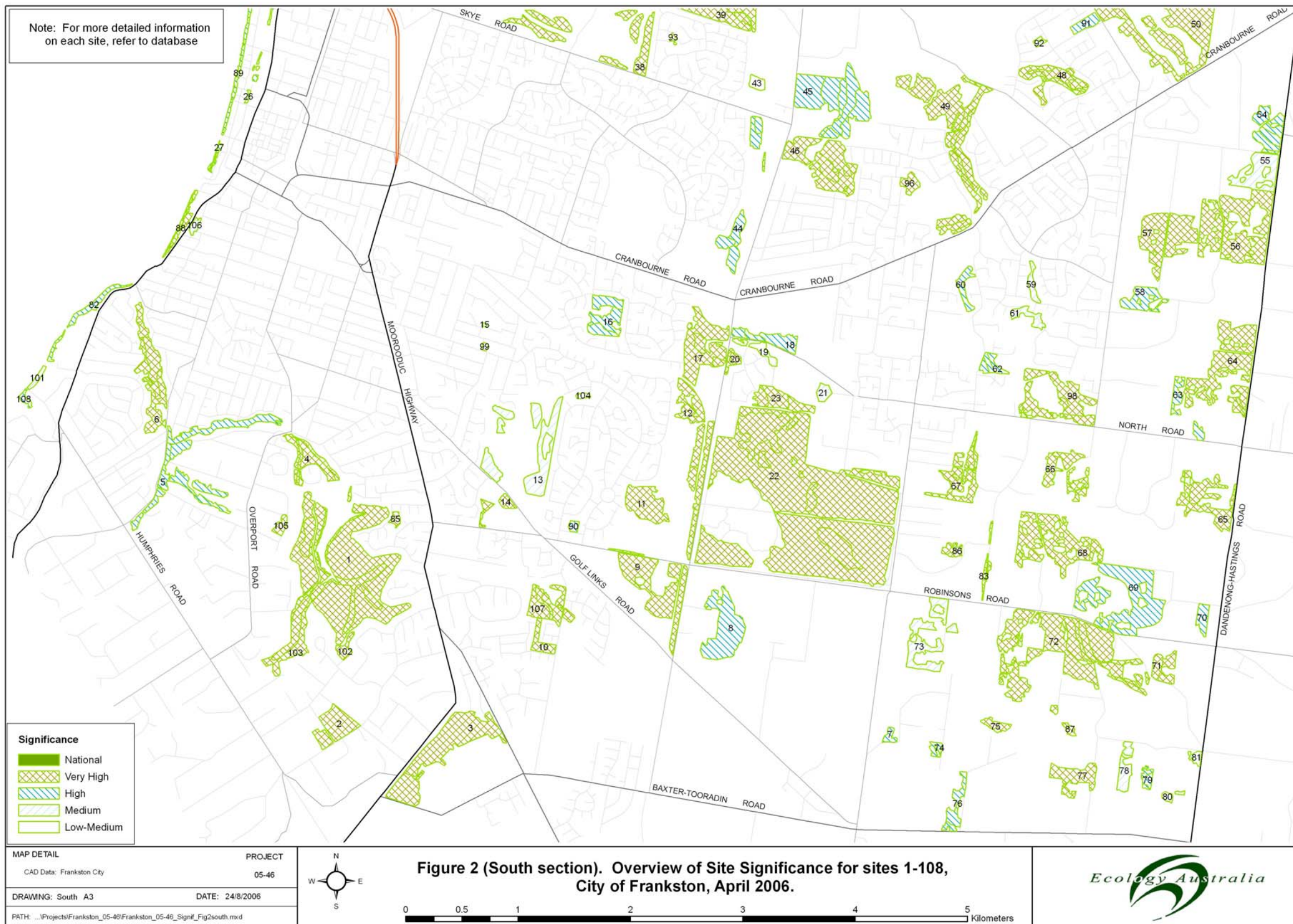
- increase the awareness of the need to conserve biodiversity;
- co-ordinate response within bioregional⁴ networks;
- continue developing partnership between communities, industry and government;
- indicate the existing and proposed mechanisms for achieving the objectives of flora and fauna conservation and management in the context of ecological sustainability;
- detail strategic frameworks to prevent further loss of habitat;
- highlight the habitats, major threatening processes and environments that require urgent attention.

Under the *Planning and Environment Act 1987*, local governments have the responsibility for the control of land use and planning within their municipalities. Local governments are responsible for developing and enforcing a planning scheme for their local area. The scheme sets out policies and requirements for the use, development and protection of land. The format must follow the structure of the **Victoria Planning Provisions (VPP)**, which includes particular provisions in relation to the protection and conservation of native vegetation. The State Planning Policy Framework in the VPP includes an objective: 'to assist the protection and conservation of biodiversity, including native vegetation retention and provision of habitats for native plants and animals and control of pest plants and animals.' Clause 15.09 of the State Planning Policy Framework establishes the requirement for planning authorities to have regard to Victoria's Biodiversity Strategy and other instruments made

⁴ Bioregions are geographical areas with similar physical features such as soils and topography.

under the Flora and Fauna Guarantee Act, as well as approved regional vegetation plans, when reviewing Municipal Strategic Statements and amending planning schemes.





Under S.173 of the Planning and Environment Act, local government can enter into an agreement with a landowner. This provision can be used to protect and manage significant vegetation on sites undergoing development.

Victoria's Native Vegetation Management - A Framework for Action (2002) is a State government policy developed to implement the objectives of Victoria's Biodiversity Strategy and the National Strategy for the Conservation of Australia's Biological Diversity. It establishes the strategic direction for the protection, enhancement and revegetation of native vegetation across the State.

The Framework's main goal is to achieve a reversal, across the entire landscape of the long-term decline in the extent and quality of native vegetation, leading to a net gain.

The Framework includes a set of tools for estimating general vegetation and habitat quality on a consistent statewide basis, and a proposed accounting system to implement the concept of 'net gain'. Net gain refers to a reversal, across the landscape, of the long-term decline in the extent and quality of native vegetation. Net gain will be achieved as a result of landholder and government-assisted efforts to protect and improve native vegetation. In addition, permitted clearing must be offset in a way that adequately addresses the future impacts of such clearing. An offset can take the form of active protection and management of remnant vegetation, or revegetation with indigenous species either on-site or in the same vegetation community nearby.

The policy provisions of the Framework have been incorporated into all Victorian planning schemes (Cl. 15.09 and 81). Local government must have regard to the Framework when considering development or subdivision applications, or planning scheme amendments that may involve native vegetation clearance. A three-step approach is to be used:

1. **Avoid** native vegetation removal.
2. If removal cannot be avoided, **minimise** loss through appropriate planning and design.
3. Identify appropriate **offset** options.

Table 6 in the Framework summarises responses to proposals to clear, and offset criteria are graded according to conservation significance of the vegetation, as summarised below:

Significance of vegetation	Response to clearing proposal	Net Outcome if clearing permitted	Like for Like
Very High	Clearing not permitted unless exceptional circumstances apply ⁵	Substantial net gain (at least 2 x the calculated loss in habitat hectares)	Must be same EVC with similar ecological function <u>and</u> land protection function, and be >90% of quality of vegetation being removed
High	Clearing generally not permitted	Net gain (at least 1.5 x the calculated loss in habitat hectares)	Must be same EVC or Very High significance in same Bioregion and have similar ecological function <u>or</u> land protection function, and be >75% of quality of vegetation being removed
Medium	Clearing generally not permitted	Equivalent net gain (at least 1 x the calculated loss in habitat hectares)	Can be any EVC or Very High or High significance in adjacent Bioregion and have similar ecological function and be >50% of quality of vegetation being removed
Low	Clearing may be permitted as part of sustainable use response as determined by the responsible planning authority	Equivalent net gain (at least 1 x the calculated loss in habitat hectares)	

The Victorian *Weed Management Strategy*, prepared by the State Government in 2002, provides information on the management of all types of weeds including declared and undeclared, agricultural and environmental, terrestrial and aquatic. One of the guiding principles of the Strategy is that weed management is essential in the protection of native vegetation.

All **planning schemes** contain **native vegetation provisions** (Statewide clearing controls, originally introduced in 1989) at Cl. 52.17 in the Particular Provisions. A planning permit is required to remove, destroy or lop native vegetation, unless

- the application is exempt⁶ under the schedule to Cl. 52.17, or
- it is in accordance with an approved native vegetation precinct plan.

The mechanism of a native vegetation precinct plan was introduced into planning schemes in March 2006. Such a plan may form part of a more general strategic or precinct structure plan. It identifies native vegetation to be protected and vegetation to be removed within a defined area, and specifies works or payments necessary to offset the removal of native vegetation. It can secure significant native vegetation as part of regional open space networks and conservation areas. Once a native vegetation precinct plan is incorporated into the planning scheme via an amendment, no permit is required under Cl.52.17 if vegetation removal is in accordance with the plan.

⁵ i.e. impacts are an unavoidable part of a development project, with approval of the Minister for Environment / or delegate, based on considerations of environmental, social and economic values from a statewide perspective.

⁶ An Advisory Committee to the Minister for Planning has recently reported on its review of the exemptions.

Cl. 66 in all planning schemes (amended in March 2006) sets out the types of native vegetation applications that must be referred to the Secretary to the Department of Sustainability and Environment. These include the removal of more than 15 small trees, or more than 5 large trees, more than 0.5ha of an endangered, vulnerable or rare vegetation type, more than 1ha of other native vegetation, or on Crown land managed by the responsible authority. A guide for Department officers undertaking assessments is still being finalised (April 2006).

The Department of Sustainability and Environment has published an **Advisory Note** (*New native vegetation provisions in planning schemes*), and several **VPP Practice Notes** to explain the March 2006 amendments to native vegetation provisions in planning schemes, introduced to assist in implementing the Native Vegetation Management Framework⁷. The Practice Notes are:

Assessing applications involving native vegetation removal

Managing native vegetation in the planning system

Preparing a native vegetation precinct plan

Native vegetation offsets.

The *VPP Planning Practice Note on Biodiversity* (Dept of Infrastructure 2002) encourages and explains the use of planning policies and controls to guide decision-making about new use and development to protect biodiversity, especially on private land. It provides examples of planning tools which can be used in planning schemes.

6.1.3 Regional

Every catchment authority in Victoria has prepared a Native Vegetation Plan. The plans assist in the implementation of Victoria's *Biodiversity Strategy* by aiming to reduce the decline in the extent and quality of native vegetation. The ***Port Phillip and Westernport Native Vegetation Plan*** was published in draft form in 1997. The final version has been recently adopted by the Port Phillip and Westernport Catchment Management Authority and forwarded to the Minister for Environment for approval. The plan identifies the most important areas of native vegetation in the region and sets priorities for protection, management and restoration of these areas. The plan also outlines priority areas for revegetation activities, and offset requirements where vegetation is removed. Once the plan is approved, Cl. 52.17 of planning schemes requires responsible authorities to consider the offset requirements before deciding on an application to remove native vegetation.

⁷ Note that Councils were told by the Minister in November 2005 that the draft Operational Guidelines for implementing the Framework, previously issued by the Department, are not to be used in assessing applications relating to native vegetation.

6.2 Native vegetation protection in the Frankston Planning Scheme

Native vegetation protection can be furthered in various ways through the local section of the planning scheme:

- the *Municipal Strategic Statement*, which needs to justify why vegetation is being protected in the scheme
- local policy, to explain and inform planning decisions
- overlay provisions, e.g. the Significant Landscape Overlay or the Environmental Significance Overlay.

The Statewide provisions establish minimum requirements for native vegetation, but local councils can go further in the local content of their planning schemes. The Local Planning Policy Framework and some planning scheme overlays may also express local objectives and requirements for the protection, retention or management of native vegetation in specific areas. It is possible, for example to boost the protection of vegetation types that are rated of 'least concern' at a State level, if they are valued more highly within the municipality.

The current provisions for the protection of native vegetation in the Frankston Planning Scheme are outlined and discussed below, and some recommendations for updating and improvement are made in the following chapter.

6.2.1 Municipal Strategic Statement

The municipal profile (Cl.21.01) makes only a brief reference to natural bushland reserves in open spaces.

In Cl. 21.02, key influences on land use planning and the future form of the City include flora and fauna: a number of areas of remnant vegetation of significance for flora and fauna conservation. Arresting vegetation loss and the consequent decline in biodiversity is noted as a significant challenge to the City.

The Strategic Land Use Framework Plan (Cl.21.03) states that "the City's significant indigenous vegetation remnants are identified and will be protected."

The section dealing with natural environment and cultural heritage (Cl.21.11) provides detailed treatment of native vegetation. It notes the relatively large area and variety of remnant indigenous vegetation in comparison with other municipalities to the southeast of Melbourne. Additional information about the values of indigenous vegetation in the local and regional context could be provided to further justify why it is being protected in the scheme. It refers to a 'recent study' [i.e. Muir et al. (1997)] that identified 130 sites of botanical and zoological significance. Strictly, the study was of botanical significance only; no detailed study of sites of zoological significance has been completed for the municipality although it is likely that virtually all sites of zoological significance are also of botanical significance. This reference should be updated to the current study. Threats are identified as clearing, grazing, pest plants and animals. Objectives include: "To maintain the current level of biological diversity in the City." Implementation measures include:

- using local policy to provide guidance in dealing with proposals that would affect sites of significance for indigenous flora and fauna
- requiring the revegetation of specific land to re-create faunal habitat corridors
- applying the Public Conservation and Resource Zone to identify and protect publicly-owned land that has high nature conservation values
- applying the Environmental Significance Overlay to identify and protect sites of flora and fauna significance
- applying the Significant Landscape Overlay in areas at Carrum Downs, Langwarrin and Baxter to protect remnant vegetation that makes a substantial contribution to landscape character and quality.

6.2.2 Local Planning Policy Framework

As foreshadowed in the Municipal Strategic Statement, there is an Indigenous Flora and Fauna Policy at Cl.22.06 of the Local Planning Policy Framework. This applies to areas of indigenous vegetation and in particular to sites of botanical significance identified on Map 1 to Schedule 1 of the Environmental Significance Overlay. The policy provides a strong basis for protection and enhancement of sites of botanical or zoological significance, for example: “Indigenous vegetation not be cleared from sites of botanical or zoological significance unless it can be clearly demonstrated that no alternatives are available.” However, there is some potential confusion as to whether protection is focussed on the sites on the map of ‘Sites of botanical and zoological significance’ at Cl.21.11 of the MSS, or the greater number of sites on Map 1 to Schedule 1 of the ESO.

The local policy for the South East Non-Urban Area (Cl. 22.15) has an objective “to protect and enhance environmental values, including wetlands, flora and fauna habitats and hydraulic functions”. It is policy to prepare a framework plan and detailed local structure plan for the area. This detailed planning process could now include a native vegetation precinct plan/s, using the mechanism introduced into planning schemes in March 2006.

6.2.3 Overlays

The Environmental Significance Overlay (ESO) is preferred by the Department of Sustainability and Environment for the protection of significant native vegetation and other environmental values such as threatened fauna habitats. The Frankston Planning Scheme applies the ESO to areas of botanical or zoological significance as specified in Table 1 and Map 1 to Schedule 1. These areas correspond to the sites identified in the 1997 study by Muir *et al.* Protection of these areas with the ESO is a major step towards their protection.

The Significant Landscape Overlay (SLO) has been applied in the Frankston Planning Scheme in several areas where native vegetation is identified as being important to landscape significance. SLO Schedule 1 covers the Langwarrin hinterland and Baxter-Mt Eliza escarpment. It is noted that remnant vegetation makes a significant contribution to the landscape character of the area and is of botanical and habitat significance. Objectives under Schedule 1 include “to conserve and enhance the area’s native vegetation for its intrinsic, habitat and landscape values”.

SLO Schedule 2 applies to a stand of Red Gums in the Carrum Downs area. The landscape character objective is “to conserve and enhance the remnant stands of River Red Gum (*E. camaldulensis*) and associated indigenous vegetation for their intrinsic, habitat and landscape values”. This Overlay provides protection to some of the municipality’s native vegetation that is not within identified sites of botanical significance.

6.2.4 Conclusions

The protection of native vegetation is mandated in legislation, policies and strategies at national, State and regional levels. The City of Frankston already has a relatively comprehensive set of provisions for the protection of native vegetation in the local section of its Planning Scheme, but some revisions are needed to ensure consistency with current State policies and incorporate more recent information about significant vegetation.

Many of the current provisions were introduced as a result of the 1997 study by Muir et al. The current vegetation study has updated the 1997 study and its findings should be reflected in the Planning Scheme. The major policy development since the current provisions were introduced is the State Government’s adoption of the Native Vegetation Management Framework to establish the strategic direction for the protection, enhancement and revegetation of native vegetation across Victoria. The Framework’s policy provisions have been incorporated into all Victorian planning schemes, and a number of statewide amendments have been made in 2006 to facilitate and support its implementation. It is timely to review the local provisions of the Frankston Planning Scheme to ensure that it is consistent with the statewide Framework, and provides appropriate protection for significant native vegetation.

The Municipal Strategic Statement includes a good coverage of native vegetation issues and protection measures, which requires only minor amendment.

The Indigenous Flora and Fauna Policy requires only minor amendment.

The Environmental Significance Overlay Schedule 1 is the key local planning control in the Frankston Planning Scheme for the protection of significant native vegetation. These provisions should be updated with the results of the current study.

In addition, the decision guidelines in Schedule 1 should be revised to reflect the principles of the Native Vegetation Management Framework.

In parts of the municipality undergoing land use change and intensification of development, Council can encourage or initiate the preparation of vegetation precinct plans, as a means of strategically managing native vegetation across the area.

There is an opportunity for Council to be proactive in protecting and enhancing significant native vegetation by identifying secure and appropriate sites within the municipality where offsets could be achieved to make reparation for unavoidable vegetation removal. Council’s policy to achieve offsets within the municipality if possible, could be written in to the Planning Scheme.

Once the Port Phillip and Westernport Native Vegetation Plan has been approved, the offset requirements specified in the Plan should be applied by Council when deciding on planning applications involving removal of native vegetation.

7 Recommendations

Update Cl.21.11 *Natural environment and cultural heritage* in the Municipal Strategic Statement to refer to this study and its findings.

Revise the local policy 22.06 *Indigenous flora and fauna*:

- add Victoria's Biodiversity Strategy to 22.06-1
- replace the Commonwealth Endangered Species Act 1992 with the Environment Protection and Biodiversity Conservation Act 1999 in 22.06-3
- establish the principle of locating offsets within the municipality if possible, in order to achieve the objective (MSS Clause 21.11) of maintaining the current level of biological diversity in the City
- list the current study as a reference.

Take steps to overcome potential confusion between differing maps of sites of botanical and zoological significance in the MSS (Cl. 21.11) and Schedule 1 to the Environmental Significance Overlay. The map at Cl.21.11 is only a generalised representation of larger sites (the title and/or legend should indicate this), while the map in the ESO schedule is detailed and shows more sites.

In Schedule 1 to the ESO, review the decision guidelines and where appropriate, align with the decision guidelines under Cl.52.17 of the Planning Scheme so as to reflect the principles of the Native Vegetation Management Framework.

Replace Table 1 and Map 1 in Schedule 1 to the ESO with information in this report.

[Note that annotations have been provided separately on relevant sections of the current Planning Scheme text regarding specific alterations to implement the recommendations above.]

Revise the ESO1 boundaries if necessary, to accord with information from the current study.

Review the zoning of publicly-owned land to ensure that the Public Conservation and Resource Zone applies to sites identified in the current study as of High or Very High significance (refer Appendix 4, Table 1). (Note that this is an implementation measure in the MSS Cl. 21.11.)

Identify opportunities and suitable precincts in which to initiate and/or sponsor the preparation of native vegetation precinct plans. Areas with native vegetation and undergoing land use change and development, such as around Langwarrin, may be appropriate. Such plans would be incorporated in the planning scheme and listed in the schedule to Cl.52.17. They could be prepared in conjunction with detailed structure planning for a local area about to undergo development.

Identify suitable locations in the municipality for secure vegetation offsets, for use when offsets required under a planning permit cannot be undertaken on the applicant's property. Locations could be Crown land or other public land, Council bushland reserves, and private land, including land proposed to be revegetated as faunal habitat corridors (MSS Cl. 21.11).

Prepare and publish a brochure outlining planning scheme controls over native vegetation removal, and assistance available for native vegetation management. Disseminate to all landholders in parts of the municipality with native vegetation.

Investigate the feasibility of providing financial and other assistance to encourage landholders to prepare property vegetation plans, and to actively protect and manage the native vegetation on their properties.

Review planning enforcement activities and resources with a focus on native vegetation. If necessary, increase monitoring and patrols, and publicise a 'no tolerance' approach to illegal clearing.

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Jenny Symons	Environmental Planner, Frankston City Council
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Jeff Yugovic	Biosis Research Pty Ltd
Ann Scholes	Baden Powell Park Project Coordinator
Coralie Kennedy	Friends of Studio Park

Local residents who gave us permission to survey their properties and submitted information about particular sites (e.g. Debbie Williams).

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Appendix 1. Example of EVC Benchmark; used to assess Valley Heathy Forest in the Gippsland Plain bioregion.



Description:

A low, open forest to 15 m tall with a sedgy/grassy understorey with a component of small ericoid shrubs and grass-trees. Soil and moisture factors are critical in delimiting the vegetation.

Large trees:

Species	DBH(cm)	#/ha
<i>Eucalyptus</i> spp.	70 cm	20 / ha

Tree Canopy Cover:

%cover	Character Species	Common Name
30%	<i>Eucalyptus melliodora</i>	Yellow Box
	<i>Eucalyptus goniacalyx</i> s.l.	Bundy
	<i>Eucalyptus cephalocarpa</i> s.l.	Silverleaf Stringybark
	<i>Eucalyptus obliqua</i>	Messmate Stringybark

Understorey:

Life form	#Spp	%Cover	LF code
Immature Canopy Tree		5%	IT
Understorey Tree or Large Shrub	2	10%	T
Medium Shrub	7	15%	M5
Small Shrub	5	5%	S5
Prostrate Shrub	2	1%	PS
Medium Herb	6	10%	MH
Small or Prostrate Herb	3	5%	SH
Large Tufted Graminoid	2	5%	LTG
Large Non-tufted Graminoid	2	20%	LNG
Medium to Small Tufted Graminoid	7	15%	MTG
Medium to Tiny Non-tufted Graminoid	1	1%	MNG
Ground Fern	1	1%	GF
Scrambler or Climber	3	5%	SC
Bryophytes/Lichens	na	10%	BL

Ecological Vegetation Class bioregion benchmark



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www.dse.vic.gov.au

Rapid assessment proforma for Frankston Veg Study 2005

Adapted from DSE Veg Quality Field Assessment Sheet

Appendix 2. Pro-forma used to score vegetation quality (adapted from DSE Vegetation Quality Assessment Sheet).

EVC

Site No. Location Tenure Date

Assessor(s)AMG E:.....N:.....Waypoints:.....

% native veg in 100m radius:.....

Other landscape context features to be scored from aerials.

Approx. portion of site belonging to this EVC:.....

Portion of site of this quality:.....

Approx scores for low quality areas of site (where differ from those below): Large Trees:.....

Canopy:.....

Understorey:.....

Lack of Weeds:.....

Recruitment:.....

Litter:.....

Logs:.....

Notes:.....

Scores for highest quality patch of reasonable size

Large Trees Score

Category & Description	Value		
	% Canopy Health *		
	> 70%	30-70%	< 30%
None present	0	0	0
> 0 to <20% of the benchmark	3	2	1
≥ 20% to <40% of the benchmark	4	3	2
≥ 40% to <70% of the benchmark	6	5	4
≥ 70% to <100% of the benchmark	8	7	6
≥100% of the benchmark number of large trees/ha	10	9	8

Lack of Weeds Score

Category & Description	Value		
	'high threat' weeds*		
	None	≤ 50%	> 50%
> 50% cover of weeds	4	2	0
25 - 50% cover of weeds	7	6	4
5 - 25% cover of weeds	11	9	7
< 5% cover of weeds**	15	13	11

Weeds recorded (underline high threat weeds)

Tree Canopy Cover Score

Category & Description	Value		
	% Canopy Health *		
	> 70%	30-70%	< 30%
> 90% change from benchmark cover	0	0	0
50% - 90% change - benchmark cover	3	2	1
< 50% change in the benchmark cover	5	4	3

Organic Litter Score

Category Description	Value	
	≥ 50%*	< 50%*
< 10% of benchmark cover	0	0
10 - 50% or > 150% of expected cover	3	2
≥ 50% or ≤ 150% of expected cover	5	4

* % of litter cover due to native species

Logs Score

Category Description	Value*
< 10% of benchmark length	0
< 50% of expected length	3*
≥ 50% of expected length	5*

* subtract 1 if total length of large logs (≥ 0.5 of benchmark large tree dbh) < 25% EVC benchmark log length

Appendix 3. Vascular plant species recorded from a search area based on the Frankston City Council municipality.

Data from Victorian Flora Database - FIS, Biodiversity and Natural Resources, DSE - May 2005 © Viridans Biological Databases

Letters preceding the scientific name indicate the conservation status of the species: National Significance:

E = Endangered; R = Rare; Vul = Vulnerable; State significance: r = rare; v = vulnerable; k = insufficient data (DSE 2005).

An asterisk (*) denotes exotic species. A hash (#) denotes native species occurring outside their natural range.

FERNS AND ALLIES

Adiantaceae

<i>Adiantum aethiopicum</i>	Common Maidenhair
<i>Cheilanthes austrotenuifolia</i>	Green Rock-fern

Azollaceae

<i>Azolla filiculoides</i>	Pacific Azolla
----------------------------	----------------

Blechnaceae

<i>Blechnum fluviatile</i>	Ray Water-fern
<i>Blechnum minus</i>	Soft Water-fern
<i>Blechnum nudum</i>	Fishbone Water-fern
<i>Blechnum wattsii</i>	Hard Water-fern
<i>Doodia australis</i>	Common Rasp-fern

Culcitaceae

<i>Calochlaena dubia</i>	Common Ground-fern
--------------------------	--------------------

Cyatheaceae

<i>Cyathea australis</i>	Rough Tree-fern
--------------------------	-----------------

Dennstaedtiaceae

<i>Hypolepis rugosula</i>	Ruddy Ground-fern
<i>Hypolepis</i> spp.	Ground Fern
<i>Pteridium esculentum</i>	Austral Bracken

Dicksoniaceae

<i>Dicksonia antarctica</i>	Soft Tree-fern
-----------------------------	----------------

Dryopteridaceae

<i>Polystichum proliferum</i>	Mother Shield-fern
-------------------------------	--------------------

Gleicheniaceae

<i>Gleichenia dicarpa</i>	Pouched Coral-fern
<i>Gleichenia microphylla</i>	Scrambling Coral-fern
<i>Gleichenia</i> spp.	Coral Fern

Isoetaceae

<i>Isoetes drummondii</i>	Plain Quillwort
<i>Isoetes drummondii</i> subsp. <i>drummondii</i>	Plain Quillwort

Lindsaeaceae

<i>Lindsaea linearis</i>	Screw Fern
--------------------------	------------

Lycopodiaceae

<i>Lycopodiella lateralis</i>	Slender Clubmoss
<i>Phylloglossum drummondii</i>	Pygmy Clubmoss

Marsileaceae

- # *Marsilea mutica* Smooth Nardoo
Pilularia novae-hollandiae Austral Pillwort

Pteridaceae

- Pteris tremula* Tender Brake

Schizaeaceae

- Schizaea asperula* Rough Comb-fern
Schizaea bifida s.s. Forked Comb-fern
Schizaea fistulosa Narrow Comb-fern

Selaginellaceae

- Selaginella gracillima* Tiny Selaginella
Selaginella uliginosa Swamp Selaginella

CONIFERS**Pinaceae**

- * *Pinus nigra* var. *corsicana* Corsican Pine
 * *Pinus pinaster* Cluster Pine
 * *Pinus radiata* Radiata Pine

MONOCOTYLEDONS**Agavaceae**

- * *Agave americana* Century Plant
 * *Cordyline australis* New Zealand Cabbage-tree
Yucca gloriosa Palm Lily

Alismataceae

- * *Alisma lanceolata* Water Plantain
Alisma plantago-aquatica Water Plantain

Alliaceae

- * *Agapanthus praecox* subsp. *orientalis* Agapanthus
 * *Allium* spp. Garlic
 * *Allium triquetrum* Three-corner Garlic

Aloeaceae

- * *Aloe* spp. Aloe
 * *Kniphofia* spp. Kniphofia

Anthericaceae

- Arthropodium* spp. (s.s.) Vanilla Lily
Arthropodium strictum s.l. Chocolate Lily
Chamaescilla corymbosa var. *corymbosa* Blue Stars
Laxmannia orientalis Dwarf Wire-lily
Thysanotus patersonii Twining Fringe-lily
Thysanotus tuberosus Common Fringe-lily

Araceae

- * *Zantedeschia aethiopica* White Arum-lily

Asparagaceae

- | | |
|---------------------------------|----------------|
| * <i>Asparagus aethiopicus</i> | Sprengeri Fern |
| * <i>Asparagus asparagoides</i> | Bridal Creeper |
| * <i>Asparagus officinalis</i> | Asparagus |
| * <i>Asparagus scandens</i> | Asparagus Fern |

Asphodelaceae

- | | |
|------------------------|--------------|
| <i>Bulbine bulbosa</i> | Bulbine Lily |
|------------------------|--------------|

Centrolepidaceae

- | | |
|--|---------------------|
| <i>Aphelia gracilis</i> | Slender Aphelia |
| <i>Aphelia pumilio</i> | Dwarf Aphelia |
| <i>Centrolepis aristata</i> | Pointed Centrolepis |
| <i>Centrolepis fascicularis</i> | Tufted Centrolepis |
| <i>Centrolepis strigosa</i> subsp. <i>strigosa</i> | Hairy Centrolepis |

Colchicaceae

- | | |
|-----------------------------|--------------------|
| <i>Burchardia umbellata</i> | Milkmaids |
| <i>Wurmbea dioica</i> | Common Early Nancy |

Commelinaceae

- | | |
|-----------------------------------|---------------|
| * <i>Tradescantia fluminensis</i> | Wandering Jew |
|-----------------------------------|---------------|

Cyperaceae

- | | |
|----------------------------------|------------------------|
| <i>Baumea acuta</i> | Pale Twig-sedge |
| <i>Baumea arthrophylla</i> | Fine Twig-sedge |
| <i>Baumea articulata</i> | Jointed Twig-sedge |
| <i>Baumea gunnii</i> | Slender Twig-sedge |
| <i>Baumea juncea</i> | Bare Twig-sedge |
| <i>Baumea rubiginosa</i> s.l. | Soft Twig-rush |
| <i>Baumea rubiginosa</i> s.s. | Soft Twig-sedge |
| <i>Baumea</i> spp. | Twig Sedge |
| <i>Baumea tetragona</i> | Square Twig-sedge |
| <i>Bolboschoenus medianus</i> | Marsh Club-sedge |
| <i>Carex appressa</i> | Tall Sedge |
| <i>Carex breviculmis</i> | Common Grass-sedge |
| <i>Carex fascicularis</i> | Tassel Sedge |
| <i>Carex gaudichaudiana</i> | Fen Sedge |
| <i>Carex inversa</i> | Knob Sedge |
| <i>Carex tereticaulis</i> | Poong'ort |
| k <i>Chorizandra australis</i> | Southern Bristle-sedge |
| <i>Chorizandra cymbaria</i> s.l. | Heron Bristle-sedge |
| <i>Chorizandra cymbaria</i> s.s. | Heron Bristle-sedge |
| <i>Chorizandra</i> spp. | Bristle Sedge |
| * <i>Cyperus congestus</i> | Dense Flat-sedge |
| * <i>Cyperus eragrostis</i> | Drain Flat-sedge |
| <i>Cyperus</i> spp. | Flat Sedge |
| * <i>Cyperus tenellus</i> | Tiny Flat-sedge |
| <i>Eleocharis acuta</i> | Common Spike-sedge |
| k <i>Eleocharis macbarronii</i> | Grey Spike-sedge |
| <i>Eleocharis sphacelata</i> | Tall Spike-sedge |
| <i>Ficinia nodosa</i> | Knobby Club-sedge |
| <i>Gahnia radula</i> | Thatch Saw-sedge |

<i>Gahnia sieberiana</i>	Red-fruit Saw-sedge
<i>Gahnia trifida</i>	Coast Saw-sedge
<i>Isolepis cernua</i> var. <i>cernua</i>	Nodding Club-sedge
<i>Isolepis cernua</i> var. <i>platycarpa</i>	Broad-fruit Club-sedge
<i>Isolepis fluitans</i>	Floating Club-sedge
<i>Isolepis fluitans</i> var. <i>fluitans</i>	Floating Club-sedge
<i>Isolepis fluitans</i> var. <i>lenticularis</i>	Floating Club-sedge
<i>Isolepis hookeriana</i>	Grassy Club-sedge
* <i>Isolepis hystrix</i>	Awned Club-sedge
<i>Isolepis inundata</i>	Swamp Club-sedge
<i>Isolepis marginata</i>	Little Club-sedge
<i>Isolepis</i> spp.	Club Sedge
<i>Isolepis stellata</i>	Star Club-sedge
<i>Lepidosperma concavum</i>	Sandhill Sword-sedge
<i>Lepidosperma congestum</i>	Clustered Sword-sedge
<i>Lepidosperma curtisiae</i>	Little Sword-sedge
<i>Lepidosperma elatius</i>	Tall Sword-sedge
<i>Lepidosperma filiforme</i>	Common Rapier-sedge
<i>Lepidosperma forsythii</i>	Large-flower Rapier-sedge
<i>Lepidosperma gladiatum</i>	Coast Sword-sedge
<i>Lepidosperma gunnii</i>	Slender Sword-sedge
<i>Lepidosperma laterale</i>	Variable Sword-sedge
<i>Lepidosperma laterale</i> var. <i>laterale</i>	Variable Sword-sedge
<i>Lepidosperma laterale</i> var. <i>majus</i>	Variable Sword-sedge
<i>Lepidosperma longitudinale</i>	Pithy Sword-sedge
<i>Lepidosperma neesii</i>	Stiff Rapier-sedge
<i>Lepidosperma semiteres</i>	Wire Rapier-sedge
<i>Lepidosperma</i> spp.	Sword Sedge
<i>Schoenus apogon</i>	Common Bog-sedge
<i>Schoenus brevifolius</i>	Zig-zag Bog-sedge
<i>Schoenus lepidosperma</i>	Slender Bog-sedge
<i>Schoenus maschalinus</i>	Leafy Bog-sedge
<i>Schoenus nitens</i>	Shiny Bog-sedge
<i>Schoenus tesquorum</i>	Soft Bog-sedge
<i>Tetraria capillaris</i>	Hair Sedge
Hyacinthaceae	
* <i>Hyacinthoides non-scripta</i>	English Bluebell
* <i>Lachenalia</i> spp.	Lachenalia
Hydrocharitaceae	
* <i>Egeria densa</i>	Dense Waterweed
<i>Vallisneria americana</i> var. <i>americana</i>	Eel Grass
<i>Vallisneria</i> spp.	Eel Grass
Hypoxidaceae	
<i>Hypoxis glabella</i> s.l.	Yellow star
<i>Hypoxis hygrometrica</i>	Golden Weather-glass
<i>Hypoxis vaginata</i>	Yellow Star
Iridaceae	
* <i>Chasmanthe floribunda</i>	African Cornflag
* <i>Crocasmia X crocosmiiflora</i>	Montbretia

* <i>Freesia alba</i> x <i>Freesia leichtlinii</i>	Freesia
* <i>Freesia</i> spp.	Freesia
* <i>Gladiolus</i> spp.	Gladiolus
* <i>Gladiolus tristis</i>	Evening-flower Gladiolus
* <i>Gladiolus undulatus</i>	Wild Gladiolus
<i>Iridaceae</i> spp.	Irid
* <i>Ixia polystachya</i>	Variable Ixia
* <i>Ixia</i> spp.	Ixia
* <i>Moraea flaccida</i>	One-leaf Cape-tulip
* <i>Moraea</i> spp.	Moraea
<i>Patersonia fragilis</i>	Short Purple-flag
<i>Patersonia occidentalis</i>	Long Purple-flag
<i>Patersonia</i> spp.	Purple Flag
* <i>Romulea rosea</i>	Onion Grass
* <i>Romulea rosea</i> var. <i>australis</i> s.s.	Common Onion-grass
* <i>Sisyrinchium iridifolium</i>	Blue Pigroot
* <i>Watsonia meriana</i> var. <i>bulbillifera</i>	Bulbil Watsonia
* <i>Watsonia</i> spp.	Watsonia
* <i>Watsonia versfeldii</i>	Watsonia
Juncaceae	
* <i>Juncus acutus</i> subsp. <i>acutus</i>	Sharp Rush
<i>Juncus amabilis</i>	Hollow Rush
* <i>Juncus articulatus</i>	Jointed Rush
<i>Juncus australis</i>	Austral Rush
<i>Juncus bufonius</i>	Toad Rush
* <i>Juncus bulbosus</i>	Bulbous Rush
<i>Juncus caespiticius</i>	Grassy Rush
* <i>Juncus capitatus</i>	Capitate Rush
<i>Juncus flavidus</i>	Gold Rush
<i>Juncus gregiflorus</i>	Green Rush
<i>Juncus holoschoenus</i>	Joint-leaf Rush
<i>Juncus homalocaulis</i>	Wiry Rush
<i>Juncus kraussii</i> subsp. <i>australiensis</i>	Sea Rush
* <i>Juncus microcephalus</i>	Tiny-headed Rush
<i>Juncus pallidus</i>	Pale Rush
<i>Juncus pauciflorus</i>	Loose-flower Rush
<i>Juncus planifolius</i>	Broad-leaf Rush
<i>Juncus procerus</i>	Tall Rush
<i>Juncus sarophorus</i>	Broom Rush
<i>Juncus</i> spp.	Rush
<i>Juncus subsecundus</i>	Finger Rush
<i>Luzula campestris</i> spp. agg.	Field Woodrush
<i>Luzula meridionalis</i>	Common Woodrush
<i>Luzula meridionalis</i> var. <i>densiflora</i>	Common Woodrush
<i>Luzula meridionalis</i> var. <i>flaccida</i>	Common Woodrush
<i>Luzula meridionalis</i> var. <i>meridionalis</i>	Common Woodrush
Juncaginaceae	
<i>Triglochin alcockiae</i>	Southern Water-ribbons
<i>Triglochin procera</i> s.l.	Water Ribbons
<i>Triglochin striata</i>	Streaked Arrowgrass

Lemnaceae*Landoltia punctata*

Thin Duckweed

Lemna disperma

Common Duckweed

Liliaceae* *Spiloxene capensis*

Spiloxene

Orchidaceae*Acianthus caudatus*

Mayfly Orchid

Acianthus exsertus s.l.

Gnat Orchid

Acianthus pusillus

Small Mosquito-orchid

Acianthus spp.

Mosquito Orchid

r *Burnettia cuneata*

Lizard Orchid

Caladenia carnea s.s.

Pink Fingers

Caladenia carnea

Pink Fingers

Caladenia clavigera

Plain-lip Spider-orchid

Caladenia dilatata s.l.

Green-comb Spider-orchid

k *Caladenia dilatata s.s.*

Green-comb Spider-orchid

Caladenia gracilis

Musk Hood

Caladenia latifolia

Pink Fairies

Caladenia patersonii s.l.

Common Spider-orchid

Caladenia phaeoclavia

Brown-clubbed Spider-orchid

Caladenia pusilla

Tiny Pink-fingers

Ee *Caladenia robinsonii*

Frankston Spider-orchid

Caladenia spp.

Caladenia

Caladenia tentaculata

Mantis Orchid

Caladenia transitoria

Eastern Bronzewood

Caleana major

Large Duck-orchid

Calochilus robertsonii

Purple Beard-orchid

Chiloglottis gunnii s.l.

Common Bird-orchid

Chiloglottis reflexa

Autumn Wasp-orchid

Chiloglottis trapeziformis

Dainty Wasp-orchid

Chiloglottis valida

Common Bird-orchid

r *Chiloglottis X pescottiana*

Bronze Bird-orchid

Corunastylis morrisii

Bearded Midge-orchid

Corybas diemenicus

Veined Helmet-orchid

r *Corybas fimbriatus*

Fringed Helmet-orchid

Corybas incurvus

Slaty Helmet-orchid

Corybas spp.

Helmet Orchid

Cryptostylis leptochila

Small Tongue-orchid

Cryptostylis subulata

Large Tongue-orchid

Cyrtostylis reniformis

Small Gnat-orchid

Cyrtostylis robusta

Large Gnat-orchid

Dipodium punctatum s.l.

Hyacinth Orchid

Dipodium roseum s.l.

Rosy Hyacinth-orchid

Dipodium roseum s.s.

Rosy Hyacinth-orchid

Diuris lanceolata s.l.

Golden Moths

Diuris orientis

Wallflower Orchid

Diuris pardina

Leopard Orchid

v *Diuris punctata var. punctata*

Purple Diuris

Diuris sulphurea

Tiger Orchid

Eriochilus cucullatus

Parson's Bands

<i>Gastrodia sesamoides s.l.</i>	Cinnamon Bells
<i>Glossodia major</i>	Wax-lip Orchid
<i>Leporella fimbriata</i>	Fringed Hare-orchid
<i>Leptoceras menziesii</i>	Hare Orchid
<i>Lyperanthus suaveolens</i>	Brown-beaks
<i>Microtidium atratum</i>	Yellow Onion-orchid
<i>Microtis arenaria</i>	Notched Onion-orchid
<i>Microtis parviflora</i>	Slender Onion-orchid
<i>Microtis rara</i>	Sweet Onion-orchid
<i>Microtis spp.</i>	Onion Orchid
<i>Microtis unifolia</i>	Common Onion-orchid
<i>Orthoceras strictum</i>	Horned Orchid
<i>Pheladenia deformis</i>	Bluebeard Orchid
<i>Prasophyllum elatum</i>	Tall Leek-orchid
v <i>Prasophyllum lindleyanum</i>	Green Leek-orchid
<i>Prasophyllum spp.</i>	Leek Orchid
<i>Pterostylis concinna</i>	Trim Greenhood
<i>Pterostylis curta</i>	Blunt Greenhood
<i>Pterostylis longifolia s.l.</i>	Tall Greenhood
<i>Pterostylis melagramma</i>	Tall Greenhood
<i>Pterostylis nana</i>	Dwarf Greenhood
<i>Pterostylis nutans</i>	Nodding Greenhood
<i>Pterostylis parviflora s.l.</i>	Tiny Greenhood
v <i>Pterostylis pedoglossa</i>	Prawn Greenhood
<i>Pterostylis pedunculata</i>	Maroonhood
<i>Pterostylis sanguinea</i>	Banded Greenhood
<i>Pterostylis spp.</i>	Greenhood
v <i>Pterostylis X toveyana</i>	Mentone Greenhood
<i>Pyrorchis nigricans</i>	Red-beaks
<i>Spiranthes australis</i>	Austral Ladies' Tresses
<i>Thelymitra antennifera</i>	Rabbit Ears
<i>Thelymitra aristata</i>	Great Sun-orchid
<i>Thelymitra carnea</i>	Pink Sun-orchid
<i>Thelymitra flexuosa</i>	Twisted Sun-orchid
<i>Thelymitra ixioides s.l.</i>	Spotted Sun-orchid
<i>Thelymitra nuda</i>	Plain Sun-orchid
<i>Thelymitra pauciflora s.l.</i>	Slender Sun-orchid
<i>Thelymitra rubra</i>	Salmon Sun-orchid
<i>Thelymitra sp. aff. holmesii (Terminal hair tufts)</i>	Trim Sun-orchid
<i>Thelymitra spp.</i>	Sun Orchid
<i>Thynniorchis huntianus</i>	Elbow Orchid
Phormiaceae	
<i>Caesia calliantha</i>	Blue Grass-lily
<i>Caesia parviflora</i>	Pale Grass-lily
<i>Dianella brevicaulis</i>	Small-flower Flax-lily
<i>Dianella caerulea s.l.</i>	Paroo Lily
<i>Dianella longifolia s.l.</i>	Pale Flax-lily
<i>Dianella longifolia var. longifolia s.l.</i>	Pale Flax-lily
<i>Dianella revoluta s.l.</i>	Black-anther Flax-lily
<i>Dianella revoluta var. revoluta s.l.</i>	Black-anther Flax-lily
<i>Dianella tasmanica</i>	Tasman Flax-lily

Thelionema caespitosum
Tricoryne elatior

Tufted Lily
 Yellow Rush-lily

Poaceae

* <i>Agrostis capillaris</i> s.l.	Brown-top Bent
* <i>Agrostis capillaris</i> s.s.	Brown-top Bent
* <i>Agrostis castellana</i>	Dryland Brown-top
* <i>Agrostis gigantea</i>	Red-top Bent
<i>Agrostis</i> s.l. spp.	Bent/Blown Grass
* <i>Aira caryophyllea</i>	Silvery Hair-grass
* <i>Aira cupaniana</i>	Quicksilver Grass
* <i>Aira elegantissima</i>	Delicate Hair-grass
* <i>Aira praecox</i>	Early Hair-grass
* <i>Aira</i> spp.	Hair Grass
* <i>Ammophila arenaria</i>	Marram Grass
<i>Amphibromus archeri</i>	Pointed Swamp Wallaby-grass
<i>Amphibromus macrorhinus</i>	Long-nosed Swamp Wallaby-grass
<i>Amphibromus neesii</i>	Southern Swamp Wallaby-grass
<i>Amphibromus nervosus</i>	Common Swamp Wallaby-grass
<i>Amphibromus</i> spp.	Swamp Wallaby-grass
* <i>Anthoxanthum odoratum</i>	Sweet Vernal-grass
<i>Austrodanthonia caespitosa</i>	Common Wallaby-grass
<i>Austrodanthonia duttoniana</i>	Brown-back Wallaby-grass
<i>Austrodanthonia eriantha</i>	Hill Wallaby-grass
<i>Austrodanthonia fulva</i>	Copper-awned Wallaby-grass
<i>Austrodanthonia geniculata</i>	Kneed Wallaby-grass
<i>Austrodanthonia induta</i>	Shiny Wallaby-grass
<i>Austrodanthonia laevis</i>	Smooth Wallaby-grass
<i>Austrodanthonia penicillata</i>	Slender Wallaby-grass
<i>Austrodanthonia pilosa</i>	Velvet Wallaby-grass
<i>Austrodanthonia racemosa</i> var. <i>racemosa</i>	Striped Wallaby-grass
<i>Austrodanthonia setacea</i>	Bristly Wallaby-grass
<i>Austrodanthonia setacea</i> var. <i>setacea</i>	Bristly Wallaby-grass
<i>Austrodanthonia</i> spp.	Wallaby Grass
<i>Austrodanthonia tenuior</i>	Purplish Wallaby-grass
<i>Austrofestuca hookeriana</i>	Hooker Fescue
r <i>Austrofestuca littoralis</i>	Coast Fescue
<i>Austrostipa elegantissima</i>	Feather Spear-grass
<i>Austrostipa flavescens</i>	Coast Spear-grass
<i>Austrostipa mollis</i>	Supple Spear-grass
<i>Austrostipa pubinodis</i>	Tall Spear-grass
<i>Austrostipa rudis</i>	Veined Spear-grass
<i>Austrostipa rudis</i> subsp. <i>rudis</i>	Veined Spear-grass
<i>Austrostipa scabra</i> subsp. <i>falcata</i>	Rough Spear-grass
<i>Austrostipa semibarbata</i>	Fibrous Spear-grass
<i>Austrostipa</i> spp.	Spear Grass
<i>Austrostipa stipoides</i>	Prickly Spear-grass
<i>Austrostipa stuposa</i>	Quizzical Spear-grass
* <i>Avena barbata</i>	Bearded Oat
* <i>Avena fatua</i>	Wild Oat
* <i>Avena</i> spp.	Oat
* <i>Bambusa</i> spp.	Bamboo

* <i>Briza maxima</i>	Large Quaking-grass
* <i>Briza minor</i>	Lesser Quaking-grass
* <i>Briza</i> spp.	Quaking Grass
* <i>Bromus catharticus</i>	Prairie Grass
* <i>Bromus diandrus</i>	Great Brome
* <i>Bromus hordeaceus</i> subsp. <i>hordeaceus</i>	Soft Brome
<i>Bromus</i> spp.	Brome
* <i>Cortaderia selloana</i>	Pampas Grass
<i>Cynodon dactylon</i>	Couch
* <i>Cynodon dactylon</i> var. <i>dactylon</i>	Couch
* <i>Cynosurus echinatus</i>	Rough Dog's-tail
* <i>Dactylis glomerata</i>	Cocksfoot
* <i>Danthonia decumbens</i>	Heath Grass
<i>Danthonia s.l.</i> spp.	Wallaby Grass
<i>Deyeuxia densa</i>	Heath Bent-grass
<i>Deyeuxia quadriseta</i>	Reed Bent-grass
<i>Deyeuxia</i> spp.	Bent-grass
# <i>Dichanthium sericeum</i> subsp. <i>sericeum</i>	Silky Blue-grass
<i>Dichelachne crinita</i>	Long-hair Plume-grass
<i>Dichelachne rara</i>	Common Plume-grass
<i>Dichelachne sciurea</i> spp. agg.	Short-hair Plume-grass
<i>Dichelachne sieberiana</i>	Rough Plume-grass
* <i>Digitaria sanguinalis</i>	Summer Grass
<i>Distichlis distichophylla</i>	Australian Salt-grass
* <i>Echinochloa muricata</i> var. <i>microstachya</i>	Prickly Barnyard-grass
* <i>Ehrharta calycina</i>	Perennial Veldt-grass
* <i>Ehrharta erecta</i> var. <i>erecta</i>	Panic Veldt-grass
* <i>Ehrharta longiflora</i>	Annual Veldt-grass
* <i>Eleusine indica</i>	Goose-grass
<i>Elymus scaber</i> var. <i>scaber</i>	Common Wheat-grass
<i>Entolasia marginata</i>	Bordered Panic
k <i>Entolasia stricta</i>	Upright Panic
<i>Eragrostis brownii</i>	Common Love-grass
* <i>Eragrostis curvula</i>	African Love-grass
* <i>Eragrostis pilosa</i>	Soft Love-grass
* <i>Festuca arundinacea</i>	Tall Fescue
<i>Glyceria australis</i>	Australian Sweet-grass
<i>Glyceria</i> spp.	Sweet Grass
<i>Hemarthria uncinata</i> var. <i>uncinata</i>	Mat Grass
* <i>Holcus lanatus</i>	Yorkshire Fog
* <i>Hordeum leporinum</i>	Barley-grass
* <i>Hordeum vulgare</i> s.l.	Barley
<i>Imperata cylindrica</i>	Blady Grass
<i>Joycea lepidopoda</i>	Scaly-foot Wallaby-grass
<i>Joycea pallida</i>	Silvertop Wallaby-grass
<i>Lachnagrostis aemula</i> s.l.	Leafy Blown-grass
<i>Lachnagrostis billardieryi</i> s.l.	Coast Blown-grass
<i>Lachnagrostis filiformis</i>	Common Blown-grass
<i>Lachnagrostis filiformis</i> var. 1	Common Blown-grass
k <i>Lachnagrostis filiformis</i> var. 2	Wetland Blown-grass
r <i>Lachnagrostis punicea</i> subsp. <i>filifolia</i>	Purple Blown-grass
* <i>Lagurus ovatus</i>	Hare's-tail Grass

* <i>Lamarckia aurea</i>	Golden-top
* <i>Lolium perenne</i>	Perennial Rye-grass
* <i>Lolium rigidum</i>	Wimmera Rye-grass
* <i>Lolium</i> spp.	Rye Grass
* <i>Lolium temulentum</i>	Darnel
* <i>Lophopyrum ponticum</i>	Tall Wheat-grass
<i>Microlaena stipoides</i> var. <i>stipoides</i>	Weeping Grass
<i>Notodanthonia semiannularis</i>	Wetland Wallaby-grass
* <i>Parapholis incurva</i>	Coast Barb-grass
* <i>Parapholis strigosa</i>	Slender Barb-grass
* <i>Paspalum dilatatum</i>	Paspalum
* <i>Paspalum distichum</i>	Water Couch
* <i>Paspalum</i> spp.	Paspalum
* <i>Pennisetum clandestinum</i>	Kikuyu
* <i>Pennisetum macrourum</i>	African Feather-grass
<i>Pentapogon quadrifidus</i> var. <i>quadrifidus</i>	Five-awned Spear-grass
* <i>Phalaris aquatica</i>	Toowoomba Canary-grass
* <i>Phalaris arundinacea</i>	Reed Canary-grass
* <i>Phalaris minor</i>	Lesser Canary-grass
* <i>Phalaris</i> spp.	Canary Grass
<i>Phragmites australis</i>	Common Reed
* <i>Poa annua</i>	Annual Meadow-grass
<i>Poa australis</i> spp. agg.	Tussock Grass
<i>Poa clelandii</i>	Noah's Ark
<i>Poa ensiformis</i>	Sword Tussock-grass
<i>Poa labillardierei</i>	Common Tussock-grass
k <i>Poa labillardierei</i> var. (<i>Volcanic Plains</i>)	Basalt Tussock-grass
<i>Poa morrisii</i>	Soft Tussock-grass
<i>Poa poiformis</i>	Coast Tussock-grass
* <i>Poa pratensis</i>	Kentucky Blue-grass
<i>Poa rodwayi</i>	Velvet Tussock-grass
<i>Poa sieberiana</i>	Grey Tussock-grass
<i>Poa sieberiana</i> var. <i>sieberiana</i>	Grey Tussock-grass
<i>Poa</i> spp.	Tussock Grass
<i>Poa tenera</i>	Slender Tussock-grass
Poaceae spp.	Grass
* <i>Polypogon maritimus</i> var. <i>subspathaceus</i>	Coast Beard-grass
* <i>Polypogon monspeliensis</i>	Annual Beard-grass
* <i>Puccinellia fasciculata</i>	Borrer's Saltmarsh-grass
* <i>Secale cereale</i> subsp. <i>cereale</i>	Rye
* <i>Setaria parviflora</i>	Slender Pigeon Grass
* <i>Setaria</i> spp. (<i>naturalised</i>)	Pigeon Grass
<i>Spinifex sericeus</i>	Hairy Spinifex
* <i>Sporobolus africanus</i>	Rat-tail Grass
<i>Sporobolus virginicus</i>	Salt Couch
* <i>Stenotaphrum secundatum</i>	Buffalo Grass
<i>Tetrarrhena acuminata</i>	Pointed Rice-grass
<i>Tetrarrhena distichophylla</i>	Hairy Rice-grass
<i>Tetrarrhena juncea</i>	Forest Wire-grass
<i>Themeda triandra</i>	Kangaroo Grass
* <i>Thinopyrum junceiforme</i>	Sea Wheat-grass
* <i>Vulpia bromoides</i>	Squirrel-tail Fescue

* <i>Vulpia fasciculata</i>	Dune Fescue
* <i>Vulpia myuros</i>	Rat's-tail Fescue
* <i>Vulpia myuros f. myuros</i>	Rat's-tail Fescue
* <i>Vulpia</i> spp.	Fescue
Pontederiaceae	
* <i>Eichhornia crassipes</i>	Water Hyacinth
Potamogetonaceae	
<i>Potamogeton cheesemanii</i>	Red Pondweed
<i>Potamogeton tricarinatus s.l.</i>	Floating Pondweed
Restionaceae	
<i>Apodasmia brownii</i>	Coarse Twine-rush
<i>Baloskion tetraphyllum</i> subsp. <i>tetraphyllum</i>	Tassel Cord-rush
<i>Empodisma minus</i>	Spreading Rope-rush
<i>Hypolaena fastigiata</i>	Tassel Rope-rush
<i>Lepyrodia muelleri</i>	Common Scale-rush
Typhaceae	
<i>Typha domingensis</i>	Narrow-leaf Cumbungi
* <i>Typha latifolia</i>	Lesser Reed-mace
<i>Typha orientalis</i>	Broad-leaf Cumbungi
<i>Typha</i> spp.	Bulrush
Xanthorrhoeaceae	
<i>Lomandra filiformis</i>	Wattle Mat-rush
<i>Lomandra filiformis</i> subsp. <i>coriacea</i>	Wattle Mat-rush
<i>Lomandra filiformis</i> subsp. <i>filiformis</i>	Wattle Mat-rush
<i>Lomandra longifolia</i>	Spiny-headed Mat-rush
<i>Lomandra longifolia</i> subsp. <i>exilis</i>	Cluster-headed Mat-rush
<i>Lomandra longifolia</i> subsp. <i>longifolia</i>	Spiny-headed Mat-rush
<i>Lomandra micrantha s.l.</i>	Small-flower Mat-rush
<i>Lomandra multiflora</i> subsp. <i>multiflora</i>	Many-flowered Mat-rush
<i>Lomandra</i> spp.	Mat-rush
<i>Xanthorrhoea minor</i> subsp. <i>lutea</i>	Small Grass-tree
Xyridaceae	
<i>Xyris gracilis</i>	Slender Yellow-eye
<i>Xyris operculata</i>	Tall Yellow-eye
Zosteraceae	
<i>Zostera capricorni</i>	Dwarf Grass-wrack
DICOTYLEDONS	
Aizoaceae	
* <i>Carpobrotus aequilaterus</i>	Angled Pigface
* <i>Carpobrotus edulis</i>	Hottentot Fig
<i>Carpobrotus rossii</i>	Karkalla
<i>Carpobrotus</i> spp.	Pigface
<i>Disphyma crassifolium</i> subsp. <i>clavellatum</i>	Rounded Noon-flower
* <i>Galenia pubescens</i> var. <i>pubescens</i>	Galenia
* <i>Ruschia geminiflora</i>	Loose-flower Pigface

<i>Tetragonia implexicoma</i>	Bower Spinach
Amaranthaceae	
<i>Alternanthera denticulata</i> s.l.	Lesser Joyweed
* <i>Alternanthera philoxeroides</i>	Alligator Weed
Apiaceae	
* <i>Actinotus helianthi</i>	Flannel Flower
<i>Apium annuum</i>	Annual Celery
* <i>Apium graveolens</i>	Celery
<i>Apium prostratum</i> subsp. <i>prostratum</i>	Sea Celery
<i>Centella cordifolia</i>	Centella
* <i>Daucus carota</i>	Carrot
<i>Eryngium vesiculosum</i>	Prickfoot
* <i>Foeniculum vulgare</i>	Fennel
<i>Hydrocotyle callicarpa</i>	Small Pennywort
<i>Hydrocotyle foveolata</i>	Yellow Pennywort
<i>Hydrocotyle hirta</i>	Hairy Pennywort
<i>Hydrocotyle laxiflora</i>	Stinking Pennywort
<i>Hydrocotyle medicaginoides</i>	Trefoil Pennywort
<i>Hydrocotyle pterocarpa</i>	Wing Pennywort
<i>Hydrocotyle sibthorpioides</i>	Shining Pennywort
<i>Hydrocotyle</i> spp.	Pennywort
<i>Lilaeopsis polyantha</i>	Australian Lilaeopsis
<i>Platysace heterophylla</i> var. <i>heterophylla</i>	Slender Platysace
<i>Trachymene composita</i> var. <i>composita</i>	Parsnip Trachymene
<i>Xanthosia dissecta</i> s.l.	Cut-leaf Xanthosia
<i>Xanthosia huegelii</i>	Heath Xanthosia
<i>Xanthosia pilosa</i>	Woolly Xanthosia
<i>Xanthosia pusilla</i> spp. agg.	Heath Xanthosia
<i>Xanthosia tridentata</i>	Hill Xanthosia
Apocynaceae	
<i>Alyxia buxifolia</i>	Sea Box
* <i>Vinca major</i>	Blue Periwinkle
Aquifoliaceae	
* <i>Ilex aquifolium</i>	English Holly
Araliaceae	
* <i>Hedera helix</i>	English Ivy
<i>Polyscias sambucifolia</i>	Elderberry Panax
Asteraceae	
<i>Actites megalocarpa</i>	Dune Thistle
* <i>Arctotheca calendula</i>	Cape Weed
* <i>Argyranthemum frutescens</i> subsp. <i>foeniculaceum</i>	Tenerife Daisy
* <i>Artemisia</i> spp.	Wormwood
* <i>Aster subulatus</i>	Aster-weed
<i>Brachyscome cardiocarpa</i>	Swamp Daisy
<i>Brachyscome ciliaris</i>	Variable Daisy
<i>Brachyscome parvula</i>	Coast Daisy
<i>Brachyscome parvula</i> var. <i>parvula</i>	Coast Daisy
<i>Cassinia aculeata</i>	Common Cassinia

<i>Cassinia arcuata</i>	Drooping Cassinia
<i>Cassinia longifolia</i>	Shiny Cassinia
<i>Cassinia</i> spp.	Cassinia
* <i>Centaurea melitensis</i>	Malta Thistle
<i>Centipeda minima</i> s.l.	Spreading Sneezeweed
* <i>Chrysanthemoides monilifera</i>	Boneseed
* <i>Chrysanthemoides monilifera</i> subsp. <i>monilifera</i>	African Boneseed
<i>Chrysocephalum apiculatum</i> s.l.	Common Everlasting
<i>Chrysocephalum apiculatum</i> s.s.	Common Everlasting
* <i>Cirsium vulgare</i>	Spear Thistle
* <i>Conyza bilbaoana</i>	Smooth Fleabane
* <i>Conyza bonariensis</i>	Flaxleaf Fleabane
* <i>Conyza</i> spp.	Fleabane
* <i>Conyza sumatrensis</i>	Tall Fleabane
<i>Cotula australis</i>	Common Cotula
* <i>Cotula bipinnata</i>	Ferny Cotula
* <i>Cotula coronopifolia</i>	Water Buttons
* <i>Delairea odorata</i>	Cape Ivy
* <i>Dittrichia graveolens</i>	Stinkwort
<i>Euchiton collinus</i> s.l.	Clustered/Creeping Cudweed
<i>Euchiton collinus</i> s.s.	Creeping Cudweed
<i>Euchiton involucratus</i> s.l.	Common Cudweed
<i>Euchiton involucratus</i> s.s.	Star Cudweed
<i>Euchiton sphaericus</i>	Annual Cudweed
<i>Euchiton</i> spp.	Cudweed
* <i>Euryops abrotanifolius</i>	Winter Euryops
* <i>Galinsoga parviflora</i>	Gallant Soldier
* <i>Gamochaeta calviceps</i>	Silky Cudweed
* <i>Gamochaeta purpurea</i> s.l.	Purple Cudweed
* <i>Gamochaeta purpurea</i> s.s.	Spiked Cudweed
* <i>Gamochaeta</i> spp.	American Cudweed
* <i>Gazania linearis</i>	Gazania
* <i>Gazania</i> spp.	Gazania
<i>Gnaphalium indutum</i>	Tiny Cudweed
<i>Gnaphalium</i> spp.	Cudweed
v <i>Helichrysum</i> aff. <i>rutidolepis</i> (Lowland Swamps)	Pale Swamp Everlasting
<i>Helichrysum scorpioides</i>	Button Everlasting
<i>Helichrysum</i> spp.	Everlasting
* <i>Helminthotheca echioides</i>	Ox-tongue
* <i>Hypochoeris glabra</i>	Smooth Cat's-ear
* <i>Hypochoeris radicata</i>	Cat's Ear
* <i>Lactuca saligna</i>	Willow-leaf Lettuce
* <i>Lactuca serriola</i>	Prickly Lettuce
<i>Lagenophora gracilis</i>	Slender Bottle-daisy
<i>Lagenophora stipitata</i>	Common Bottle-daisy
* <i>Leontodon taraxacoides</i> subsp. <i>taraxacoides</i>	Hairy Hawkbit
<i>Leptinella reptans</i> s.l.	Creeping Cotula
<i>Leptorhynchos tenuifolius</i>	Wiry Buttons
<i>Leucophyta brownii</i>	Cushion Bush
<i>Olearia axillaris</i>	Coast Daisy-bush
<i>Olearia glandulosa</i>	Swamp Daisy-bush
<i>Olearia glutinosa</i>	Sticky Daisy-bush

<i>Olearia lirata</i>	Snowy Daisy-bush
<i>Olearia ramulosa</i>	Twiggy Daisy-bush
<i>Olearia ramulosa</i> var. <i>ramulosa</i>	Twiggy Daisy-bush
<i>Olearia</i> spp.	Daisy Bush
<i>Ozothamnus ferrugineus</i>	Tree Everlasting
<i>Ozothamnus obcordatus</i>	Grey Everlasting
<i>Ozothamnus rosmarinifolius</i>	Rosemary Everlasting
<i>Ozothamnus turbinatus</i>	Coast Everlasting
<i>Pseudognaphalium luteoalbum</i>	Jersey Cudweed
* <i>Senecio angulatus</i>	Climbing Groundsel
<i>Senecio biserratus</i>	Jagged Fireweed
<i>Senecio glomeratus</i>	Annual Fireweed
<i>Senecio hispidulus</i> s.l.	Rough Fireweed
* <i>Senecio jacobaea</i>	Ragwort
<i>Senecio minimus</i>	Shrubby Fireweed
<i>Senecio pinnatifolius</i>	Variable Groundsel
<i>Senecio prenanthoides</i>	Beaked Fireweed
V v <i>Senecio psilocarpus</i>	Swamp Fireweed
<i>Senecio quadridentatus</i>	Cotton Fireweed
<i>Senecio</i> spp.	Groundsel
<i>Senecio tenuiflorus</i> s.l.	Slender Fireweed
<i>Senecio tenuiflorus</i> s.s.	Slender Fireweed
* <i>Senecio vulgaris</i>	Common Groundsel
<i>Solenogyne dominii</i>	Smooth Solenogyne
<i>Solenogyne gunnii</i>	Hairy Solenogyne
* <i>Soliva</i> spp.	Jo Jo
* <i>Sonchus asper</i> s.l.	Rough Sow-thistle
* <i>Sonchus asper</i> s.s.	Rough Sow-thistle
* <i>Sonchus oleraceus</i>	Common Sow-thistle
<i>Stuartina muelleri</i>	Spoon Cudweed
* <i>Taraxacum officinale</i> spp. agg.	Garden Dandelion
<i>Taraxacum</i> spp.	Dandelion
* <i>Tragopogon porrifolius</i>	Salsify
* <i>Vellereophyton dealbatum</i>	White Cudweed
<i>Xerochrysum bracteatum</i>	Golden Everlasting
Betulaceae	
* <i>Betula</i> aff. <i>pubescens</i>	Birch
Bignoniaceae	
<i>Pandorea pandorana</i>	Wonga Vine
Boraginaceae	
<i>Cynoglossum suaveolens</i>	Sweet Hound's-tongue
* <i>Echium plantagineum</i>	Paterson's Curse
<i>Myosotis</i> spp.	Forget-me-not
* <i>Myosotis sylvatica</i>	Wood Forget-me-not
Brassicaceae	
* <i>Brassica fruticulosa</i>	Twiggy Turnip
* <i>Cakile maritima</i> ssp. <i>maritima</i>	Sea Rocket
* <i>Capsella bursa-pastoris</i>	Shepherd's Purse
* <i>Cardamine hirsuta</i> s.l.	Common Bitter-cress

* <i>Diplotaxis tenuifolia</i>	Sand Rocket
<i>Hymenobolus procumbens</i>	Oval Purse
* <i>Nasturtium microphyllum</i>	Brown Watercress
* <i>Nasturtium officinale</i>	Watercress
* <i>Raphanus raphanistrum</i>	Wild Radish
* <i>Rapistrum rugosum</i>	Giant Mustard
Brunoniaceae	
<i>Brunonia australis</i>	Blue Pincushion
Cactaceae	
* <i>Austrocylindropuntia cylindrica</i>	Cane Cactus
Caesalpiniaceae	
* <i>Senna multiglandulosa</i>	Downy Senna
Callitrichaceae	
* <i>Callitriche stagnalis</i>	Common Starwort
Campanulaceae	
<i>Isotoma fluviatilis</i> subsp. <i>australis</i>	Swamp Isotome
<i>Lobelia anceps</i>	Angled Lobelia
<i>Lobelia pratioides</i>	Poison Lobelia
<i>Lobelia</i> spp.	Lobelia
<i>Wahlenbergia gracilentia</i> s.l.	Annual Bluebell
<i>Wahlenbergia gracilis</i>	Sprawling Bluebell
<i>Wahlenbergia gymnoclada</i>	Naked Bluebell
<i>Wahlenbergia multicaulis</i>	Branching Bluebell
<i>Wahlenbergia</i> spp.	Bluebell
<i>Wahlenbergia stricta</i> subsp. <i>stricta</i>	Tall Bluebell
Caprifoliaceae	
* <i>Lonicera japonica</i>	Japanese Honeysuckle
* <i>Viburnum tinus</i>	Laurestinus
Caryophyllaceae	
* <i>Arenaria leptoclados</i>	Lesser Thyme-leaved Sandwort
Caryophyllaceae spp.	Chickweed
* <i>Cerastium diffusum</i>	Sea Mouse-ear Chickweed
* <i>Cerastium glomeratum</i> s.l.	Common Mouse-ear Chickweed
* <i>Cerastium glomeratum</i> s.s.	Sticky Mouse-ear Chickweed
* <i>Cerastium</i> spp.	Mouse-ear Chickweed
* <i>Moenchia erecta</i>	Erect Chickweed
* <i>Polycarpon tetraphyllum</i>	Four-leaved Allseed
* <i>Sagina apetala</i>	Common Pearlwort
* <i>Silene gallica</i>	French Catchfly
* <i>Silene</i> spp.	Catchfly
* <i>Spergula arvensis</i>	Corn Spurrey
* <i>Spergula pentandra</i>	Five-stamen Corn-spurrey
* <i>Spergularia rubra</i> s.s.	Red Sand-spurrey
* <i>Stellaria media</i>	Chickweed
Casuarinaceae	
<i>Allocasuarina littoralis</i>	Black Sheoak

<i>Allocasuarina misera/paradoxa</i>	Slender/Green Sheoak
<i>Allocasuarina paludosa</i>	Scrub Sheoak
<i>Allocasuarina paradoxa</i>	Green Sheoak
<i>Allocasuarina verticillata</i>	Drooping Sheoak
<i>Casuarina</i> spp.	Sheoak
Chenopodiaceae	
<i>Atriplex cinerea</i>	Coast Saltbush
* <i>Atriplex prostrata</i>	Hastate Orache
<i>Atriplex semibaccata</i>	Berry Saltbush
* <i>Chenopodium album</i>	Fat Hen
<i>Chenopodium glaucum</i>	Glaucous Goosefoot
<i>Chenopodium pumilio</i>	Clammy Goosefoot
<i>Einadia hastata</i>	Saloop
<i>Enchylaena tomentosa</i> var. <i>tomentosa</i>	Ruby Saltbush
<i>Rhagodia candolleana</i> subsp. <i>candolleana</i>	Seaberry Saltbush
<i>Sarcocornia quinqueflora</i>	Beaded Glasswort
<i>Sarcocornia</i> spp.	Glasswort
<i>Suaeda australis</i>	Austral Seablite
<i>Threlkeldia diffusa</i>	Coast Bonefruit
Clusiaceae	
<i>Hypericum gramineum</i>	Small St John's Wort
<i>Hypericum japonicum</i>	Matted St John's Wort
* <i>Hypericum perforatum</i> subsp. <i>veronense</i>	St John's Wort
* <i>Hypericum tetrapterum</i>	St Peter's Wort
Convolvulaceae	
<i>Calystegia sepium</i> subsp. <i>roseata</i>	Large Bindweed
<i>Dichondra repens</i>	Kidney-weed
Crassulaceae	
* <i>Bryophyllum delagoense</i>	Mother of Millions
* <i>Cotyledon orbiculata</i>	Pig's Ear
* <i>Crassula alata</i> var. <i>alata</i>	Three-part Crassula
<i>Crassula closiana</i>	Stalked Crassula
<i>Crassula colorata</i> var. <i>acuminata</i>	Dense Crassula
<i>Crassula decumbens</i> var. <i>decumbens</i>	Spreading Crassula
<i>Crassula helmsii</i>	Swamp Crassula
* <i>Crassula multicava</i> subsp. <i>multicava</i>	Shade Crassula
* <i>Crassula natans</i> var. <i>minus</i>	Water Crassula
<i>Crassula peduncularis</i>	Purple Crassula
<i>Crassula sieberiana</i> s.l.	Sieber Crassula
<i>Crassula</i> spp.	Crassula
<i>Crassula tetramera</i>	Australian Stonecrop
* <i>Sedum praealtum</i> subsp. <i>praealtum</i>	Shrubby Stonecrop
Cunoniaceae	
<i>Bauera rubioides</i>	Wiry Bauera
Dilleniaceae	
<i>Hibbertia acicularis</i>	Prickly Guinea-flower
<i>Hibbertia fasciculata</i> var. <i>prostrata</i>	Bundled Guinea-flower
<i>Hibbertia riparia</i>	Erect Guinea-flower

<i>Hibbertia sericea</i> s.l.	Silky Guinea-flower
<i>Hibbertia sericea</i> s.s.	Silky Guinea-flower
<i>Hibbertia stricta</i> s.l.	Upright Guinea-flower
Droseraceae	
<i>Drosera binata</i>	Forked Sundew
<i>Drosera glanduligera</i>	Scarlet Sundew
<i>Drosera macrantha</i>	Climbing Sundew
<i>Drosera peltata</i>	Pale Sundew
<i>Drosera peltata</i> subsp. <i>auriculata</i>	Tall Sundew
<i>Drosera peltata</i> subsp. <i>peltata</i>	Pale Sundew
<i>Drosera pygmaea</i>	Tiny Sundew
<i>Drosera spatulata</i>	Rosy Sundew
<i>Drosera</i> spp.	Sundew
<i>Drosera whittakeri</i> subsp. <i>aberrans</i>	Scented Sundew
Elatinaceae	
<i>Elatine gratioloides</i>	Waterwort
Epacridaceae	
<i>Acrotriche prostrata</i>	Trailing Ground-berry
<i>Acrotriche serrulata</i>	Honey-pots
<i>Astroloma humifusum</i>	Cranberry Heath
<i>Brachyloma ciliatum</i>	Fringed Brachyloma
<i>Epacris impressa</i>	Common Heath
<i>Epacris obtusifolia</i>	Blunt-leaf Heath
<i>Leucopogon australis</i>	Spike Beard-heath
<i>Leucopogon ericoides</i>	Pink Beard-heath
<i>Leucopogon parviflorus</i>	Coast Beard-heath
<i>Leucopogon virgatus</i>	Common Beard-heath
<i>Leucopogon virgatus</i> var. <i>virgatus</i>	Common Beard-heath
<i>Monotoca scoparia</i>	Prickly Broom-heath
<i>Sprengelia incarnata</i>	Pink Swamp-heath
Ericaceae	
* <i>Erica baccans</i>	Berry-flower Heath
* <i>Erica lusitanica</i>	Spanish Heath
* <i>Erica quadrangularis</i>	Angled Heath
Euphorbiaceae	
<i>Amperea xiphoclada</i> var. <i>xiphoclada</i>	Broom Spurge
* <i>Euphorbia peplus</i>	Petty Spurge
<i>Poranthera microphylla</i>	Small Poranthera
<i>Ricinocarpus pinifolius</i>	Wedding Bush
Fabaceae	
<i>Aotus ericoides</i>	Common Aotus
<i>Bossiaea cinerea</i>	Showy Bossiaea
<i>Bossiaea prostrata</i>	Creeping Bossiaea
* <i>Callistachys lanceolata</i>	Greenbush
* <i>Chamaecytisus palmensis</i>	Tree Lucerne
* <i>Cytisus scoparius</i>	English Broom
<i>Daviesia latifolia</i>	Hop Bitter-pea
<i>Daviesia leptophylla</i>	Narrow-leaf Bitter-pea

<i>Dillwynia cinerascens s.l.</i>	Grey Parrot-pea
<i>Dillwynia cinerascens s.s.</i>	Grey Parrot-pea
<i>Dillwynia glaberrima</i>	Smooth Parrot-pea
<i>Dillwynia sericea</i>	Showy Parrot-pea
<i>Dillwynia</i> spp.	Parrot Pea
* <i>Dipogon lignosus</i>	Common Dipogon
* <i>Genista linifolia</i>	Flax-leaf Broom
* <i>Genista monspessulana</i>	Montpellier Broom
* <i>Genista X spachiana</i>	Madeira Broom
<i>Glycine clandestina</i>	Twining Glycine
<i>Goodia lotifolia</i> var. <i>lotifolia</i>	Common Golden-tip
# <i>Hardenbergia violacea</i>	Purple Coral-pea
<i>Hovea heterophylla</i>	Common Hovea
<i>Indigofera australis</i>	Austral Indigo
<i>Kennedia prostrata</i>	Running Postman
# <i>Kennedia rubicunda</i>	Dusky Coral-pea
* <i>Lotus angustissimus</i>	Slender Bird's-foot Trefoil
* <i>Lotus corniculatus</i>	Bird's-foot Trefoil
* <i>Lotus</i> spp. (<i>naturalised</i>)	Trefoil
* <i>Lotus subbiflorus</i>	Hairy Bird's-foot Trefoil
* <i>Medicago polymorpha</i>	Burr Medic
* <i>Medicago sativa</i> subsp. <i>sativa</i>	Lucerne
* <i>Medicago</i> spp.	Medic
* <i>Melilotus indicus</i>	Sweet Melilot
* <i>Ornithopus compressus</i>	Yellow Serradella
* <i>Ornithopus pinnatus</i>	Sand Bird's-foot
<i>Platylobium formosum</i>	Handsome Flat-pea
<i>Platylobium obtusangulum</i>	Common Flat-pea
* <i>Podalyria sericea</i>	Silky Podalyria
<i>Pultenaea dentata</i>	Clustered Bush-pea
<i>Pultenaea gunnii</i>	Golden Bush-pea
<i>Pultenaea sericea</i>	Chaffy Bush-pea
<i>Pultenaea stricta</i>	Rigid Bush-pea
<i>Sphaerolobium minus</i>	Eastern Globe-pea
<i>Sphaerolobium vimineum</i>	Leafless Globe-pea
<i>Swainsona lessertiifolia</i>	Coast Swainson-pea
* <i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Narrow-leaf Clover
* <i>Trifolium cernuum</i>	Drooping-flower Clover
* <i>Trifolium dubium</i>	Suckling Clover
* <i>Trifolium fragiferum</i> var. <i>fragiferum</i>	Strawberry Clover
* <i>Trifolium glomeratum</i>	Cluster Clover
* <i>Trifolium incarnatum</i> var. <i>incarnatum</i>	Crimson Clover
* <i>Trifolium pratense</i>	Red Clover
* <i>Trifolium repens</i> var. <i>repens</i>	White Clover
* <i>Trifolium</i> spp.	Clover
* <i>Trifolium subterraneum</i>	Subterranean Clover
* <i>Ulex europaeus</i>	Gorse
* <i>Vicia sativa</i>	Common Vetch
* <i>Vicia sativa</i> subsp. <i>sativa</i>	Common Vetch
* <i>Vicia tetrasperma</i>	Slender Vetch
<i>Viminaria juncea</i>	Golden Spray

Fumariaceae

- * *Fumaria bastardii* Bastards Fumitory
- * *Fumaria muralis* subsp. *muralis* Wall Fumitory
- * *Fumaria officinalis* spp. agg. Fumitory
- * *Fumaria* spp. Fumitory

Gentianaceae

- * *Centaurium erythraea* Common Centaury
- * *Centaurium* spp. Centaury
- * *Centaurium tenuiflorum* Slender Centaury
- * *Cicendia filiformis* Slender Cicendia
- * *Cicendia quadrangularis* Square Cicendia

Geraniaceae

- * *Geranium dissectum* Cut-leaf Cranesbill
- * *Geranium molle* var. *molle* Dovesfoot
- Geranium potentilloides* Cinquefoil Cranesbill
- Geranium retrorsum* s.l. Grassland Cranesbill
- Geranium solanderi* s.l. Austral Cranesbill
- Geranium* spp. Crane's Bill
- Pelargonium australe* Austral Stork's-bill
- * *Pelargonium capitatum* Rose-scented Pelargonium
- Pelargonium inodorum* Kopata
- Pelargonium* spp. Stork's Bill
- * *Pelargonium X domesticum* Regal Pelargonium

Goodeniaceae

- Goodenia elongata* Lanky Goodenia
- Goodenia geniculata* Bent Goodenia
- Goodenia humilis* Swamp Goodenia
- Goodenia lanata* Trailing Goodenia
- Goodenia ovata* Hop Goodenia
- Selliera radicans* Shiny Swamp-mat

Haloragaceae

- Gonocarpus humilis* Shade Raspwort
- Gonocarpus micranthus* Creeping Raspwort
- Gonocarpus micranthus* subsp. *micranthus* Creeping Raspwort
- Gonocarpus* spp. Raspwort
- Gonocarpus tetragynus* Common Raspwort
- Gonocarpus teucroides* s.l. Germander Raspwort
- Haloragis heterophylla* Varied Raspwort
- Myriophyllum amphibium* Broad Water-milfoil
- * *Myriophyllum aquaticum* Parrot's Feather
- Myriophyllum crispatum* Upright Water-milfoil
- Myriophyllum integrifolium* Tiny Water-milfoil
- Myriophyllum simulans* Amphibious Water-milfoil
- Myriophyllum* spp. Water-milfoil

Lamiaceae

- Lycopus australis* Australian Gipsywort
- * *Melissa officinalis* Lemon Balm
- * *Mentha pulegium* Pennyroyal

<i>Plectranthus</i> spp.	Plectranthus
<i>Prostanthera lasianthos</i>	Victorian Christmas-bush
* <i>Prunella vulgaris</i>	Self-heal
Lauraceae	
<i>Cassytha glabella</i>	Slender Dodder-laurel
<i>Cassytha melantha</i>	Coarse Dodder-laurel
<i>Cassytha pubescens</i> s.s.	Downy Dodder-laurel
Lentibulariaceae	
<i>Utricularia australis</i>	Yellow Bladderwort
<i>Utricularia dichotoma</i>	Fairies' Aprons
* <i>Utricularia gibba</i>	Floating Bladderwort
<i>Utricularia tenella</i>	Pink Bladderwort
Linaceae	
<i>Linum marginale</i>	Native Flax
Loganiaceae	
<i>Mitrasacme</i> spp. (s.l.)	Mitrewort
<i>Phyllangium distylis</i>	Tiny Mitrewort
Loranthaceae	
<i>Amyema miquelii</i>	Box Mistletoe
<i>Amyema pendula</i>	Drooping Mistletoe
<i>Amyema quandang</i> var. <i>quandang</i>	Grey Mistletoe
<i>Amyema</i> spp.	Mistletoe
<i>Muellerina eucalyptoides</i>	Creeping Mistletoe
Lythraceae	
<i>Lythrum hyssopifolia</i>	Small Loosestrife
* <i>Lythrum junceum</i>	Mediterranean Loosestrife
Malvaceae	
* <i>Malva dendromorpha</i>	Tree Mallow
* <i>Malva nicaeensis</i>	Mallow of Nice
* <i>Malva parviflora</i>	Small-flower Mallow
<i>Malva</i> spp.	Mallow
* <i>Modiola caroliniana</i>	Red-flower Mallow
Menyanthaceae	
<i>Villarsia exaltata</i>	Erect Marsh-flower
<i>Villarsia reniformis</i>	Running Marsh-flower
Mimosaceae	
* <i>Acacia baileyana</i>	Cootamundra Wattle
<i>Acacia brownii</i>	Heath Wattle
<i>Acacia dealbata</i>	Silver Wattle
* <i>Acacia decurrens</i>	Early Black-wattle
* <i>Acacia elata</i>	Cedar Wattle
# <i>Acacia floribunda</i>	White Sallow-wattle
<i>Acacia genistifolia</i>	Spreading Wattle
# <i>Acacia howittii</i>	Sticky Wattle
<i>Acacia implexa</i>	Lightwood
* <i>Acacia iteaphylla</i>	Flinders Range Wattle

(#) <i>Acacia longifolia</i> s.l.	Coast/Sallow Wattle
# <i>Acacia longifolia</i> subsp. <i>longifolia</i>	Sallow Wattle
(#) <i>Acacia longifolia</i> subsp. <i>sophorae</i>	Coast Wattle
<i>Acacia mearnsii</i>	Black Wattle
<i>Acacia melanoxydon</i>	Blackwood
<i>Acacia oxycedrus</i>	Spike Wattle
<i>Acacia paradoxa</i>	Hedge Wattle
* <i>Acacia prominens</i>	Gosford Wattle
<i>Acacia pycnantha</i>	Golden Wattle
# <i>Acacia retinodes</i>	Wirilda
* <i>Acacia saligna</i>	Golden Wreath Wattle
<i>Acacia</i> spp.	Wattle
<i>Acacia stricta</i>	Hop Wattle
<i>Acacia suaveolens</i>	Sweet Wattle
<i>Acacia ulicifolia</i>	Juniper Wattle
<i>Acacia verticillata</i>	Prickly Moses
<i>Acacia verticillata</i> subsp. <i>ovoidea</i>	Ovoid Prickly Moses
<i>Acacia verticillata</i> subsp. <i>verticillata</i>	Prickly Moses
* <i>Paraserianthes lophantha</i> subsp. <i>lophantha</i>	Cape Wattle

Myoporaceae

# <i>Myoporum insulare</i>	Common Boobialla
<i>Myoporum</i> sp. 1	Sticky Boobialla

Myrtaceae

* <i>Agonis flexuosa</i>	Willow Myrtle
<i>Callistemon sieberi</i>	River Bottlebrush
# <i>Corymbia maculata</i>	Spotted Gum
# <i>Eucalyptus botryoides</i>	Southern Mahogany
<i>Eucalyptus camaldulensis</i>	River Red-gum
<i>Eucalyptus cephalocarpa</i> s.l.	Silver-leaf Stringybark
r <i>Eucalyptus fulgens</i>	Green Scentbark
# <i>Eucalyptus globulus</i>	Southern Blue-gum
<i>Eucalyptus macrorhyncha</i>	Red Stringybark
<i>Eucalyptus obliqua</i>	Messmate Stringybark
<i>Eucalyptus ovata</i>	Swamp Gum
<i>Eucalyptus ovata</i> var. <i>ovata</i>	Swamp Gum
<i>Eucalyptus pauciflora</i>	Snow Gum
<i>Eucalyptus radiata</i> subsp. <i>radiata</i>	Narrow-leaf Peppermint
<i>Eucalyptus</i> spp.	Eucalypt
<i>Eucalyptus viminalis</i>	Manna Gum
<i>Eucalyptus viminalis</i> subsp. <i>pyroriana</i>	Coast Manna-gum
e <i>Eucalyptus X studleyensis</i>	Studley Park Gum
<i>Kunzea ericoides</i> spp. agg.	Burgan
<i>Leptospermum continentale</i>	Prickly Tea-tree
# <i>Leptospermum laevigatum</i>	Coast Tea-tree
<i>Leptospermum lanigerum</i>	Woolly Tea-tree
<i>Leptospermum myrsinoides</i>	Heath Tea-tree
# <i>Melaleuca armillaris</i> subsp. <i>armillaris</i>	Giant Honey-myrtle
<i>Melaleuca ericifolia</i>	Swamp Paperbark
* <i>Melaleuca hypericifolia</i>	Hillock Bush
<i>Melaleuca lanceolata</i> subsp. <i>lanceolata</i>	Moonah

<i>Melaleuca</i> spp.	Honey-myrtle
<i>Melaleuca squarrosa</i>	Scented Paperbark
Oleaceae	
* <i>Fraxinus angustifolia</i>	Desert Ash
* <i>Fraxinus angustifolia</i> subsp. <i>oxycarpa</i>	Syrian Ash
* <i>Fraxinus</i> spp.	Ash
* <i>Ligustrum</i> spp.	Privet
* <i>Olea europaea</i>	Olive
Onagraceae	
<i>Epilobium billardierianum</i>	Variable Willow-herb
* <i>Epilobium ciliatum</i>	Glandular Willow-herb
<i>Epilobium hirtigerum</i>	Hairy Willow-herb
<i>Epilobium pallidiflorum</i>	Showy Willow-herb
<i>Epilobium</i> spp.	Willow Herb
Oxalidaceae	
<i>Oxalis corniculata</i> s.l.	Yellow Wood-sorrel
* <i>Oxalis corniculata</i> s.s.	Creeping Wood-sorrel
* <i>Oxalis debilis</i> var. <i>corymbosa</i>	Pink Shamrock
<i>Oxalis exilis</i>	Shady Wood-sorrel
* <i>Oxalis incarnata</i>	Pale Wood-sorrel
* <i>Oxalis latifolia</i>	Large-leaf Wood-sorrel
<i>Oxalis perennans</i>	Grassland Wood-sorrel
* <i>Oxalis pes-caprae</i>	Soursof
* <i>Oxalis purpurea</i>	Large-flower Wood-sorrel
<i>Oxalis</i> spp.	Wood Sorrel
* <i>Oxalis</i> spp. (naturalised)	Wood Sorrel
Papaveraceae	
* <i>Eschscholzia californica</i>	Californian Poppy
* <i>Glaucium flavum</i>	Yellow Horned-poppy
Passifloraceae	
* <i>Passiflora subpeltata</i>	White Passion-fruit
* <i>Passiflora tarminiana</i>	Banana Passion-fruit
Phytolaccaceae	
* <i>Phytolacca octandra</i>	Red-ink Weed
Pittosporaceae	
<i>Billardiera scandens</i>	Common Apple-berry
<i>Billardiera scandens</i> var. <i>scandens</i>	Common Apple-berry
<i>Bursaria spinosa</i>	Sweet Bursaria
<i>Bursaria spinosa</i> subsp. <i>spinosa</i>	Sweet Bursaria
# <i>Pittosporum undulatum</i>	Sweet Pittosporum
* <i>Sollya heterophylla</i>	Bluebell Creeper
Plantaginaceae	
* <i>Plantago australis</i>	Southern Plantain
* <i>Plantago coronopus</i>	Buck's-horn Plantain
* <i>Plantago coronopus</i> subsp. <i>coronopus</i>	Buck's-horn Plantain
<i>Plantago debilis</i>	Shade Plantain

* <i>Plantago lanceolata</i>	Ribwort
* <i>Plantago major</i>	Greater Plantain
Polygalaceae	
<i>Comesperma calymega</i>	Blue-spike Milkwort
<i>Comesperma ericinum</i>	Heath Milkwort
<i>Comesperma</i> spp.	Milkwort
<i>Comesperma volubile</i>	Love Creeper
* <i>Polygala myrtifolia</i> var. <i>myrtifolia</i>	Myrtle-leaf Milkwort
Polygonaceae	
* <i>Acetosa sagittata</i>	Rambling Dock
* <i>Acetosella vulgaris</i>	Sheep Sorrel
<i>Muehlenbeckia adpressa</i>	Climbing Lignum
<i>Persicaria decipiens</i>	Slender Knotweed
<i>Persicaria praetermissa</i>	Spotted Knotweed
* <i>Polygonum aviculare</i> s.l.	Prostrate Knotweed
* <i>Polygonum aviculare</i> s.s.	Hogweed
<i>Rumex bidens</i>	Mud Dock
<i>Rumex brownii</i>	Slender Dock
* <i>Rumex conglomeratus</i>	Clustered Dock
* <i>Rumex crispus</i>	Curled Dock
* <i>Rumex obtusifolius</i> subsp. <i>obtusifolius</i>	Broad-leaf Dock
* <i>Rumex pulcher</i> subsp. <i>pulcher</i>	Fiddle Dock
* <i>Rumex</i> spp. (naturalised)	Dock (naturalised)
Portulacaceae	
<i>Montia fontana</i>	Water Blinks
<i>Neopaxia australasica</i>	White Purslane
<i>Portulaca oleracea</i>	Common Purslane
Primulaceae	
* <i>Anagallis arvensis</i>	Pimpernel
* <i>Anagallis minima</i>	Chaffweed
<i>Samolus repens</i>	Creeping Brookweed
Proteaceae	
<i>Banksia integrifolia</i> subsp. <i>integrifolia</i>	Coast Banksia
<i>Banksia marginata</i>	Silver Banksia
* <i>Grevillea robusta</i>	Silky Oak
<i>Grevillea</i> spp.	Grevillea
<i>Hakea decurrens</i> subsp. <i>physocarpa</i>	Bushy Needlewood
* <i>Hakea drupacea</i>	Sweet Hakea
* <i>Hakea laurina</i>	Pincushion Hakea
<i>Hakea nodosa</i>	Yellow Hakea
<i>Hakea sericea</i> s.l.	Bushy Needlewood
<i>Hakea teretifolia</i> subsp. <i>hirsuta</i>	Dagger Hakea
<i>Hakea ulicina</i>	Furze Hakea
<i>Isopogon ceratophyllus</i>	Horny Cone-bush
<i>Persoonia juniperina</i>	Prickly Geebung
Ranunculaceae	
<i>Clematis aristata</i>	Mountain Clematis
<i>Clematis glycinoides</i> var. <i>glycinoides</i>	Forest Clematis

<i>Clematis microphylla</i>	Small-leaved Clematis
<i>Ranunculus amphitrichus</i>	Small River Buttercup
r <i>Ranunculus amplus</i>	Feather-leaf Buttercup
<i>Ranunculus glabrifolius</i>	Shining Buttercup
<i>Ranunculus inundatus</i>	River Buttercup
* <i>Ranunculus muricatus</i>	Sharp Buttercup
<i>Ranunculus pumilio</i>	Ferny Small-flower Buttercup
* <i>Ranunculus repens</i>	Creeping Buttercup
* <i>Ranunculus sceleratus</i> subsp. <i>sceleratus</i>	Celery Buttercup
<i>Ranunculus</i> spp.	Buttercup

Rhamnaceae

<i>Pomaderris paniculosa</i> subsp. <i>paralia</i>	Coast Pomaderris
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Rosaceae

<i>Acaena agnipila</i>	Hairy Sheep's Burr
<i>Acaena echinata</i>	Sheep's Burr
<i>Acaena novae-zelandiae</i>	Bidgee-widgee
<i>Acaena ovina</i>	Australian Sheep's Burr
<i>Acaena</i> spp.	Sheep's Burr
* <i>Aphanes arvensis</i>	Parsley Piert
* <i>Cotoneaster divaricatus</i>	Green Cotoneaster
* <i>Cotoneaster franchetii</i>	Grey Cotoneaster
* <i>Cotoneaster glaucophyllus</i> var. <i>serotinus</i>	Large-leaf Cotoneaster
* <i>Cotoneaster pannosus</i>	Velvet Cotoneaster
* <i>Cotoneaster</i> spp.	Cotoneaster
* <i>Crataegus monogyna</i>	Hawthorn
* <i>Malus pumila</i>	Apple
* <i>Photinia glabra</i>	Red-leaf Photinia
* <i>Prunus cerasifera</i>	Cherry Plum
* <i>Prunus cerasifera</i> 'Nigra'	Purple-leaf Cherry-plum
* <i>Prunus persica</i>	Peach
* <i>Prunus spinosa</i>	Blackthorn
* <i>Prunus</i> spp.	Prunus
* <i>Rhaphiolepis indica</i>	Indian Hawthorn
* <i>Rosa rubiginosa</i>	Sweet Briar
Rosaceae spp.	Rosid
* <i>Rubus anglocandicans</i>	Blackberry
* <i>Rubus fruticosus</i> spp. agg.	Blackberry
<i>Rubus parvifolius</i>	Small-leaf Bramble
* <i>Rubus polyanthemus</i>	Blackberry
<i>Rubus</i> spp.	Bramble

Rubiaceae

<i>Coprosma quadrifida</i>	Prickly Currant-bush
* <i>Coprosma repens</i>	Mirror Bush
* <i>Galium aparine</i>	Cleavers
<i>Galium australe</i>	Tangled Bedstraw
<i>Galium gaudichaudii</i>	Rough Bedstraw
* <i>Galium murale</i>	Small Goosegrass
<i>Opercularia ovata</i>	Broad-leaf Stinkweed
<i>Opercularia varia</i>	Variable Stinkweed

Rutaceae

<i>Boronia muelleri</i>	Forest Boronia
<i>Boronia parviflora</i>	Swamp Boronia
<i>Correa alba</i>	White Correa
<i>Correa reflexa</i>	Common Correa
<i>Correa reflexa</i> var. <i>reflexa</i>	Common Correa

Salicaceae

* <i>Populus</i> spp.	Poplar
* <i>Salix alba</i>	White Willow
* <i>Salix babylonica</i> s.l.	Weeping Willow
* <i>Salix cinerea</i>	Grey Sallow
* <i>Salix</i> spp.	Willow

Santalaceae

<i>Exocarpos cupressiformis</i>	Cherry Ballart
<i>Exocarpos strictus</i>	Pale-fruit Ballart

Sapindaceae

<i>Dodonaea viscosa</i> subsp. <i>cuneata</i>	Wedge-leaf Hop-bush
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Scrophulariaceae

<i>Euphrasia collina</i>	Purple Eyebright
<i>Gratiola peruviana</i>	Austral Brooklime
<i>Gratiola pubescens</i>	Glandular Brooklime
<i>Limosella australis</i>	Austral Mudwort
* <i>Parentucellia viscosa</i>	Yellow Bartsia
* <i>Veronica arvensis</i>	Wall Speedwell
<i>Veronica calycina</i>	Hairy Speedwell
<i>Veronica gracilis</i>	Slender Speedwell
* <i>Veronica persica</i>	Persian Speedwell
<i>Veronica plebeia</i>	Trailing Speedwell
<i>Veronica</i> spp.	Speedwell

Solanaceae

* <i>Lycium barbarum</i>	Chinese Box-thorn
* <i>Lycium ferocissimum</i>	African Box-thorn
* <i>Salpichroa organifolia</i>	Pampas Lily-of-the-Valley
<i>Solanum aviculare</i>	Kangaroo Apple
* <i>Solanum chenopodioides</i>	Whitetip Nightshade
* <i>Solanum douglasii</i>	Douglas' Nightshade
<i>Solanum laciniatum</i>	Large Kangaroo Apple
* <i>Solanum mauritanum</i>	Wild Tobacco Tree
* <i>Solanum nigrum</i> s.s.	Black Nightshade
* <i>Solanum pseudocapsicum</i>	Madeira Winter-cherry
<i>Solanum</i> spp.	Nightshade

Stackhousiaceae

<i>Stackhousia monogyna</i>	Creamy Stackhousia
<i>Stackhousia viminea</i>	Slender Stackhousia

Stylidiaceae

<i>Stylidium beagleholei</i>	Beaglehole's Triggerplant
<i>Stylidium graminifolium</i>	Grass Triggerplant

<i>Stylidium inundatum</i>	Hundreds and Thousands
<i>Stylidium perpusillum</i>	Slender Triggerplant
Tamaricaceae	
* <i>Tamarix</i> spp.	Tamarisk
Thymelaeaceae	
<i>Pimelea humilis</i>	Common Rice-flower
<i>Pimelea linifolia</i>	Slender Rice-flower
<i>Pimelea octophylla</i>	Woolly Rice-flower
Tremandraceae	
<i>Tetradlea ciliata</i>	Pink-bells
<i>Tetradlea pilosa</i>	Hairy Pink-bells
Tropaeolaceae	
* <i>Tropaeolum majus</i>	Nasturtium
Urticaceae	
* <i>Urtica urens</i>	Small Nettle
Verbenaceae	
* <i>Lantana camara</i> var. <i>camara</i>	Lantana
Violaceae	
<i>Viola cleistogamoides</i>	Hidden Violet
<i>Viola hederacea</i>	Ivy-leaf Violet
<i>Viola sieberiana</i> spp. agg.	Tiny Violet
<i>Viola</i> spp.	Violet

Appendix 4. Sites of remnant vegetation in the City of Frankston. April 2006.

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18 North Road (60 Cranbourne Rd), Langwarrin	108
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22 Langwarrin Flora & Fauna Reserve	112
23 Wattlebird Cres., Langwarrin	113
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43	Freeway Reserve, nth of Skye Rd, Frankston	133
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45	McClelland Drive, Pioneer quarry, Langwarrin	135
46	Studio Park, Langwarrin	136
47	DPI, Frankston North	137
48	Little Boggy Creek Reserve, Stevens Rd Reserve, Langwarrin	138
49	Boggy Creek, Quarry Rd, Appleberry Ave, Langwarrin	139
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51	Harold Road, Skye	141
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53	1005 Dandenong-Hastings Road, Skye	143
54	Mckays Road, 1205 -1209 Dandenong - Hastings Rd, Langwarrin	144
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61	Aqueduct Reserve, Langwarrin	151
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70	705 Robinsons Rd, Langwarrin	160
71	Camp Road, Langwarrin South	161
72	West Road, Robinsons Rd, Langwarrin South	162
73	Gardener Road, Langwarrin South	163
74	Weeroona Road, Langwarrin South	164
75	95 Highfield Dr., Langwarrin South	165
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77	35 & 45 West Road, Langwarrin South	167
78	30 Victoria Road, Langwarrin South	168
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81	Victoria Road – Dand.-Hastings Rd, Langwarrin South	171
82	Olivers Hill, Frankston South	172
83	Bergman Rd road reserve, Langwarrin	173
84	Oliphant Way Wetland, Seaford	174

85	Casuarina Reserve, Frankston South	175
86	13 Gum Hill Drive, Langwarrin	176
87	Shepherds Hut Rd, Langwarrin South	177
88	Frankston Pier to Somme Ave, Frankston	178
89	Frankston Beach, Long Island; Wells St to to Allawah Ave	179
90	Navarre Reserve, Frankston	180
91	Gumnut Bushland Reserve, Frankston	181
92	Illawong Reserve, Langwarrin	182
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105	Derinya Reserve, Frankston South	195
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107	Brahma Kumaris Retreat Centre, Frankston	197
108	Kackeraboite Creek, Frankston South	198

Table 1. Sites listed with previously assigned Site Numbers (Muir et al. 1997) and summarised site significance.

Site No.	Amalgamated Site No's.	1997 Site No.	Name	Site Significance
1	1 + 2	1	Frankston Reservoir, Frankston South	Very High
2	3	3	Paratea Reserve, Frankston South	Very High
3	5	5	Baxter Park, Frankston South	Very High
4	6 + 7 + 145	6	Upper Sweetwater Ck, Lawson Reserve, Frankston South	Very High
5	8	8	Sweetwater Ck & tributaries, B. Powell Dr, Marcus Rd, Frankston South	High
6	9	9	Sweetwater Ck Reserve, Frankston South	Very High
7	10 + 11	10	Newton Ave, Langwarrin South	High
8	12	12	McClelland Dr., Sherwood, Golf Links Dr, Langwarrin South	High
9	14	14	Bayside C College / FCC Reserve, Frankston South	Very High
10	15	15	Escarpment Drive Reserve, Stotts Lane, Frankston South	Very High
11	16 + 17	16	Robinsons Park, Wittenberg Reserve, Frankston	Very High
12	18 + 19	18	McClelland Dr, Railway & F'way Res, Langwarrin	Very High
13	20	20	Frankston Golf Club	Medium
14	21	21	Luke Cres., Frankston South	Very High
15	22	22	Wallace Av. Reserve, Frankston	High
16	23 + 24	23	Bunarong Park, Frankston	High
17	25 + 26	25	Willow Road Reserve, Frankston	Very High
18	27 + 28	27	North Road (60 Cranbourne Rd), Langwarrin	High
19	28	28	Acacia Heath, North Road, Langwarrin	Low-Medium
20	29	29	Acacia Heath, McClelland Dr, Langwarrin	Very High
21	30	30	60 North Road, Langwarrin	Medium
22	32	32	Langwarrin Flora & Fauna Reserve	Very High
23	33	33	Wattlebird Cres., Langwarrin	Very High
24	36 + 42	36	Kananook Creek North, Rosella St to Eel Race Drain	Very High
25	37 + 41	37	Seaford Foreshore Reserve	Very High
26	38 + 39	38	Kananook Creek South, Beach St to Nepean Hwy, Frankston	High
27	40	40	Kananook Ck Reserve, Frankston S.L.S.C.	High
28	43	43	Seaford Wetlands	National
29	44	44	Motorcycle/BMX Club, Seaford	High
30	45	45	Frankston Freeway, Seaford	Very High
31	46	46	Belvedere Reserve, Seaford	High
32	47	47	Belvedere Bushland Res / F'way Res., Seaford	Very High
33	48 + 49	48	Proposed Freeway Res, Fulmar St, Carrum Downs	Very High
34	50	50	G.K. Tucker Reserve, Carrum Downs	High
35	52	52	Carrum Downs Secondary College, Carrum Downs	Medium
36	53	53	Taylors Road, Skye	Medium
37	54 + 55	54	Long Island Country Club, Frankston	Medium

38	56 - 59	56	Peninsula Country Golf Club, Frankston	Very High
39	60	60	The Pines Flora and Fauna Res., Frankston North	Very High
40	61	61	Addition to the Pines - Ballarto Rd, Frankston North	High
41	62	62	The Pines Flora & Fauna Res - Dara Land, Frankston North	Very High
42	63	63	McClelland Dr / Boggy Creek, Langwarrin	High
43	65	65	Freeway Reserve, nth of Skye Rd, Frankston North	Low-Medium
44	66 + 68 + 69 + 71	66	Freeway Reserve & adj. land, south of Skye Rd, Frankston	High
45	67	67	McClelland Drive, Pioneer, Tamarisk Wetland, Langwarrin	High
46	70	70	Studio Park, Langwarrin	Very High
47	72	72	DPI, Frankston North	Very High
48	74 + 75	74	Little Boggy Creek Res, Stevens Rd Res, Lexton Dr, Langwarrin	Very High
49	76	76	Boggy Creek, Quarry Rd, Appleberry Ave, Langwarrin	Very High
50	77	77	Burdetts, Langwarrin	Very High
51	78	78	Harold Road, Skye	Medium
52	79	79	Highview Road, Skye	High
53	80	80	1005 Dandenong - Hastings Road, Skye	Very High
54	81	81	McKays Road, 1205 -1209 D'nong - Hastings Rd, Langwarrin	High
55	82	82	120 McKays Rd, 1265,1271 D'nong - Hastings Rd, Langwarrin	Medium
56	83	83	Grassmere Road, D-H Rd, Langwarrin	Very High
57	84	84	Kingston Road, Grassmere Rd, Langwarrin	Very High
58	85	85	Kingston Road, Karen Close, Langwarrin	High
59	86	86	Monique Bushland Reserve, Langwarrin	Medium
60	88	88	Union Road, Matthew Crt, Cranb - Frankston Rd, Langwarrin	High
61	90	90	Aqueduct Reserve, Langwarrin	Medium
62	91	91	Langwarrin Pony Club	High
63	92 + 93 + 94	92	385 -445 North Road, Langwarrin	High
64	95 + 96 + 97 + 98 + 99	95	1395-1461 D'nong-Hast Rd, 1 - 31 Bellbird Crt, Langwarrin	Very High
65	100 + 101	100	1555-1575 Dandenong-Hastings Rd, Leisureland Dr, Langwarrin	Very High
66	102 + 103	102	Centre Rd, Faith Crt, Langwarrin	Very High
67	104	104	Sunnybank Road, Langwarrin	Very High
68	105	105	Donald Road, Langwarrin South	Very High
69	106	106	Victory Road, Donald Rd, Langwarrin	High
70	107	107	705 Robinsons Rd, Langwarrin	High
71	108	108	Camp Road, Langwarrin South	Very High
72	109 + 110 + 118	109	West Road, Robinsons Rd, Langwarrin South	Very High
73	111	111	Gardener Road, Langwarrin South	Medium
74	112	112	Weeroona Road, Langwarrin South	High
75	113	113	95 Highfield Dr., Langwarrin South	Very High
76	114	114	Highfield Dr., 385 Baxter - Tooradin Rd, Langwarrin South	High
77	115	115	35 & 45 West Road, Langwarrin South	Very High
78	116	116	30 Victoria Road, Langwarrin South	Medium

79	117	117	50 Victoria Road, Langwarrin South	High
80	119 + 120	119	Baxter-Tooradin Rd, Victoria Rd, Langwarrin South	Medium
81	121	121	Victoria Road - D -Hastings Rd, Langwarrin South	Medium
82	122	122	Olivers Hill, Frankston South	High
83	123	123	Bergman Rd road reserve, Langwarrin	Very High
84	124	124	Oliphant Way Wetland, Seaford	Very High
85	125	125	Casuarina Reserve, Frankston South	Very High
86	126	126	13 Gum Hill Drive, Langwarrin	Very High
87	127	127	Shepherds Hut Rd, Langwarrin South	Very High
88	128	128	Frankston Pier to Somme Ave, Frankston South	Very High
89	129	129	Frankston Beach, Long Island; Wells St to Allawah Av	High-Very High
90	-		Navarre Reserve, Frankston	High
91	-		Gumnut Bushland Reserve, Frankston	High
92	-		Illawong Reserve, Langwarrin	Medium
93	-		Kooluna Reserve, Frankston	Medium
94	-		Clifton Reserve, Carrum Downs	Medium
95	-		Perkins Reserve, Carrum Downs	Medium
96	-		Lloyd Park, Cranbourne - Frankston Rd, Langwarrin	Very High
97	-		Oakwood Reserve, Carrum Downs	Medium
98	-	91	Council Reserve, North & Centre Roads, Langwarrin	Very High
99	-	-	Outlook Reserve, Frankston	Medium
100	-	-	Banjo Rise, Carrum Downs	Medium
101	-	-	Frankston Foreshore - Daveys Bay	Medium
102	-	-	Rinella Reserve, Frankston South	Very High
103	-	-	Overport Park, Frankston South	Very High
104	-	-	Macrosty Crt, Frankston	Low-Medium
105	-	-	Derinya Reserve, Frankston South	Very High
106	-	-	Esplanade Reserve, Frankston	Medium
107	-	15	Brahma Kumaris Retreat Centre, Frankston South	Very High
108	-	-	Kackeraboite Creek, Frankston South	High

SITE	1	NAME	Frankston Reservoir, Frankston South
Site Significance	Very High		
Area (Ha)	65.79		
Tenure	Public		
Biosites	Regional (#4658)		
Site notes	Mixture of intact remnant and highly modified vegetation. Overall value of site elevated by its size.		
Access problems	Yes – difficulties with some sections		
EVC 1	Grassy Woodland 175		
Habitat Score	41-59		
Status	Endangered		
Conservation Significance	Very High		
Invasive weed species	Sweet Pittosporum, Spanish Heath, Blackberry, Coast Wattle, Pines, Bluebell Creeper, Boneseed, Cedar Wattle		
Notes	Very variable condition due to major infestations of woody weeds in some areas. Large portion of this EVC regenerating from fire (southern section). Areas near Damp Heathland (north-west of site) have elements of damp Heathy Woodland.		
EVC 2	Gully Woodland 902		
Habitat Score	28-49		
Status	Endangered		
Conservation Significance	High-Very High		
Invasive weed species	Sweet Pittosporum, Blue-bell Creeper, Coast Wattle, Pines, Blackberry, Boneseed, Spanish Heath, Mirror Bush		
Notes	Very severe infestation of Sweet Pittosporum south of Reservoir, along Sweetwater Creek		
EVC 3	Damp Heathland 710		
Habitat Score	37-65		
Status	Rare		
Conservation Significance	High- Very High		
Invasive weed species	Bluebell Creeper, Coast Wattle, Pine, Sweet Pittosporum		
Notes	Dominated by Scrub Sheoke. Contains some elements of Damp Heathy Woodland and/or Swampy Woodland.		
EVC 4	Aquatic Sedgeland 308		
Habitat Score	92		
Status	Vulnerable		
Conservation Significance	Very High		
Invasive weed species			
Notes	High quality aquatic vegetation around perimeter of reservoir		
EVC 5	Submerged Aquatic Herbland 918		
Habitat Score	not scored		
Status	Rare (not listed for the bioregion)		
Conservation Significance	Very High		
Invasive weed species			
Notes	Submerged vegetation was not assessed however is described in Ecological Horticulture (1992). Extent is not known (mapped area is estimate only).		

SITE 2 **NAME** **Paratea Reserve, Frankston South**

Site Significance Very High

Area (Ha) 8.03

Tenure Public

Biosites Regional (#5105)

Site notes Relatively intact. Relatively low cover of weeds, weedier in the south-west corner, more degraded along edges, especially on north and west borders. Some tree death. From previous studies 131 native species have been recorded including orchids and Snow Gums.

Access problems No

EVC 1 **Grassy Woodland 175**

Habitat Score 56 - 73

Status Endangered

Conservation Significance Very High

Invasive weed species Sweet Vernal-grass, Brome, Wood Sorrel, Coast Wattle, Asparagus Fern

Notes Most of the EVC is of the higher Condition Score with isolated patches of greater weed invasion. High diversity of species

SITE	3	NAME	Baxter Park, Frankston South
Site Significance	Very High		
Area (Ha)	23.23		
Tenure	Public		
Biosites	None		
Site notes	Vegetation quality varies greatly. Coast Wattle and Sweet Pittosporum are the most serious weeds. Dieback is also a problem.		
Access problems	No		

EVC 1	Grassy Woodland 175
Habitat Score	38 - 57
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Sweet Pittosporum, Coast Wattle, Ivy, Agapanthus, Pampas Grass, Gorse, Boneseed, Pine, Blackberry, Yorkshire Fog, Ribwort
Notes	Has affinities with Valley Heathy Forest. Some areas are heavily infested with weeds and dieback is extensive.
EVC 2	Damp Sands Herb-rich Woodland 3
Habitat Score	43 - 61
Status	Vulnerable
Conservation Significance	High - Very High
Invasive weed species	Coast Wattle, Blackberry, Sweet Pittosporum, Brown-top Bent, and Panic Veldt-grass.
Notes	Some areas are in good condition, but species diversity is not high. Presence of Damp Sands Herb-rich Woodland (J. Yugovic pers. comm.).

SITE 5 NAME Sweetwater Creek & tributaries, Baden Powell Reserve

Site Significance	High
Area (Ha)	16.97
Tenure	Both
Biosites	None
Site notes	Small remnants being augmented through weed control and replanting, eg. Baden Powell Reserve.
Access problems	Yes

EVC 1 Swampy Riparian Woodland 83

Habitat Score	22 - 24
Status	Endangered
Conservation Significance	High
Invasive weed species	Willows, White Arum-lily, Broom, Wandering Jew, Coast Wattle, Pittosporum, Boneseed, Coast Tea-tree, Blackberry, Ivy, Cootamundra Wattle, Asparagus Fern, Bridal Creeper, Tobacco Nightshade, Agapanthus
Notes	Generally few remnants and often dominated by Bracken. Deteriorates upstream to south-east.

EVC 2 Heathy Woodland 48

Habitat Score	55 - 65
Status	Depleted
Conservation Significance	Medium - High
Invasive weed species	Coast Tea-tree, Myrtle-leaf Milkwort, Pittosporum
Notes	Grades into Swampy Riparian Woodland. Highest quality at western end of Marcus Rd.

SITE	6	NAME	Sweetwater Creek Reserve, Frankston South
Site Significance	Very High		
Area (Ha)	13.24		
Tenure	Public		
Biosites	Regional (5152)		
Site notes	Difficult to map as EVCs merge into one another, particularly along creek. Remnants variable with small high quality patches, particularly in Nature Reserve. Huge weed problems particularly on lower slopes and riparian zone.		
Access problems	No		
EVC 1	Swampy Riparian Woodland 83		
Habitat Score	22 - 31		
Status	Endangered		
Conservation Significance	High		
Invasive weed species	Coast Tea-tree, Coast Wattle, White Arum-lily, Sweet Pittosporum, Cape Ivy, Boneseed, Ivy, Bridal Creeper, Blackberry, Jew, Mirror-bush		
Notes	Some better remnants near eastern end. Grades into Shrubby Gully Forest and Heathy Woodland. Revegetation works in past may have altered distribution of EVCs.		
EVC 2	Shrubby Gully Forest 938		
Habitat Score	22		
Status	Vulnerable		
Conservation Significance	Medium		
Invasive weed species	Angled Onion, Cape Ivy, White Arum-lily, Bridal Creeper, Willow, Pampas Grass, Tree Lucerne, Blackberry, Mirror-bush ...		
Notes	Good level of water flowing - quite eutrophic. Tree plantings.		
EVC 3	Heathy Woodland 48		
Habitat Score	29 - 52		
Status	Depleted		
Conservation Significance	Medium		
Invasive weed species	Coast Wattle, Asparagus, Wild Tobacco Tree, Cherry Plum, Boneseed, Ivy, Nasturtium, Blue Periwinkle ...		
Notes			
EVC 4	Grassy Woodland 175		
Habitat Score	33 - 44		
Status	Endangered		
Conservation Significance	High - Very High		
Invasive weed species	Coast Tea-tree, Coast Wattle		
Notes	On granite outcrops - extent of EVC unclear - merges into Heathy Woodland		

SITE	11	NAME	Robinsons Park, Wittenberg Reserve,
Site Significance			Very High
Area (Ha)			9.11
Tenure			Public
Biosites			None
Site notes			Small to large remnants in moderately good condition. Weed control is required, especially for Coast Wattle.
Access problems			No

EVC 1	Grassy Woodland 175
Habitat Score	41 - 49
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Sweet Vernal-grass, Coast Wattle, Boneseed, Panic Veldt-grass, Capeweed, Cocksfoot.
Notes	Located within Wittenberg Reserve, this vegetation supports a high cover of exotic grasses, especially on the edges. The shrub layer is sparse and recruitment of woody species almost absent.

EVC 2	Valley Heathy Forest 127
Habitat Score	39 - 60
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Coast Wattle, Cape Weed, Sweet Vernal-grass, Blackberry, and Onion Grass
Notes	This remnant vegetation consists as a narrow linear patch along Robinsons Road. The remainder of the area in the south consists of scattered trees.

SITE	12	NAME	McClelland Dr, Railway & Freeway Reserve
Site Significance	Very High		
Area (Ha)	14.15		
Tenure	Public		
Biosites	State (#4917)		
Site notes	The vegetation on the western side of the railway supports the best quality vegetation for this site. Species diversity is quite high and overall the vegetation is in good condition.		
Access problems	No		
EVC 1	Heathy Woodland 48		
Habitat Score	44 - 59		
Status	Depleted		
Conservation Significance	Medium - High		
Invasive weed species	Sweet Pittosporum, Coast Wattle, Coast Tea-tree, Blackberry, Bulbil Watsonia.		
Notes	Some areas are in relatively good condition.		
EVC 2	Valley Heathy Forest 127		
Habitat Score	40 - 56		
Status	Endangered		
Conservation Significance	Very High		
Invasive weed species	Coast Wattle, Sweet Pittosporum, Bulbil Watsonia, Blackberry, Panic Veldt-grass, Pine, Boneseed, Cootamundra Wattle and Bluebell Creeper.		
Notes	Located on both sides of the railway this vegetation grades into Heathy Woodland and is in relatively good condition.		

SITE	13	NAME	Frankston Golf Club
Site Significance	Medium		
Area (Ha)	15.36		
Tenure	Public		
Biosites	None		
Site notes	Highly modified and fragmented vegetation with the canopy (where present) mainly dominated by exotic species.		
Access problems	No		
EVC 1	Heathy Woodland 48		
Habitat Score	24-50		
Status	Depleted		
Conservation Significance	Low - Medium		
Invasive weed species	Coast Tea-tree, Coast Wattle, Sweet Pittosporum, Cedar Wattle, Mirror Bush, Bluebell Creeper, Panic Veldt-grass		
Notes			
EVC 2	Damp Heathy Woodland 793		
Habitat Score	29		
Status	Vulnerable		
Conservation Significance	Medium		
Invasive weed species	Coast Wattle, Bluebell Creeper, Sweet Pittosporum		
Notes	This EVC is confined to the east of the site and is highly degraded. Mostly dominated by non-indigenous woody species. Thatch Saw-sedge prominent in the better areas.		

SITE	14	NAME	Luke Court, Frankston South
Site Significance	Very High		
Area (Ha)	2.18		
Tenure	Both		
Biosites	None		
Site notes	Mainly highly weed-invaded, poor-quality Damp Heathy Woodland but narrow band of Grassy Woodland in south retains moderate diversity – giving the site an elevated conservation significance. Presence of red-flowered form of <i>Correa reflexa</i> L. Costermans pers. comm.).		
Access problems	No		

EVC 1	Damp Heathy Woodland 793
Habitat Score	24
Status	Vulnerable
Conservation Significance	Medium
Invasive weed species	Coast Tea-tree, Sweet Pittosporum, Coast Wattle, Boneseed, Pines, Blackberry, Pampas Grass
Notes	Highly modified. Dominated by Coast Tea-tree.

EVC 2	Grassy Woodland 175
Habitat Score	42
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Coast Wattle, Bluebell Creeper, Cedar Wattle, Gorse
Notes	This EVC occupies a narrow strip adjacent to the high school, meeting Robinsons Rd. Although very small in size a good diversity of life-forms and species persists.

SITE	15	NAME	Wallace Av. Reserve, Frankston
Site Significance	High		
Area (Ha)	0.11		
Tenure	Public		
Biosites	None		
Site notes	<p>The majority of this site consists of scattered trees (<i>Eucalyptus ovata</i> in the drainage line and <i>E. radiata</i> on the drier areas. Invaded by some very serious weeds (e.g. Coast Tea-tree, Cotoneaster, Montpellier Broom, Cape Ivy, Panic Veldt-grass, Pine, Coast Wattle, Sweet Pittosporum, Wandering Jew, Asparagus Fern and Spanish Heath). Site significance elevated due to Grassy Woodland remnant.</p>		
Access problems	No		

EVC 1	Grassy Woodland 175
Habitat Score	35
Status	Endangered
Conservation Significance	High
Invasive weed species	Sour-sob, Annual Veldt-grass and
Notes	This is a very small remnant that has been fenced off from the rest of Wallace Reserve and well managed.

SITE	16	NAME	Bunarong Park, Frankston
Site Significance	Very High		
Area (Ha)	7.76		
Tenure	Public		
Biosites	Regional (#5150)		
Site notes	Important remnants of Sand Heathland and Heathy Woodland. Dumping of garden rubbish and spread of weeds requires management. Some sections could benefit from ecological burns.		
Access problems	No		

EVC 1	Heathy Woodland 48
Habitat Score	34 - 60
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Wattle, Asparagus Fern, Coast Tea-tree, Boneseed, Bluebell Creeper, Sweet Pittosporum, Cape Ivy, Jew
Notes	Large section very modified with Coast Tea-tree forming tall shrubland. Merges into Sand Heathland.

EVC 2	Sand Heathland 6
Habitat Score	61 - 67
Status	Rare
Conservation Significance	Very High
Invasive weed species	Coast Wattle
Notes	Mostly high quality remnants - more disturbed on perimeter. Assessed as treeless vegetation, although scattered eucalypts present

EVC 3	Damp Heathy Woodland 793
Habitat Score	57
Status	Vulnerable
Conservation Significance	Very High
Invasive weed species	Coast Wattle
Notes	Dominates southern quarter; reasonably good quality

SITE 17 NAME Willow Road Reserve, Frankston
Site Significance Very High

Area (Ha) 15.23

Tenure Public

Biosites None

Site notes Mostly Heathy Woodland, with two wetlands in major swales. Wetland vegetation is in relatively good condition. Regionally significant orchid *Spiranthes australis* present in road reserve and in Sedge Wetland (L. Costermans pers. comm.). Southern section of Heathy Woodland is very degraded and dominated by Coast Tea-tree. Southern section of Heathy Woodland is very degraded. Site used by walkers and cyclists (several tracks).

Access problems No

EVC 1 Heathy Woodland 48
Habitat Score 23-60

Status Depleted

Conservation Significance Low - Medium

Invasive weed species Coast Tea-tree, Coast Wattle, Pines, Cats Ear, Boneseed, Sweet Pittosporum, Blackberry

Notes Canopy intact and large trees present across most of the site (except southern section) but understorey with generally low diversity, dominated by Bracken. The southern-most patch is highly degraded and is dominated by Coast Tea-tree. Within this mapping unit there is also Damp Sands Herb-rich Woodland (J. Yugovic pers. comm.).

EVC 2 Aquatic Sedgeland 308
Habitat Score 77-97

Status Vulnerable

Conservation Significance Very High

Invasive weed species Arum Lily, Blackberry, Drain Flat-sedge

Notes Good cover of aquatic vegetation. Some weedy sections around wetland edges. The EVCs 'Aquatic Herbland' (653) and 'Tall Marsh' (821) also present as part of the wetland complex (J. Yugovic pers. comm.).

SITE 18 NAME North Road (60 Cranbourne Rd), Langwarrin

Site Significance	High
Area (Ha)	5.23
Tenure	Private
Biosites	None
Site notes	Understorey highly degraded. Site used for cattle grazing.
Access problems	some.

EVC 1 Heathy Woodland 48

Habitat Score	39
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Sweet Vernal Grass, Blackberry, Grey Coast (Willow)
Notes	Land used for pasture but has remnant trees and some indigenous species persist in understorey

EVC 2 Swamp Scrub 53

Habitat Score	36
Status	Endangered
Conservation Significance	High
Invasive weed species	Coast Wattle, Watsonia, Sweet Pittosporum, Mahogany Gum
Notes	Degraded vegetation with high cover of woody weeds but good recruitment of indigenous shrubs where cattle have been excluded

SITE	19	NAME	Acacia Heath, North Road, Langwarrin
Site Significance			Medium
Area (Ha)			2.28
Tenure			Both
Biosites			None
Site notes			Southern and western areas highly modified. Central section still largely intact despite Coast Tea-tree invasion.
Access problems			No

EVC 1	Heathy Woodland 48
Habitat Score	31-57
Status	Depleted
Conservation Significance	Low - Medium
Invasive weed species	Coast Tea-tree, Coast Wattle, Sweet Pittosporum, Pines, Greenbush
Notes	Some of the lower lying areas have elements of Damp Heathy Woodland and/or Riparian Scrub. Southern area near Sugarglider Close is dominated by woody weeds (Greenbush and Pines).

SITE	20	NAME	Acacia Heath, Langwarrin
Site Significance			Very High
Area (Ha)			1.53
Tenure			Public
Biosites			None
Site notes			Small wetland with good cover of aquatic vegetation but little indigenous terrestrial vegetation surrounding it.
Access problems			No

EVC 1	Aquatic Sedgeland 308
Habitat Score	88
Status	Vulnerable
Conservation Significance	Very High
Invasive weed species	Jointed Rush, Blackberry, Coast Wattle
Notes	Small wetland surrounded by housing estate. Good cover of aquatic vegetation.

EVC 2	Heathy Woodland 48
Habitat Score	25
Status	Depleted
Conservation Significance	Low
Invasive weed species	Coast Tea-tree, Coast Wattle
Notes	Small degraded remnant east of wetland – dominated by invasive shrubs.

SITE	21	NAME	60 North Road, Langwarrin
Site Significance			Medium
Area (Ha)			1.54
Tenure			Private
Biosites			None
Site notes			Remnant vegetation with modified understorey due to weed invasion. Long absence of fire? Wetland adjacent to patch should probably be included.
Access problems			No

EVC 1	Heathy Woodland 48
Habitat Score	46-51
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Wattle, Sweet Vernal-grass, Pines, Red-ink Weed, Sweet Pittosporum, Cedar Wattle, Coast Tea-tree, Agapanthus, Watsonia
Notes	Understorey modified by Sallow Wattle invasion and exotic grasses.

SITE	22	NAME	Langwarrin Flora & Fauna Reserve
Site Significance	Very High		
Area (Ha)	155.09		
Tenure	Public		
Biosites	State (#5094)		
Site notes	Large intact area of remnant vegetation. Previously cleared area in south-west is regenerating to native vegetation. Some areas have been affected by woody weed invasion (management in progress at time of field visit) and/or others by Cinnamon Fungus (dieback). All EVCs were not surveyed but their presence was determined likely from desktop review (DSE modelling and report by D. Cheal (1984)). Complex vegetation mosaic across site has been highly simplified for mapping purposes. Also includes Riparian Scrub, Grassy Woodland, Damp Heathland and Sedgy Swampy Woodland EVCs (J. Yugovic pers. comm. Also present is Sedgy Swamp Woodland EVC (J. Yugovic pers. comm.).		
Significant species	From L. Costermans (pers. comm.): v L <i>Diuris punctata</i> var. <i>punctata</i> Purple Diuris k <i>Corunastylis ciliata</i> Sharp Midge-orchid k <i>Pterostylis tasmanica</i> Bearded Greenhood (k) <i>Caladenia dilatata</i> Green-comb Spider-Orchid (may be <i>C. ?phaeoclavia</i> – no VROT status)		
Access problems	some restricted areas		

EVC 1 Damp Heathy Woodland 793

Habitat Score	27-81
Status	Vulnerable
Conservation Significance	Medium - Very High
Invasive weed species	Coast Wattle, Blackberry, Yorkshire Fog
Notes	Ranges from high quality remnant native vegetation to previously cleared areas that have been recolonised in the past decade (in the south west).

EVC 2 Sand Heathland 6

Habitat Score	62-85
Status	Rare
Conservation Significance	High - Very High
Invasive weed species	Coast Wattle, Coast Tea-tree
Notes	High quality remnants with minimal cover of weeds. Confined to deep sands on dune ridges, grades into Heathy Woodland on slopes.

EVC 3 Riparian Scrub 191

Status	Vulnerable
Conservation Significance	Very High

EVC 4 Grassy Woodland 175

Status	Endangered
Conservation Significance	High – Very High

EVC 5 Damp Heathland 710

Status	Rare
Conservation Significance	Very High

EVC 6 Heathy Woodland 48

Status	Depleted
Conservation Significance	High - Very High

SITE	23	NAME	Wattlebird Cres., Langwarrin
Site Significance	Very High		
Area (Ha)	6.71		
Tenure	Private		
Biosites	State (#5094)		
Site notes	Intact vegetation which is contiguous with the Langwarrin Flora and Fauna Reserve. Residential developments have already encroached on the western patch boundary and construction is in progress immediately to the north.		

EVC 1	Sand Heathland 6
Habitat Score	54-73
Status	Rare
Conservation Significance	High - Very High
Invasive weed species	Coast Wattle, Coast Tea-tree, Pines
Notes	Intact heath on dune ridge. Contiguous with Langwarrin Flora and Fauna Reserve.

EVC 2	Heathy Woodland 48
Habitat Score	61
Status	Depleted
Conservation Significance	High
Invasive weed species	Coast Wattle, Pines, Coast Tea-tree, Sweet Pittosporum
Notes	Confined to the lower slopes east and west of the high central dune ridge. Localised elements of Riparian Scrub (e.g. Scented Paperbark and Coral Fern).

SITE	24	NAME	Kananook Creek North, Rosella St - Eel Race Drain
Site Significance	Very High		
Area (Ha)	34.01		
Tenure	Public		
Biosites	Regional (#4653)		
Site notes	Patchy linear remnant. Swamp Scrub occurs as a thin strip along Kananook Creek and is mapped with Banksia Woodland as a complex. The understorey is very weed invaded, mainly by grassy weeds with some woody weeds. There are some large, old Banksias. Some revegetation work has been undertaken.		
Access problems	No		
EVC 1	Coast Banksia Woodland / Swamp Scrub Mosaic 904		
Habitat Score	Not determined		
Status			
Conservation Significance	Medium - Very High		
Invasive weed species			
Notes	Refer to EVCs 2 and 3		
EVC 2	Coast Banksia Woodland 2		
Habitat Score	36 - 56		
Status	Vulnerable		
Conservation Significance	Medium - Very High		
Invasive weed species	Angled Onion, Bridal Creeper, Myrtle-leaf Milkwort, Jew, Boneseed, Agapanthus, African Boxthorn, Pines		
Notes	Overall, very weedy in ground stratum		
EVC 3	Swamp Scrub 53		
Habitat Score	40 - 48		
Status	Endangered		
Conservation Significance	Very High		
Invasive weed species	Cape Ivy, Sweet Pittosporum, Mirror Bush		
Notes	Merges into Coast Banksia Woodland		

SITE	25	NAME	Seaford Foreshore Reserve
Site Significance			Very High
Area (Ha)			47.61
Tenure			Public
Biosites			Regional (#4653)
Site notes			Patchy linear remnant, high level of weed invasion in Coast Banksia Woodland.
Access problems			No

EVC 1	Coast Banksia Woodland 2
Habitat Score	28 - 54
Status	Vulnerable
Conservation Significance	Medium - Very High
Invasive weed species	Boxthorn, Bridal Creeper, Cape Ivy, Panic Veldt-grass, Angled Onion, Mirror Bush, Myrtle-leaf Milkwort
Notes	Merges into Coastal Dune Scrub / Dune Grassland Mosaic
EVC 2	Coastal Dune Scrub / Coastal Dune Grassland Mosaic 1
Habitat Score	43 - 46
Status	Endangered
Conservation Significance	Low
Invasive weed species	Gazania, African Boxthorn, Marram Grass
Notes	Fairly intact remnant. Some weed invasion and some erosion (c. 15 % cover of bare sand)

SITE	27	NAME	Kananook Creek Reserve, Frankston S.L.S.C.
Site Significance	High		
Area (Ha)	0.79		
Tenure	Public		
Biosites	None		
Site notes	Some good remnants on dunes subject to user-pressure and weed invasion but management current. Scattered trees only in cultivated park section. Site subject to detailed vegetation study (Wilson et al. 2005).		
Access problems	No		

EVC 1	Coastal Dune Scrub 160
Habitat Score	16 - 33
Status	Vulnerable
Conservation Significance	Medium - High
Invasive weed species	African Box-thorn, Mirror-bush, Bridal Creeper
Notes	Merges into Coast Banksia Woodland. Management of some areas includes weed control.

EVC 2	Coast Banksia Woodland 2
Habitat Score	20 - 41
Status	Vulnerable
Conservation Significance	Medium - High
Invasive weed species	Mirror-bush, African Box-thorn, Bridal Creeper, Gazania, Marram Grass
Notes	Patchy condition

EVC 3	Coastal Dune Grassland 879
Habitat Score	28 - 39
Status	Endangered
Conservation Significance	High
Invasive weed species	Marram-grass
Notes	Narrow strip with erosion from wind and user-pressure

SITE	28	NAME	Seaford Wetlands
Site Significance	Very High		
Area (Ha)	92.17		
Tenure	Public		
Biosites	National (#4657)		
Site notes	The detailed study of the vegetation of Seaford Wetlands by Damian Cook (TBLD and AE 2005) has been used to assess much of this site. We have updated EVCs, esp. Wetland Formations. Damp Sands Herb-rich Woodland is present on the north-western and eastern boundaries. Plains Grassy Woodland 55 is represented by tree-only remnants including large old trees. Swamp Scrub 53 was generally species-poor / of low quality. A small representation of Saline Aquatic Meadow 842 is also present.		
Access problems	No		
EVC 1	Tall Marsh 821		
Status	Endangered		
Conservation Significance	Very High		
EVC 2	Damp Sands Herb-rich Woodland 3		
Habitat Score	32		
Status	Vulnerable		
Conservation Significance	High		
Invasive weed species	Pines, Coast Wattle, Boxthorn, Mirror-bush, grassy weeds		
Notes	Small degraded remnant on eastern side of Wetlands Reserve		
EVC 3	Brackish Aquatic Herbland 537		
Habitat Score	Not determined		
Status	Vulnerable		
Conservation Significance	Very High		
EVC 4	Brackish Wetland 656		
Status	Rare		
Conservation Significance	Very High		
Invasive weed species	Sharp Rush		
EVC 5	Aquatic Herbland 653		
Status	Endangered		
Conservation Significance	Very High		
EVC 6	Plains Grassy Wetland125		
Habitat Score	42 - 54		
Status	Endangered		
Conservation Significance	Very High		
Invasive weed species	Couch, Sweet Vernal-grass, Yorkshire Fog, Brown-top Bent and Water Buttons.		
Notes	In relatively good condition. A high cover of exotic grasses in places. Invasive woody weeds (Gorse, Blackberry and Coast Wattle) outside the patch threaten this remnant.		

SITE	29	NAME	Motorcycle / BMX Club, Seaford
Site Significance	High		
Area (Ha)	3.38		
Tenure	Public		
Biosites	None		
Site notes	The remnant vegetation is fragmented and degraded due to the bike tracks. Much of the site supports scattered indigenous trees only.		
Access problems	Yes		
EVC 1	Heathy Woodland 48		
Habitat Score	31 - 35		
Status	Depleted		
Conservation Significance	Medium		
Invasive weed species	Coast Tea-tree, Bridal Creeper, Kikuyu and Japanese Honeysuckle		
Notes	Very degraded vegetation, with a high cover of weeds and understorey dominated by exotic grasses and bracken. Many large old trees present.		
EVC 2	Plains Grassy Woodland 55		
Habitat Score	21 - 26		
Status	Endangered		
Conservation Significance	High		
Invasive weed species	Blackberry, Pampas Grass, Asparagus Fern, Bridal Creeper, Panic Veldt-grass, and Canary Grass		
Notes	Also very degraded; species poor and high weed cover. The road reserve supports the higher quality vegetation.		

SITE 30 NAME Frankston Freeway, Seaford

Site Significance	Very High
Area (Ha)	9.57
Tenure	Public
Biosites	Regional (#5098)
Site notes	Overall high quality with disturbed margins
Access problems	No

EVC 1 Plains Grassy Woodland 55

Habitat Score	42 -51
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Boxthorn, Blackberry
Notes	Dominates north and east sections of Freeway Reserve. Some scattered Red Gums at southern end.

EVC 2 Heathy Woodland 48

Habitat Score	43 - 52
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Blackberry, Boneseed, Asparagus
Notes	Margins of remnants deteriorate towards road but mown patches are favouring indigenous ground stratum species

EVC 3 Swamp Scrub 53

Habitat Score	25
Status	Endangered
Conservation Significance	High
Invasive weed species	Asparagus, herbaceous species
Notes	Patchy, disturbed remnants, merges into Plains Grassy Woodland and Heathy Woodland

EVC 4 Plains Grassy Wetland 125

Habitat Score	-
Status	Endangered
Conservation Significance	High
Invasive weed species	
Notes	

SITE 31 NAME Belvedere Reserve, Seaford

Site Significance	High
Area (Ha)	2.25
Tenure	Public
Biosites	None
Site notes	A disturbed remnant that requires weed control. Some areas have been recently burnt.
Access problems	No

EVC 1 Heathy Woodland 48

Habitat Score	29 - 44
Status	Depleted
Conservation Significance	Low - Medium
Invasive weed species	Coast Tea-tree, Coast Wattle, Mirror Bush, Blackberry, Red-ink Weed, Rough Dog's-tail, and Bluebell Creeper.
Notes	Fragmented remnants due to tracks. Mostly degraded and supports a high cover of woody weeds.

EVC 2 Swamp Scrub 55

Habitat Score	36 - 43
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Blackberry, Coast Wattle, Paspalum and Panic Veldt-grass.
Notes	A thicket of Swamp Paperbark. Dry at the time of assessment. Species richness maybe higher during wetter months.

SITE	32	NAME	Belvedere Bushland Reserve / Freeway Reserve
Site Significance	Very High		
Area (Ha)	9.48		
Tenure	Public		
Biosites	None		
Site notes	Ranges greatly in quality. A large proportion of the site supports a very high cover of Coast Tea-tree which is being managed by FCC and Friends Groups (L. Costermans pers. comm.). Continuing management will help to restore condition.		
Access problems	No		
EVC 1		Heathy Woodland 48	
Habitat Score	36 - 57		
Status	Depleted		
Conservation Significance	Low - Medium		
Invasive weed species	Coast Tea-tree, Sweet Vernal-grass, Couch, Panic Veldt-grass, Onion Grass, Coast Wattle, and Sheep Sorrel		
Notes	Some areas are heavily infested with Coast Tea-tree and Coast Wattle. In better quality areas, species diversity is much higher and good recruitment is occurring in the understorey.		
EVC 2		Sand Heathland 6	
Habitat Score	23 - 66		
Status	Rare		
Conservation Significance	Medium -Very High		
Invasive weed species	Coast Tea-tree, Coast Wattle and Panic Veldt		
Notes	A large range in vegetation quality. The best patch is young and regenerating, species diversity is high and weed cover low. Other areas support a very high cover of Coast Tea-tree.		
EVC 3		Swampy Woodland 937	
Habitat Score	49 - 56		
Status	Endangered		
Conservation Significance	Very High		
Invasive weed species	Sweet Pittosporum, Coast Wattle, Coast Tea-tree, Blackberry, Bridal Creeper		
Notes	Moderate quality, but threatened by further weed invasion from adjoining Coast Tea-tree thickets.		

SITE 33 NAME Proposed Freeway Reserve, Fulmar St, Carrum Downs

Site Significance	Very High
Area (Ha)	8.56
Tenure	Public
Biosites	None
Site notes	Fragmented patches of low - moderate quality remnant vegetation. Control of woody weeds is required.
Access problems	No

EVC 1**Heathy Woodland 48**

Habitat Score	34 - 61
Status	Depleted
Conservation Significance	Low - Medium
Invasive weed species	Coast Tea-tree, Bridal Creeper, Sweet Pittosporum, Boneseed, Ragwort, Panic Veldt-grass, Pine, Montpellier Broom, Brown-top Bent and Kikuyu
Notes	The vegetation is dominated by Coast Tea-tree in the northern section, with one young patch showing good species diversity. Overall, vegetation condition is better in the south despite the numerous tracks that has fragmented the patch.

EVC 2**Swampy Woodland 937**

Habitat Score	43 - 52
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Blackberry, Boneseed, Bridal Creeper, Spear Thistle, Bluebell Creeper, and Cat's Ear.
Notes	A thicket of Swamp Paperbark, with Swamp Gum showing some dieback. Vegetation closest to Ballarto Rd is more disturbed.

SITE	34	NAME	G. K. Tucker Reserve, Carrum Downs
Site Significance	High		
Area (Ha)	1.60		
Tenure	Public		
Biosites	None		
Site notes	The majority of the site supports scattered indigenous (Coast Manna Gum, Narrow-leaf Peppermint and Red Gum) and planted trees and shrubs with the ground-layer dominated by exotic grasses. Site significance high due to the conservation status of Grassy Woodland.		
Access problems	No		

EVC 1	Grassy Woodland 175
Habitat Score	22 - 34
Status	Endangered
Conservation Significance	High
Invasive weed species	Blackberry, Boneseed, Coast Wattle, Cape Ivy, Sweet Pittosporum, Coast Tea-tree, Kikuyu, Spotted Gum, Cedar Wattle, Panic Veldt-grass and Annual Veldt-grass.
Notes	This vegetation only makes up a small proportion of the site. Weeds have reduced understorey diversity.

SITE	35	NAME	Carrum Downs Secondary College
Site Significance		Medium	
Area (Ha)		4.97	
Tenure		Private	
Biosites		None	
Site notes		A large area in the south has been cleared for school buildings. The remaining vegetation in the south-west is dominated by Bracken with one small area showing recruitment of other species. Northern remnant is patchy with species-rich remnants interspersed with heavily weed invaded areas.	
Access problems		No	

EVC 1	Heathy Woodland 48
Habitat Score	40 - 60
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Tea-tree, Coast Wattle, Tree Lucerne, Blackberry, Tree Lucerne, Montpellier Broom, Cootamundra Wattle, Montbretia, Red-ink Weed, Freesia, Yorkshire Fog, Panic Veldt-grass, Annual Veldt-grass.
Notes	

SITE	36	NAME	Taylor's Road, Skye
Site Significance	Low - medium		
Area (Ha)	3.57		
Tenure	Private		
Biosites	None		
Site notes	Two patches of Heathy Woodland of moderate quality - intermittently grazed; includes large old trees. Some weed control by owners. Merges into Swampy (Riparian) Woodland to south and tree-only remnants of Plains Grassy Woodland to west.		
Access problems	No		

EVC 1	Heathy Woodland 48
Habitat Score	27 - 37
Status	Depleted
Conservation Significance	Low - Medium
Invasive weed species	Coast Wattle, Red-Ink Weed, Willows, Blackberry, Pines, exotic grasses
Notes	

SITE	37	NAME	Long Island Country Club, Frankston
Site Significance			Medium
Area (Ha)			3.26
Tenure			Private
Biosites			None
Site notes			Most of the vegetation on this golf course is scattered trees with an exotic or weedy understorey (e.g. Coast Tea-tree). Small stands of remnant vegetation that persist suggest it was previously a mosaic of Heathy Woodland and Swampy Woodland.

EVC 1	Heathy Woodland 48
Habitat Score	31 - 35
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Tea-tree, Mirror Bush, Blackberry, Kikuyu Grass, Coast Wattle, Boneseed, Mahogany Gum
Notes	Heavily modified by weed invasion. Small area where woody weeds have been controlled shows good recruitment of understorey species.

SITE	38	NAME	Peninsula Country Golf Club, Frankston
Site Significance	Very High		
Area (Ha)	32.13		
Tenure	Private		
Biosites	None		
Site notes	Highly fragmented Heathy Woodland across most of site with small localised patches of other EVCs. Best vegetation is in the north-east corner, abutting The Pines Flora and Fauna Reserve (Sand Heathland and Heathy Woodland).		
EVC 1	Heathy Woodland 48		
Habitat Score	28 - 45		
Status	Depleted		
Conservation Significance	Low - Medium		
Invasive weed species	Coast Tea-tree, Sweet Vernal Grass, Coast Wattle, Cotoneaster, Asparagus Fern, Sweet Pittosporum, Wandering Jew, Cedar Wattle, Arum Lily, Spanish Heath, Tree Heath, Blackberry		
Notes	Most vegetation remnants at this site belong to this EVC but quality is variable (generally moderate to poor) due to weed invasion and fragmentation.		
EVC 2	Swampy Woodland 937		
Habitat Score	65		
Status	Endangered		
Conservation Significance	Very High		
Invasive weed species	Blackberry, Coast Wattle, Tree Heath		
Notes	Small remnant in drainage depression, grades into Heathy Woodland		
EVC 3	Riparian Scrub 191		
Habitat Score	24		
Status	Vulnerable		
Conservation Significance	Medium		
Invasive weed species	Sweet Pittosporum, Mirror Bush, Cedar Wattle, Coast Wattle, Blackberry		
Notes	Occupies a swale in the north east of the site. The dense Scented Paperbark is in very poor heath (canopy mostly dead) possibly due to changed hydrological conditions. Woody weeds recruiting.		
EVC 4	Sand Heathland 6		
Habitat Score	68		
Status	Rare		
Conservation Significance	Very High		
Invasive weed species	Pines, Coast Wattle, Coast Tea-tree		
Notes	Restricted to high dune in the north-east of site, contiguous with The Pines Flora and Fauna Reserve.		
EVC 5	Damp Heathy Woodland 793		
Habitat Score	24		
Status	Vulnerable		
Conservation Significance	Medium		
Invasive weed species	Sallow Wattle, Kikuyu, Cape Ivy, Blackberry, Rambling Dock, Red-ink Weed		
Notes	Highly modified by invasion of woody weeds and dieback of eucalypts. Patches of Swamp Paperbark suggest this EVC existed in a mosaic with Swamp Scrub.		

SITE	39	NAME	The Pines Flora and Fauna Reserve, Frankston North
Site Significance	Very High		
Area (Ha)	113.29		
Tenure	Public		
Biosites	State (# 4916)		
Site notes	<p>Large site with important remnants of at least six EVCs (not all sampled).</p> <p>Strong links to remnants to north and east - could be improved - See also Sites 40 and 41.</p> <p>Records of regionally significant <i>Leporella fimbriata</i> (L. Costermans pers. comm.)</p> <p>History of disturbance but current management includes weed control – necessary to maintain very high conservation values.</p>		
Access problems	No		

EVC 1	Sand Heathland 6
Habitat Score	68 - 72
Status	Rare
Conservation Significance	Very High
Invasive weed species	Pines, Coast Wattle
Notes	High quality remnants, some regenerating from ecological burns, weed control continuing. Very few weeds throughout. Scattered, emergent Coast Manna Gum.
EVC 2	Swampy Riparian Woodland 83
Habitat Score	41 - 53
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Coast Wattle, Boneseed
Notes	Regenerating well after fire, some old trees
EVC 3	Riparian Scrub 191
Status	Vulnerable
Conservation Significance	High - Very High
EVC 4	Damp Heathy Woodland 793
Status	Vulnerable
Conservation Significance	High - Very High
EVC 5	Grassy Woodland 175
Status	Endangered
Conservation Significance	High - Very High

SITE	40	NAME	Addition to the Pines - Ballarto Rd, Frankston
Site Significance	High		
Area (Ha)	3.50		
Tenure	Public		
Biosites	State (# 4916)		
Site notes	Patchy, history of disturbance including surrounding orchard management		
Access problems	No		

EVC 1	Damp Heathy Woodland 793
Habitat Score	40 - 47
Status	Vulnerable
Conservation Significance	High
Invasive weed species	Blackberry, Pines
Notes	Blackberry covers large areas

SITE 41 NAME The Pines Flora & Fauna Reserve - Dara Land, Frankston

Site Significance	Very High
Area (Ha)	58.15
Tenure	Public
Biosites	None
Site notes	Overall, this site is in good condition. Control of woody weeds is required.
Access problems	No

EVC 1 Heathy Woodland 48

Habitat Score	54 - 77
Status	Depleted
Conservation Significance	Medium - High
Invasive weed species	Coast Wattle, Coast Tea-tree, Boneseed, Pine, Panic Veldt-grass, Sweet Vernal-grass, Cape Weed and Sheep Sorrel.
Notes	Overall the site supports good quality vegetation. As to be expected, the edges of the patch are more disturbed.

EVC 2 Sand Heathland 6

Habitat Score	52 - 58
Status	Rare
Conservation Significance	High
Invasive weed species	Coast Tea-tree
Notes	Located on dune tops in the north of the site; the majority of this area has been recently burnt. Species richness is not high, but weed cover is low.

EVC 3 Swampy Riparian Woodland 83

Habitat Score	46 - 58
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Boneseed, White Arum-lily, Zantedeschia, Coast Wattle, Pines, Bridal Creeper
Notes	Some reasonable areas; large old trees relatively common

EVC 4 Damp Heathy Woodland 793

Habitat Score	55
Status	Vulnerable
Conservation Significance	Very High
Invasive weed species	Blackberry, Boneseed, Coast Wattle, Bridal Creeper, Pines
Notes	Merges into Swampy Woodland

SITE 42 NAME McClelland Dr / Boggy Creek, Langwarrin

Site Significance	High
Area (Ha)	27.09
Tenure	Private
Biosites	None
Site notes	Some good remnants of Heathy Woodland along Valley Road, limited access.
Access problems	No

EVC 1 Swampy Woodland 937

Habitat Score	27
Status	Endangered
Conservation Significance	High
Invasive weed species	Boneseed, Pines, Coast Wattle, Blackberry, Sweet Pittosporum
Notes	Severely disturbed remnant on Boggy Creek; understorey cleared in past now dominated by exotic species.

EVC 2 Heathy Woodland 48

Habitat Score	36 - 53
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Wattle, Coast Tea-tree, Blackberry, Pampas Grass, exotic grasses (esp. Sweet Vernal-grass and Fog-grass)
Notes	Good examples along Valley Road

SITE	43	NAME	Freeway Reserve, north of Skye Rd, Frankston
Site Significance	Low - Medium		
Area (Ha)	1.42		
Tenure	Public		
Biosites	None		
Site notes	Main values in tree canopy (including large old trees); understorey very degraded. Trees also dead or dying in some areas.		

EVC 1	Heathy Woodland 48
Habitat Score	24 - 36
Status	Depleted
Conservation Significance	Low - Medium
Invasive weed species	Panic Veldt-grass, Coast Wattle, Wandering Jew, Cape Ivy, Morning Glory, Pines, Willows, Blackberry
Notes	Understorey dominated by weeds and bracken.

SITE	44	NAME	Freeway Reserve & adjacent land, south of Skye Rd, Frankston
Site Significance	High - Very High		
Area (Ha)	8.59		
Tenure	Public		
Biosites	None		
Site notes	Condition of native vegetation throughout site is poor with some areas (e.g. patches to the south) now only scattered trees. The high conservation status of the EVCs represented gives the site an elevated conservation significance.		
Access problems	No		
EVC 1	Heathy Woodland 48		
Habitat Score	40 - 49		
Status	Depleted		
Conservation Significance	Medium		
Invasive weed species	Blackberry, Morning Glory, Bridal creeper, Wandering Jew, Boneseed, Sallow Wattle, Sweet Pittosporum, Pines		
Notes	Degraded Heathy Woodland, good tree layer, poor diversity in the understorey.		
EVC 2	Damp Heathy Woodland 793		
Habitat Score	24 - 43		
Status	Vulnerable		
Conservation Significance	Medium - High		
Invasive weed species	Blackberry, Coast Wattle, Boneseed, Sweet Pittosporum, Coast Tea-tree		
Notes	Understorey dominated by Bracken. Some areas severely weed infested with native canopy trees in very poor heath.		
EVC 3	Swamp Scrub 53		
Habitat Score	24 - 31		
Status	Endangered		
Conservation Significance	High		
Invasive weed species	Boneseed, Blackberry, Bridal Creeper, Tree Lucerne, Pampas Grass, Cabbage Tree, Grey Sallow, Spike Rush, Sweet Pittosporum		
Notes	Degraded, low species diversity, occasional emergent Swamp Gums, some canopy death associated with Swamp Paperbark, quite wet at time of survey		
EVC 4	Swampy Woodland 937		
Habitat Score	24 - 47		
Status	Endangered		
Conservation Significance	High - Very High		
Invasive weed species	Blackberry, Sweet Pittosporum, Cotoneaster, Coast Wattle, Pines, Spanish Heath, Boneseed, Sweet Briar, Sweet Vernal Grass		
Notes	Scattered Swamp Gum with mix of indigenous and weedy understorey. Very localised patches of Swamp Scrub present within this EVC.		

SITE	45	NAME	McClelland Drive, Pioneer Quarry, Tamarisk Wetland Langwarrin
Site Significance	Very High		
Area (Ha)	23.04		
Tenure	Private		
Biosites	None		
Site notes	Very patchy vegetation quality with large expanses of the site being primarily exotic vegetation (indicative of past vegetation removal). Serious weed invasions. Vegetation of highest significance is the Riparian Scrub and Wetland complex associated with the drainage line in the east.		
Access problems	Yes. Large site with few access points or tracks.		
EVC 1		Heathy Woodland 48	
Habitat Score	29 - 55		
Status	Depleted		
Conservation Significance	Low - Medium		
Invasive weed species	Coast Wattle, Coast Tea-tree, Agapanthus, Sweet Pittosporum, Pines, Boneseed, Spanish Heath, Blackberry, Bluebell Creeper, Cootamundra Wattle		
Notes	Patchy quality - generally very poor. Tree layer missing in some places. Very high cover of woody weeds. Some localised depressions support degraded swampy vegetation but these areas are too modified to be mapped as native vegetation.		
EVC 2		Sand Heathland 6	
Habitat Score	63		
Status	Rare		
Conservation Significance	Very High		
Invasive weed species	Coast Wattle, Pines, Coast Tea-tree		
Notes	Restricted to dune slopes (NE aspect), this area of Heathland retains a high indigenous species diversity. Density of recruiting Coast Manna Gum suggests return to Heathy Woodland (i.e. Heathland structure may be the result of past clearing)		
EVC 3		Riparian Scrub 191	
Habitat Score	43-62		
Status	Vulnerable		
Conservation Significance	High -Very High		
Invasive weed species	Pampas Grass, Blackberry, Drain Sedge, Grey Sallow		
Notes	Substantially intact patch, with very dense canopy of Scented Paperbark in north-west of site, following drainage line. The waterbodies south of this patch appear to be derived from this EVC (dead paperbarks throughout permanently inundated section).		

SITE	47	NAME	DPI - Frankston North
Site Significance	Very High		
Area (Ha)	5.33		
Tenure	Public		
Biosites	None		
Site notes	Much of site regenerating from history of agricultural research. A range of EVCs supported in relatively good condition. Artificial wetland vegetation not sampled.		
Access problems	No		
EVC 1	Sand Heathland 6		
Habitat Score	57		
Status	Rare		
Conservation Significance	High		
Invasive weed species	Coast Tea-tree and Coast Wattle		
Notes	Recently burnt and showing strong recruitment of woody weeds.		
EVC 2	Swamp Scrub 53		
Habitat Score	60 - 65		
Status	Endangered		
Conservation Significance	Very High		
Invasive weed species	Coast Wattle and Blackberry		
Notes	Good quality vegetation		
EVC 3	Damp Sands Herb-rich Woodland 3		
Habitat Score	43 - 51		
Status	Rare		
Conservation Significance	High		
Invasive weed species	Coast Wattle, Bridal Creeper, Ivy		
Notes	Occupies small 'reserve' in north-east of site		
EVC 4	Damp Heathy Woodland 793		
Habitat Score	33		
Status	Vulnerable		
Conservation Significance	High		
EVC 5	Swampy Woodland 937		
Habitat Score	40 - 60		
Status	Endangered		
Conservation Significance	Very High		
Invasive weed species	Coast Wattle, Boneseed, Sweet Vernal-grass, Panic Veldt-grass, Toowoomba Canary-grass, and other grassy weeds		
Notes	A small linear patch running parallel to Ballarto Road; includes large old trees. Quality varies substantially.		
EVC 6	Damp Heathland 710		
Habitat Score	34		
Status	Rare		
Conservation Significance	High		

SITE	48	NAME	Little Boggy Creek Reserve, Stevens Rd Reserve, Lexton Drive, Langwarrin
Site Significance		Very High	
Area (Ha)		8.78	
Tenure		Public	
Biosites		None	
Site notes		This site supports a range of EVCs of variable, but overall good, condition. Dieback is evident and weed control is required. Previously included quarry site - deterred by owner from visiting since 'all vegetation approved for removal'.	
Access problems		No	
EVC 1		Swampy Riparian Woodland 83	
Habitat Score		39 - 54	
Status		Endangered	
Conservation Significance		High - Very High	
Invasive weed species		Blackberry, Mirror Bush, Wandering Jew, Sweet Pittosporum, Spanish Heath, Boneseed, Bluebell Creeper, Sweet Vernal-grass	
Notes		Associated with Boggy Creek, in relatively good condition, but dieback is evident and weeds require control.	
EVC 2		Damp Heathy Woodland 793	
Habitat Score		36 - 58	
Status		Vulnerable	
Conservation Significance		High - Very High	
Invasive weed species		Bluebell Creeper, Coast Wattle, Boneseed, Blackberry, Sweet Pittosporum and Sweet Vernal-grass	
Notes		Merges into Heathy Woodland upslope Bluebell Creeper particularly high cover on creek	
EVC 3		Swamp Scrub 53	
Habitat Score		41	
Status		Endangered	
Conservation Significance		Very High	
Invasive weed species		White Arum-lily, Bluebell Creeper, Panic Veldt-grass, Sweet Pittosporum and Blackberry.	
Notes		Swamp Paperbark is dying and is now predominantly weeds, Common Reed and Cumbungi.	
EVC 4		Heathy Woodland 48	
Habitat Score		38 - 48	
Status		Depleted	
Conservation Significance		Medium	
Invasive weed species		Sweet Pittosporum, Cluster Pine, Boneseed, Montpellier Broom, Coast Wattle, Blackberry, Cotoneaster	
Notes		Fairly disturbed in past and current user pressure, path use, and garden refuse dumping.	

SITE	49	NAME	Boggy Creek, Quarry Rd, Appleberry Ave, Langwarrin
Site Significance	Very High		
Area (Ha)	24.87		
Tenure	Both?		
Biosites	None		
Site notes	Very patchy vegetation quality with large areas invaded by weeds; therefore delineation of EVCs is masked where understorey largely modified.		
Access problems	No		
EVC 1	Riparian Scrub 191		
Habitat Score	54 - 66		
Status	Vulnerable		
Conservation Significance	Very High		
Invasive weed species	Coast Wattle, Sweet Pittosporum, Blackberry, Boneseed, Pine, Gorse, Bluebell Creeper and Panic Veldt-grass		
Notes	Located on the east side of the creek, this thicket of Scented Paperbark merges into Heathy Woodland on the edge of the patch (which is too small to map).		
EVC 2	Swamp Scrub 53		
Habitat Score	38 - 51		
Status	Endangered		
Conservation Significance	High - Very High		
Invasive weed species	Blackberry, Coast Wattle, Cape Ivy, White Arum-lily, Pampas Grass, Three-cornered Garlic and Willow		
Notes	This EVC supports patches of Swamp Paperbark amongst large patches of Common Reed. Weed cover is high and many of the few Swamp Gums that are present are dead.		
EVC 3	Swampy Riparian Woodland 83		
Habitat Score	31 - 53		
Status	Endangered		
Conservation Significance	High - Very High		
Invasive weed species	Blackberry, Ivy, Sweet Pittosporum, Bluebell Creeper, Coast Wattle, Willow, Bridal Creeper, Pampas Grass, White Arum-lily, Jew, Angle Onion		
Notes	Areas of reasonable quality but large sections of degraded vegetation; merges into Heathy Woodland upslope but generally too small to map.		

SITE	50	NAME	Burdetts Quarry, Langwarrin
Site Significance	Very High		
Area (Ha)	74.60		
Tenure	Private		
Biosites	None		
Site notes	Access denied. Heathy Woodland apparently dominant EVC, with Swampy Riparian Woodland and Swamp Scrub (J. Yugovic pers. comm.); weeds include Sallow Wattle, Flax-leaf Broom, Coast Tea-tree.		
Access problems	Yes		

EVC 1	Heathy Woodland 48
Habitat Score	Not determined
Status	Depleted
Conservation Significance	Medium ?
Invasive weed species	
Notes	
EVC 1	Swampy Riparian Woodland 83
Habitat Score	Not determined
Status	Endangered
Conservation Significance	High ?
Invasive weed species	
Notes	
EVC 1	Swamp Scrub 53
Habitat Score	Not determined
Status	Endangered
Conservation Significance	High ?
Invasive weed species	
Notes	

SITE	51	NAME	Harold Road, Skye
Site Significance	Medium		
Area (Ha)	5.19		
Tenure	Private		
Biosites	None		
Site notes	History of disturbance, possibly grazed in past; large patches of Blackberry and grassy weeds. Heathy Woodland dominates but apparently more Swampy Woodland at eastern end (impenetrable Blackberry thickets).		
Access problems	No		

EVC 1	Heathy Woodland 48
Habitat Score	34 - 48
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Blackberry, Agapanthus, Cluster Pine, Ivy, grassy weeds
Notes	

SITE **52** **NAME** **Highview Road, Skye**

Site Significance High
Area (Ha) 11.59
Tenure Private
Biosites None
Site notes No access permitted
Access problems Yes

EVC 1 **? Damp Heathy Woodland 793**

Habitat Score ?45
Status Vulnerable
Conservation Significance High

Invasive weed species

Notes

EVC 2 **? Heathy Woodland 48**

Habitat Score ?45
Status Depleted
Conservation Significance Medium

Invasive weed species

Notes

EVC 3 **? Swamp Scrub 53**

Habitat Score ?30
Status Endangered
Conservation Significance ? High

Invasive weed species

Notes

SITE	53	NAME	1005 Dandenong-Hastings Road, Skye
Site Significance	Very High		
Area (Ha)	2.06		
Tenure	Private		
Biosites	None		
Site notes	High quality site but patches of highly invasive weeds including Blackberry and Pittosporum threaten existing values		
Access problems	No		

EVC 1	Riparian Scrub 191
Habitat Score	35 - 68
Status	Vulnerable
Conservation Significance	High - Very High
Invasive weed species	Blackberry, Ivy, Sweet Pittosporum, Coast Wattle, grassy weeds
Notes	May have been Swamp Woodland in past (old stumps); majority of EVC in good condition
EVC 2	Damp Sands Herb-rich Woodland 3
Habitat Score	46 - 58
Status	Vulnerable
Conservation Significance	High - Very High
Invasive weed species	Sweet Pittosporum, Blackberry
Notes	Majority of EVC in very good condition

SITE 54 NAME McKays Road, 1205 -1209 Dandenong - Hastings Rd, Langwarrin

Site Significance High

Area (Ha) 7.59

Tenure Private

Biosites None

Site notes Apparently some intact areas of Heathy Woodland / Damp Heathy Woodland / Swamp Scrub (possibly Swampy Woodland and/or Swampy Riparian Woodland. Sweet Pittosporum and Sallow Wattle (and a range of other weed species) are invading.

Access problems Yes

EVC 1 ? Heathy Woodland 48

Habitat Score ? 35

Status Depleted

Conservation Significance ?Medium

Invasive weed species Coast Wattle, Sweet Pittosporum, Pines, Bluebell Creeper, Red-Ink Weed, grassy weeds

Notes

EVC 2 ?Damp Heathy Woodland 793

Habitat Score ? 40

Status Vulnerable

Conservation Significance High

Invasive weed species

Notes

EVC 3 ?Swamp Scrub 53

Habitat Score ?50

Status Endangered

Conservation Significance ?High

Invasive weed species

Notes

SITE	55	NAME	120 McKays Rd, 1265, 1271 Dandenong-Hastings Rd, Langwarrin
Site Significance	Medium		
Area (Ha)	8.41		
Tenure	Private		
Biosites	None		
Site notes	No access but apparently overall reasonable quality		
Access problems	Yes		

EVC 1	Heathy Woodland 48
Habitat Score	34 - 46?
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Wattle, Sweet Pittosporum, Pines, Bluebell Creeper, grassy weeds
Notes	Extent not determined

SITE	56	NAME	Grassmere Road, Dandenong-Hastings Rd, Langwarrin
Site Significance			Very High
Area (Ha)			18.93
Tenure			Private
Biosites			None
Site notes			Most sites inaccessible; quality appears to vary but generally moderate to high quality remnants; presumed to be mostly Valley Heathy Forest. Remnants on small blocks when combined provide moderately high habitat values.
Access problems			Yes
EVC 1		Valley Heathy Forest 127	
Habitat Score			36 - 51
Status			Endangered
Conservation Significance			High - Very High
Invasive weed species			Coast Wattle, Sweet Pittosporum, Montpellier Broom, Bluebell Creeper, Cedar Wattle, Agapanthus, grassy weeds
Notes			Patchy, slashing; some dieback but most eucalypts still healthy

SITE	57	NAME	Kingston Road, Grassmere Rd, Langwarrin
Site Significance			Very High
Area (Ha)			23.86
Tenure			Private
Biosites			None
Site notes			Includes large, high quality remnants; apparently all Valley Heathy Forest. Weed management required throughout to protect values. Land-owners managing woody weed species achieve highest condition ratings. Moderate slashing regimes are also controlling weed invasion.
Access problems			Yes

EVC 1	Valley Heathy Forest 127
Habitat Score	46 - 63
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Bluebell Creeper, Sweet Pittosporum, Blackberry, Coast Wattle, Pines, Cootamundra Wattle, grassy weeds
Notes	

SITE	58	NAME	Kingston Road, Karen Close, Langwarrin
Site Significance	High		
Area (Ha)	5.08		
Tenure	Private		
Biosites	None		
Site notes	Slashing and mowing of most of blocks decreases biodiversity but controls weed spread.		
Access problems	Yes		

EVC 1	Valley Heathy Forest 127
Habitat Score	25 - 35
Status	Endangered
Conservation Significance	High
Invasive weed species	Coast Wattle, Sweet Pittosporum, grassy weeds, esp. Sweet Vernal-grass
Notes	

SITE	59	NAME	Monique Bushland Reserve, Langwarrin
Site Significance	Medium		
Area (Ha)	1.64		
Tenure	Public		
Biosites	None		
Site notes	Remnant, relatively intact (public park). Northern end is unfenced and mainly large trees with native understorey and mown grass		
Access problems	No		

EVC 1	Heathy Woodland 48
Habitat Score	43 - 57
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Sweet Vernal-grass, Coast Wattle, Cleavers, Rough Sow-thistle, Cape Weed, Great Brome
Notes	Some large trees, some understorey diversity, weed invasion fairly low

SITE	60	NAME	Union Road, Matthew Crt, Cranbourne - Frankston
		Site Significance	High
Area (Ha)			2.47
Tenure			Private
Biosites			None
Site notes			Very low quality, derived vegetation. Near Matthews Bridge the creek is dominated by Common Reed, Northern end invaded by Blackberry and surrounding vegetation is exotic grass; southern end is surrounded by residential blocks; creek is highly modified and invaded by Willow, Blackberry, Coast Wattle and garden escapees.
Access problems			No
EVC 1		Swampy Riparian Woodland 83	
Habitat Score			16
Status			Endangered
Conservation Significance			High
Invasive weed species			Willow, Sweet Pittosporum, J. Honeysuckle, Blackberry, Pines, Coast Wattle, Cootamundra Wattle, Watsonia, Gorse, Pampas Grass, Tree Lucerne, English Broom, Three-c Garlic, Desert Ash, Veldt-grass
Notes			Derived vegetation, highly disturbed and modified, 10% cover achieved by Common Reed

SITE	61	NAME	Aqueduct Reserve, Langwarrin
Site Significance			Low - Medium
Area (Ha)			2.34
Tenure			Public
Biosites			None
Site notes			Remnant of patchy quality. East side of patch far more degraded and weed invaded, canopy cover greatly reduced
Access problems			No

EVC 1	Heathy Woodland 48
Habitat Score	25 - 51
Status	Depleted
Conservation Significance	Low - Medium
Invasive weed species	Coast Wattle, Great Brome, Sweet Vernal-grass, Blackberry, Sweet Pittosporum, Pines, Tree Lucerne, Japanese Honeysuckle
Notes	Low-moderate species diversity, a few large trees, exotic grasses prevalent in the understorey.

SITE 62 NAME Langwarrin Pony Club

Site Significance	High
Area (Ha)	2.61
Tenure	Both
Biosites	None
Site notes	Degraded vegetation dissected by tracks.
Access problems	No

EVC 1 Heathy Woodland 48

Habitat Score	44 - 50
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Sweet Pittosporum, Blackberry, Coast Wattle, Coast Tea-tree, Pines, Panic Veldt-grass, Sweet Pittosporum.
Notes	Good tree cover but poor diversity in understorey (high cover of Bracken).

EVC 2 Swampy Riparian Woodland 83

Habitat Score	30
Status	Endangered
Conservation Significance	High
Invasive weed species	Blackberry, Sweet Pittosporum, Pines, Japanese Honeysuckle, English Ivy, Yorkshire Fog, Coast Wattle
Notes	Restricted to drainage line west of Pony Club. High cover of weeds.

SITE	63	NAME	385 -445 North Road, Langwarrin
Site Significance	High		
Area (Ha)	3.23		
Tenure	Private		
Biosites	None		
Site notes	This site predominantly supports scattered trees over a planted/exotic understorey. The significance of the site is elevated due to the conservation status of Grassy Woodland.		
Access problems	Yes		

EVC 1	Grassy Woodland 175
Habitat Score	22
Status	Endangered
Conservation Significance	High
Invasive weed species	Sweet Pittosporum, Pine, Montpellier Broom, Yorkshire Fog, Sweet Vernal-grass and Bluebell Creeper.
Notes	This patch has low species diversity (Bracken dominated in the understorey) and supports a high cover of weeds.

SITE 64 NAME 1395-1461 Dandenong-Hastings Rd, 1 - 31 Bellbird Crt, Langwarrin

Site Significance	Very High
Area (Ha)	21.87
Tenure	Private
Biosites	None
Site notes	Vegetation condition variable across site with varying regimes of slashing, stock access and weed control. Very high values in Valley Heathy Forest in roadside of Bellbird Court (south side).
Access problems	Yes

EVC 1 Valley Heathy Forest 127

Habitat Score	27 - 57
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Coast Wattle, Flax-leaf Broom, Cedar Wattle, Pines, grassy weeds
Notes	Varies from one property to the next with varying regimes of slashing, stock grazing and trampling, and weed control. Very high values in roadside of Bellbird Court (south side).

EVC 2 Swampy Woodland 937

Habitat Score	29 - 33
Status	Endangered
Conservation Significance	High
Invasive weed species	Blackberry, Cherry Plum, Pines, weedy grasses, esp. Sweet Vernal-grass
Notes	Not accurately sampled, probably merges into Valley Heathy Forest upslope.

SITE **65** **NAME** **1555-1575 Dandenong-Hastings Rd, Leisureland Dr, Langwarrin**

Site Significance Very High
Area (Ha) 10.72
Tenure Private
Biosites None
Site notes Variable quality. Parts of the patch are fragmented and degraded; the core area however is in good condition.
Access problems Yes

EVC 1 **Valley Heathy Forest 127**

Habitat Score 31 - 46
Status Endangered
Conservation Significance High - Very High
Invasive weed species Sweet Pittosporum, Blackberry, Coast Wattle, Flax-leaf Broom, Pine, Cotoneaster, English Ivy, Bluebell Creeper, Sweet Vernal-grass and Yorkshire Fog
Notes The road reserve supporting this vegetation is degraded and has a high cover of weeds. It has affinities with Swampy Woodland. On private property, vegetation of this EVC is in moderate condition.

EVC 2 **Grassy Woodland 175**

Habitat Score 42 - 50
Status Endangered
Conservation Significance Very High
Invasive weed species Sweet Pittosporum and Sweet Vernal-grass
Notes In good condition. Merges into Valley Heathy Forest to the east and Heathy Woodland to the west.

EVC 3 **Heathy Woodland 48**

Habitat Score 42 - 49
Status Depleted
Conservation Significance Medium
Invasive weed species Sweet Pittosporum and Sweet Vernal-grass
Notes This vegetation has been fragmented due to development, but in relatively good condition.

SITE	66	NAME	Centre Rd, Faith Crt, Langwarrin
Site Significance	Very High		
Area (Ha)	7.17		
Tenure	Private		
Biosites	None		
Site notes	This vegetation remnant spans numerous private properties and has been highly dissected by housing, especially in the south eastern section. The most intact remnants are in the larger holdings in the west.		
Access problems	Yes - couldn't get to area mapped as Heathy Woodland in the south-east		
EVC 1	Heathy Woodland 48		
Habitat Score	46-59		
Status	Depleted		
Conservation Significance	Medium		
Invasive weed species	Coast Wattle, Pines, Boneseed, Sweet Vernal, Blackberry, Bluebell Creeper, Coast Tea-tree		
Notes	Generally intact remnants, although fragmented, especially to the east of the site, due to subdivisions and building.		
EVC 2	Swampy Woodland 937		
Habitat Score	48		
Status	Endangered		
Conservation Significance	Very High		
Invasive weed species	Sweet Pittosporum, Coast Wattle, Blackberry, Boneseed		
Notes	This EVC is in a wide depression and has been substantially cleared for residential developments, leaving highly fragmented small patches.		
EVC 3	Valley Heathy Forest 127		
Habitat Score	58		
Status	Endangered		
Conservation Significance	Very High		
Invasive weed species	Sweet Pittosporum, Blackberry, Bluebell Creeper, Coast Wattle		
Notes	This EVC is represented by a relatively large patch in the north west of the site and is largely intact. Vegetation has affinities with Herb-rich Foothill Forest.		

SITE	67	NAME	Sunnybank Road, Langwarrin
Site Significance	Very High		
Area (Ha)	8.72		
Tenure	Private		
Biosites	None		
Site notes	Scattered remnants remain on house blocks, vegetation around houses largely cleared, weed invasion high, vegetation quality is patchy.		
Access problems	yes - couldn't get to all of the site, particularly the southern section		
EVC 1		Heathy Woodland 48	
Habitat Score	24 - 49		
Status	Depleted		
Conservation Significance	Low - Medium		
Invasive weed species	Coast Wattle, Pines, Blackberry, Sweet Vernal-grass, Sheep Sorrel, Coast Tea-tree		
Notes	Widespread and ranges in vegetation condition. Biggest weed problems are Blackberry and Coast Wattle. Weed invasion high, some species diversity in the understorey (very patchy), few large trees were observed		
EVC 2		Swampy Woodland 937	
Habitat Score	26 - 43		
Status	Endangered		
Conservation Significance	High - Very High		
Invasive weed species	Coast Wattle, Pines, Blackberry, Yorkshire Fog, Wood Forget-me-not, Ribwort, Prunus		
Notes	Low species diversity, highly weed invaded, thin strip associated with a drainage line, few large trees observed, frogs were heard calling		

SITE 68 NAME Donald Road, Langwarrin South

Site Significance	Very High
Area (Ha)	19.43
Tenure	Private
Biosites	None
Site notes	A fragmented site that has been impacted by housing development.
Access problems	Yes

EVC 1**Valley Heathy Forest 127**

Habitat Score	41 - 58
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Coast Wattle, Sweet Pittosporum, Sweet Vernal-grass and Yorkshire Fog.
Notes	Consists of small remnants near Altarnun Road and larger remnants out the back of private properties. The majority of sections support scattered trees (including Long-leaf Peppermint, Silver-leaf Stringybark and Swamp Gum)

SITE	69	NAME	Victory Road, Donald Rd, Langwarrin
Site Significance	High		
Area (Ha)	23.66		
Tenure	Private		
Biosites	None		
Site notes	The core patch between Donald Road and Victory Road supports good quality vegetation, with relatively high species diversity.		
Access problems	Yes		

EVC 1	Heathy Woodland 48
Habitat Score	40 - 71
Status	Depleted
Conservation Significance	Medium - High
Invasive weed species	Coast Wattle, Sweet Pittosporum, Coast Tea-tree, Blackberry, Pine, Sweet Vernal-grass, Yorkshire Fog
Notes	High quality vegetation towards the eastern end of Donald Road and includes Land for Wildlife properties. Western end of the patch is more degraded.
EVC 2	Swampy Woodland 937
Habitat Score	24 - 51
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Blackberry, Sweet Pittosporum, Boneseed, Montpellier Broom, Three-corner Garlic, Sweet Vernal-grass and Prairie Grass.
Notes	This EVC runs parallel to Donald Road. Overall it is quite degraded and supports a high cover of weeds

SITE	70	NAME	705 Robinsons Rd, Langwarrin
Site Significance	High		
Area (Ha)	2.25		
Tenure	Private		
Biosites	None		
Site notes	No access, but site appears degraded. Swamp Gums are showing dieback and control of woody weeds is required.		
Access problems	Yes		

EVC 1	Swampy Woodland 937
Habitat Score	23
Status	Endangered
Conservation Significance	High
Invasive weed species	Sweet Pittosporum, Pine, Blackberry, Yorkshire Fog, Prairie Grass and Sweet Vernal-grass.
Notes	The area that could be assessed is very degraded and weed invaded.

SITE	71	NAME	Camp Road, Langwarrin South
Site Significance	Very High		
Area (Ha)	3.99		
Tenure	Private		
Biosites	None		
Site notes	Site supports variable quality Swampy Woodland and Grassy Woodland. Control of woody weeds is required.		
Access problems	Yes		

EVC 1	Swampy Woodland
Habitat Score	33 - 49
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Sweet Pittosporum, Coast Wattle, Blackberry, Sweet Vernal-grass, Panic Veldt-grass.
Notes	Low -moderate quality patch. Species diversity varies depending on the cover of Swamp Paperbark.

EVC 2	Valley Heathy Forest 127
Habitat Score	22 - 39
Status	Endangered
Conservation Significance	High
Invasive weed species	Sweet Pittosporum, Pine, Coast Wattle and Cedar Wattle.
Notes	In parts heavily infested with woody weeds.

SITE	72	NAME	West Road, Robinsons Rd, Langwarrin South
Site Significance	Very High		
Area (Ha)	42.51		
Tenure	Private		
Biosites	Regional (# 5151) 75210		
Site notes	The main patch is in very good condition (includes Land for Wildlife properties). The quality deteriorates to the east and west and much of this area supports scattered indigenous and planted trees.		
Access problems	Yes		

EVC 1	Heathy Woodland 48
Habitat Score	35 - 64
Status	Depleted
Conservation Significance	Medium - High
Invasive weed species	Sweet Pittosporum, Coast Wattle, Sweet Vernal-grass, Brown-top Bent and Bluebell Creeper
Notes	Variable quality; the best patches located within the Nirvana Close road reserve and within the core area along Robinsons Road
EVC 2	Valley Heathy Forest 127
Habitat Score	27 - 65
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Coast Wattle, Blackberry, Flax-leaf Broom, Sweet Pittosporum, Coast Tea-tree, Cotoneaster, Pine, Asparagus, Sweet Vernal-grass, and Bluebell Creeper.
Notes	Despite the diversity of weeds, most of the vegetation is in good condition. The lowest quality patch is in the west along Robinsons Road.
EVC 3	Swampy Woodland 937
Habitat Score	31 - 54
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Sweet Pittosporum, Blackberry, Pampas Grass, Flax-leaf Broom, St Johns Wort, Pine, Sweet Vernal-grass, Canary Grass, Yorkshire Fog, Bulbil Watsonia and Spear Thistle.
Notes	This vegetation is degraded due to weed invasion, especially Blackberry.

SITE	73	NAME	Gardener Road, Langwarrin South
Site Significance	Medium		
Area (Ha)	9.94		
Tenure	Private		
Biosites	None		
Site notes	Variable quality, but overall degraded due to weeds and clearing for development.		
Access problems	Yes		

EVC 1	Heathy Woodland 48
Habitat Score	29 - 47
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Tea-tree, Sweet Pittosporum, Wandering Jew, Sweet Vernal-grass, Coast Wattle, Montbretia, Morning Glory and Pine.
Notes	The best quality patches are in the southern end of Gardeners Road. Overall, vegetation is degraded and fragmented.

SITE 74 NAME Weeroona Road, Langwarrin South

Site Significance	High
Area (Ha)	1.19
Tenure	Private
Biosites	None
Site notes	Remnants with degraded and weed infested understorey
Access problems	yes - couldn't get to all of site

EVC 1**Valley Heathy Forest 127**

Habitat Score	18 - 26
Status	Endangered
Conservation Significance	High
Invasive weed species	Coast Wattle, Montpellier Broom, Sweet Pittosporum, Panic Veldt-grass, Sweet Vernal-grass, Agapanthus, Spear Thistle
Notes	Low species diversity in understorey, high level of weed invasion, majority of site is this EVC

EVC 2**Swamp Scrub 53**

Habitat Score	17
Status	Endangered
Conservation Significance	High
Invasive weed species	Sweet Pittosporum, Blackberry, Panic Veldt-grass, Sweet Vernal-grass, Montpellier Broom, Large Quaking-grass, Coast Wattle, Spear Thistle, Cat's Ear
Notes	Very small area, some tree death, high cover of weeds, disturbed, and low species diversity, associated with creekline (choked with Blackberry)

SITE 76 NAME Highfield Dr., 385 Baxter - Tooradin Rd, Langwarrin

Site Significance	High
Area (Ha)	3.83
Tenure	Private
Biosites	None
Site notes	Remnants of patchy quality, very weed infested. Artificial wetland on property not assessed.
Access problems	yes - couldn't get access to the whole site

EVC 1	Swampy Riparian Woodland 83
Habitat Score	19 - 24
Status	Endangered
Conservation Significance	High
Invasive weed species	Blackberry, Sweet Pittosporum, Mirror Bush, Sweet Vernal-grass, Pines, Panic Veldt-grass, Toowoomba Canary-grass, Montpellier Broom
Notes	Highly disturbed and weed infested, lots of Eucalyptus tree death, canopy is dominated by Blackwood. An ephemeral creek runs through the site, High cover of Blackberry and some Swamp Paperbark
EVC 2	Swamp Scrub 53
Habitat Score	18
Status	Endangered
Conservation Significance	High
Invasive weed species	Blackberry, Sweet Pittosporum, Mirror Bush, Coast Wattle, Toowoomba Canary-grass, other grassy weeds
Notes	Very disturbed, Blackberry thicket in understorey. Swamp Paperbark forms a dense shrub layer with occasional emergent Swamp Gums and Blackwood
EVC 3	Grassy Woodland 175
Habitat Score	21- 24
Status	Endangered
Conservation Significance	High
Invasive weed species	Sweet Vernal-grass, Pines, Blackberry, Sweet Pittosporum, Yorkshire Fog, Panic Veldt-grass, Ribwort
Notes	Mostly derived vegetation, very disturbed, high cover of Bracken and Thatch-saw Sedge along with exotic grasses. Some planting along roadside (particularly of Spiny-headed Mat-rush). Small patch to the south-west of better quality though low diversity.

SITE 78 NAME 30 Victoria Road, Langwarrin South

Site Significance	Medium
Area (Ha)	2.09
Tenure	Private
Biosites	None
Site notes	Supports low - moderate quality vegetation. Access to site limited.
Access problems	yes

EVC 1 Heathy Woodland 48

Habitat Score	29 - 51
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Sweet Pittosporum, Coast Wattle, Coast Tea-tree, Pine, Red-ink Weed, Panic Veldt-grass, Sweet Vernal-grass and Couch.
Notes	Variable quality; front section is patchy and rare section looks in better condition but could not be accessed.

EVC 2 Riparian Scrub 191

Habitat Score	25 - 30
Status	Vulnerable
Conservation Significance	Medium - High
Invasive weed species	Sweet Pittosporum
Notes	This patch has been recently burnt and parts have been revegetated.

SITE 79 NAME 50 Victoria Road, Langwarrin South

Site Significance	High
Area (Ha)	1.57
Tenure	Private
Biosites	None
Site notes	Overall, this patch is degraded and weed control is required.
Access problems	No

EVC 1 Heathy Woodland 48

Habitat Score	31 - 48
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Sweet Pittosporum, Blackberry, Red-ink Bush, Sweet Vernal-grass, Panic Veldt-grass and Yorkshire Fog
Notes	This EVC varies in quality. Overall, species poor with low-moderate weed cover.

EVC 2 Swampy Woodland 937

Habitat Score	19 - 34
Status	Endangered
Conservation Significance	High
Invasive weed species	Blackberry, Drain Flat-sedge, Sweet Pittosporum, Paspalum and Water Couch.
Notes	Very degraded and infested with Blackberry. Swamp Gums showing dieback.

EVC 3 Valley Heathy Forest

Habitat Score	22 - 34
Status	Endangered
Conservation Significance	High
Invasive weed species	Coast Wattle, Sweet Pittosporum, Sweet Vernal-grass and Panic Veldt-grass
Notes	Degraded due to weed invasion.

SITE	80	NAME	Baxter-Tooradin Rd, Victoria Rd, Langwarrin
Site Significance		Medium	
Area (Ha)		0.91	
Tenure		Private	
Biosites		None	
Site notes		Much of this site supports scattered indigenous trees. Extant remnants are small, degraded and species-poor.	
Access problems		yes - part of Victoria Rd	

EVC 1	Heathy Woodland 48
Habitat Score	28 - 38
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Blackberry, Coast Wattle, Sweet Vernal-grass and Panic Veldt-grass
Notes	A small remnant located at the back of a block. Understorey very dominated by Bracken.
EVC 2	Swampy Woodland 937
Habitat Score	24 - 31
Status	Endangered
Conservation Significance	High
Invasive weed species	Blackberry, Red-ink Weed, Sweet Vernal-grass, Yorkshire Fog, Drain Flat-sedge, Spear Thistle and Fiddle Dock.
Notes	A very small disturbed patch located along a drainage line.

SITE	81	NAME	Victoria Road - D -Hastings Rd, Langwarrin South
Site Significance			Medium
Area (Ha)			0.94
Tenure			Private
Biosites			None
Site notes			Most of the property supports scattered trees over an exotic understorey. The small remnant of Heathy Woodland requires weed control.
Access problems			Yes

EVC 1	Heathy Woodland 48
Habitat Score	39 - 50
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Wattle, Sweet Pittosporum, Blackberry, Sweet Vernal-grass, Brown-top Bent and Yorkshire Fog.
Notes	A small remnant that has been invaded by Coast Wattle, but still supports a good shrub layer.

SITE 82 NAME Olivers Hill, Frankston South
Site Significance Low - Medium

Area (Ha) 3.39

Tenure Public

Biosites State (#4615) ?4651

Site notes Generally very disturbed and weed invaded. Patches of reasonable quality. Elements of other coastal EVCs but geographically considered as Coastal Headland vegetation and treated as one unit. Management should include restriction of access by pedestrians.

Access problems No

EVC 1 Coastal Headland Scrub 161
Habitat Score 18 - 41

Status Vulnerable

Conservation Significance Low - Medium

Invasive weed species Boneseed, Myrtle-leaf Milkwort, Boxthorn, Gazania, many grassy and other herbaceous species

Notes Merges into Coastal Dune Scrub and Coast Banksia Woodland.

SITE 83 NAME Bergman Rd road reserve, Langwarrin

Site Significance	Very High
Area (Ha)	1.33
Tenure	Public
Biosites	None
Site notes	Variable quality roadside remnant, but relatively high values in some areas.
Access problems	No

EVC 1**Valley Heathy Forest 127**

Habitat Score	39 - 62
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Coast Wattle, Sweet Pittosporum, Bluebell Creeper, Sweet Vernal-grass, Cocksfoot.
Notes	Patchy roadside vegetation, ranges from very good quality to scattered indigenous trees. Includes sections subject to slashing this promotes indigenous species.

EVC 2**Swampy Woodland 937**

Habitat Score	48
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Sweet Pittosporum, Cocksfoot, and Spear Thistle.
Notes	A small degraded patch located on the east side of Bergman Road.

SITE	84	NAME	Oliphant Way Wetland, Seaford
Site Significance	Very High		
Area (Ha)	13.98		
Tenure	Public		
Biosites	None		
Site notes	Site could not be assessed due to Freeway construction. Vegetation quality and mapping are based on Biosis 2003, however some of this vegetation may now be cleared.		
Access problems	Yes		

EVC 1	Plains Grassy Wetland 125
Habitat Score	14 - 63
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	
Notes	Vegetation condition scores and mapping are based on Net Gain assessment by Biosis 2003.
EVC 2	Plains Grassland 132
Habitat Score	24
Status	Endangered
Conservation Significance	High
Invasive weed species	
Notes	Based on Biosis 2003.
EVC 3	Swamp Scrub 53
Habitat Score	40 - 48
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	
Notes	Based on Biosis 2003.

SITE	86	NAME	13 Gum Hill Drive, Langwarrin
Site Significance	Very High		
Area (Ha)	1.67		
Tenure	Private		
Biosites	None		
Site notes	Land for wildlife property. Landowners actively undertake weed control and revegetation. Tree clearing around the house with retention of native understorey. A species list (139 species including a number of orchids and seasonal herbs) is available from the landowner.		
Access problems	No		

EVC 1	Valley Heathy Forest 127
Habitat Score	54 - 65
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Pines, Coast Wattle
Notes	Small remnant of high quality, very weed free. Species diversity is very high.
EVC 2	Swamp Scrub 53
Habitat Score	50 - 59
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Coast Wattle, Blackberry
Notes	Relatively good patch of Swamp Scrub. Blackberry is invading in parts.

SITE **87** **NAME** **Shepherds Hut Rd, Langwarrin South**

Site Significance Very High

Area (Ha) 1.17

Tenure private

Biosites None

Site notes Small patches of remnant vegetation in moderate condition. Limited access.

Access problems Yes

EVC 1

Grassy Woodland 175

Habitat Score 32 - 48

Status Endangered

Conservation Significance High - Very High

Invasive weed species Wandering Jew, Sweet Pittosporum, Sweet Vernal-grass, Panic Veldt-grass and Yorkshire Fog.

Notes

SITE	88	NAME	Frankston Pier to Somme Ave, Frankston
Site Significance	Very High		
Area (Ha)	2.27		
Tenure	Public		
Biosites	Regional (#4653)		
Site notes	Intensively managed; score somewhat artificial due to revegetation works. Weeds require on-going management.		
Access problems	Yes		

EVC 1	Coastal Dune Scrub 160
Habitat Score	52
Status	Vulnerable
Conservation Significance	Low
Invasive weed species	Gazania, Mirror-bush, Bridal Creeper, Clover
Notes	Merges into Coast Banksia Woodland. Management, including intensive revegetation.
EVC 2	Coast Banksia Woodland 2
Habitat Score	42
Status	Vulnerable
Conservation Significance	High
Invasive weed species	Boxthorn, Angled Onion, herbaceous weeds
Notes	Patchy condition

SITE	89	NAME	Frankston Beach, Long Island; Wells St to Allawah Ave.
Site Significance			High – Very High
Area (Ha)			3.05
Tenure			Public
Biosites			Regional (#4653)
Site notes			Mostly relatively narrow, subject to user-pressure, erosion and weed invasion. No Condition Scores; indicatively low conservation significance but high values as part of continuum of coastal vegetation and contribution of vegetation to dune stability - user pressure needs to be controlled; weed control lower priority.
Access problems			No
EVC 1			Coastal Dune Scrub / Coastal Dune Grassland Mosaic 1
Habitat Score			< 50
Status			Endangered
Conservation Significance			High – Very High
Invasive weed species			Marram Grass, Hare's-tail Grass

SITE	90	NAME	Navarre Reserve, Frankston
Site Significance			High
Area (Ha)			0.78
Tenure			Public
Biosites			None
Site notes			Most of reserve supports good patches of remnant adjacent to mown and cultivated areas for recreation. Some dieback. Continued management should ensure maintenance of values; weed control required.
Access problems			No

EVC 1	Damp Heathy Woodland 793
Habitat Score	35 - 45
Status	Vulnerable
Conservation Significance	High
Invasive weed species	Coast Wattle, Coast Tea-tree, Ivy, Bluebell Creeper, Angled Onion
Notes	Patchy but remnants in good condition

SITE	91	NAME	Gumnut Bushland Reserve, Frankston
Site Significance			Medium - High
Area (Ha)			2.20
Tenure			Public
Biosites			None
Site notes			Some revegetation work has been undertaken (planting and fauna habitat augmentation) and some weed control.
Access problems			No

EVC 1	Heathy Woodland 48
Habitat Score	54 - 60
Status	Depleted
Conservation Significance	Medium - High
Invasive weed species	Coast Wattle, Boneseed, Sweet Pittosporum, White Shallow-wattle, Prairie Grass, Toowoomba Canary-grass, Black Nightshade, Common Sow-thistle
Notes	Variation within Heathy Woodland EVC. South-east corner dominated by graminoids (e.g. Thatch Saw-sedge, Coast Flax-lily, Slender Sword-sedge), North end Bracken dominated. Good fauna habitat (some large hollows, logs and stags), high diversity of species. Generally good quality.

SITE	92	NAME	Illawong Reserve, Langwarrin
Site Significance	Medium		
Area (Ha)	0.57		
Tenure	Public		
Biosites	None		
Site notes	Small patch, north-east end is a playground, patch becoming invaded by grassy weeds		
Access problems	No		

EVC 1	Heathy Woodland 48
Habitat Score	31 - 42
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Wattle, Prairie Grass, Toowoomba Canary-grass, Sheep Sorrel, Cape Weed, Panic Veldt-grass, Narrow-leaf Clover
Notes	Understorey Bracken dominated with a scattering of shrubs and graminoids, few large trees

SITE	93	NAME	Kooluna Reserve, Frankston
Site Significance	Medium		
Area (Ha)	0.30		
Tenure	Public		
Biosites	None		
Site notes	Small, disturbed remnant with severe infestation of Berry-flower Heath. Otherwise reasonably high values with large old trees and patches with species-rich ground stratum.		
Access problems	No		

EVC 1	Heathy Woodland 48
Habitat Score	31 - 35
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Berry-flower Heath, grassy weeds
Notes	Patchy remnant

SITE **94** **NAME** **Clifton Reserve, Carrum Downs**

Site Significance Medium

Area (Ha) 0.20

Tenure Public

Biosites None

Site notes Small patches of good quality Heathy Woodland surrounding a playground.

Access problems No

EVC 1

Heathy Woodland

Habitat Score 46

Status Depleted

Conservation Significance Medium

Invasive weed species Panic Veldt-grass, Annual Veldt-grass and Sheep Sorrel

Notes Small remnant patches in very good condition. Some of these areas may have been planted due to the high density of small shrubs.

SITE	96	NAME	Lloyd Park, Cranbourne - Frankston Rd,
Site Significance		Very High	
Area (Ha)		5.70	
Tenure		Public	
Biosites		None	
Site notes		High user pressures and extensive, often dense weed invasions. Small patches of reasonable quality remnants. Some areas with indigenous scattered trees over an exotic understorey.	
Access problems		No	

EVC 1	Riparian Scrub 191
Habitat Score	45 - 56
Status	Vulnerable
Conservation Significance	High - Very High
Invasive weed species	Sweet Pittosporum, Boneseed, Tree Lucerne, Blackberry, Coast Wattle, Gorse, Holly, Pines, Pampas Grass, Coast Tea-tree, Ivy, Cootamundra Wattle, Angle Onion
Notes	Very disturbed but retains some values with large old trees and species-rich patches
EVC 2	Heathy Woodland 48
Habitat Score	34 - 50
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Wattle, Sweet Pittosporum, Blackberry, Annual Veldt-grass, Panic Veldt-grass, Sweet Vernal-grass and Quaking Grass.
Notes	Located in the north-east of Lloyd Park, the quality of this EVC varies considerably. Parts of this patch are species rich.

SITE	97	NAME	Oakwood Reserve, Carrum Downs
Site Significance			Medium
Area (Ha)			0.36
Tenure			Public
Biosites			None
Site notes			Consists of a patch within a small council reserve that is contiguous with the adjacent property. This neighbouring property has similar species present, but a much high cover of Coast Tea-tree.
Access problems			No

EVC 1	Heathy Woodland 48
Habitat Score	37
Status	Depleted
Conservation Significance	Medium
Invasive weed species	Coast Tea-tree, Coast Wattle, Capeweed, Annual Veldt-grass and Panic Veldt-grass
Notes	This small remnant is very patchy, with lots of bare ground in some areas.

SITE	98	NAME	Council Reserve, North & Centre Roads
Site Significance	Very High		
Area (Ha)	13.84		
Tenure	Public		
Biosites	None		
Site notes	Relatively small area of intact native vegetation; larger area is modified due to past quarry activities and other vegetation clearance, as well as weed invasion.		
Access problems	yes – cyclone fence around old quarry area		

EVC 1	Valley Heathy Forest 127
Habitat Score	37 - 57
Status	Vulnerable
Conservation Significance	High - Very High
Invasive weed species	Coast Wattle, Coast Tea-tree, Montpellier Broom, Pines, Sweet Pittosporum, Cotoneaster, Blackberry, Boneseed, Sweet Vernal-grass and Bluebell Creeper
Notes	Restricted to the gully, this vegetation is a woodland to open forest of Messmate Stringybark and Narrow-leaf Peppermint (has affinities with Herb-rich Foothill Forest). The best quality vegetation is within the Centre Road road reserve.
EVC 2	Swamp Scrub 53
Habitat Score	48
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Coast Wattle, Sweet Pittosporum, Pines
Notes	Restricted to drainage line in northern section of site.
EVC 3	Heathy Woodland 48
Habitat Score	29 - 36
Status	Depleted
Conservation Significance	Low - Moderate
Invasive weed species	Sweet Pittosporum, Coast Wattle, Coast Tea-tree, Pine, Flax-leaf Broom, Sweet Vernal-grass, Panic Veldt-grass and Brown-top Bent
Notes	Degraded due to mining. High cover of woody weeds.

SITE	99	NAME	Outlook Reserve, Frankston
Site Significance		Medium	
Area (Ha)		0.33	
Tenure		Public	
Biosites		None	
Site notes		The Heathy Woodland remnant is very small, but well maintained. It is threatened by weed invasion and garden rubbish dumping. The area in the north (other side of cyclone fence) is a forest of Coast Tea-tree.	
Access problems		No	
EVC 1		Heathy Woodland 48	
Habitat Score		24 - 56	
Status		Depleted	
Conservation Significance		Low - Medium	
Invasive weed species		Coast Tea-tree, Coast Wattle Sweet Vernal-grass, Panic Veldt-grass, Soursob.	
Notes		Located in the southern section, the majority of this small remnant is very species rich and well looked after.	

SITE 100 NAME Banjo Rise, Carrum Downs

Site Significance	Medium
Area (Ha)	0.54
Tenure	Public
Biosites	None
Site notes	A small remnant with some supplementary plantings.
Access problems	No

EVC 1**Heathy Woodland 48**

Habitat Score	29 - 41
Status	Depleted
Conservation Significance	Low - Medium
Invasive weed species	Coast Tea-tree, Pines, Yorkshire Fog, Panic Veldt-grass, Mouse-ear Chickweed and White Arum-lily.
Notes	This remnant has a high cover of exotic grass. Some plantings have been undertaken on one edge and some species used are probably not indigenous to the EVC within this area. Vegetation condition assessment was for the non-planted part of the reserve.

SITE	101	NAME	Frankston Foreshore - Davey's Bay
Site Significance	Medium		
Area (Ha)	0.89		
Tenure	Public		
Biosites	None		
Site notes	Steep cliff/dunes leading onto beach, small linear remnant, high cover of weeds, some dune/cliff instability		
Access problems	No		

EVC 1	Coastal Headland Scrub 161
Habitat Score	23 - 30
Status	Vulnerable
Conservation Significance	Medium
Invasive weed species	English Ivy, African Boxthorn, Prairie Grass, Kikuyu, Boneseed, Toowoomba Canary-grass, Pines, Mirror Bush, Common Sow-thistle, Couch, Hare's-tail Grass, Gazania, Myrtle-leaf Milkwort
Notes	Very weed-infested. Southern end of better quality, some dune/cliff instability, ground layer dominated by Kikuyu but generally a good cover of shrubs. Biocontrol of Boneseed (extant cover is relatively low).

SITE	102	NAME	Rinella Reserve, Frankston South
Site Significance	High - Very High		
Area (Ha)	1.68		
Tenure	Public		
Biosites	None		
Site notes	Very small remnant in gully adjoining Frankston Reservoir, mostly park with mown grass. Includes large trees with patchy native understorey, some planting and faunal habitat augmentation.		
Access problems	No		

EVC 1	Grassy Woodland 175
Habitat Score	26 - 40
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Yorkshire Fog, Prairie Grass, Wood Sorrel, Panic Veldt-grass, Coast Wattle, Blue Psoralea
Notes	

SITE	103	NAME	Overport Park, Frankston South
Site Significance	High - Very High		
Area (Ha)	9.74		
Tenure	Public		
Biosites	None		
Site notes	Steep gully with small creek, joins the Frankston Reservoir to the north. North end of good quality – remnants of both slope and instream vegetation.		
Access problems	No		

EVC 1	Gully Woodland 902
Habitat Score	23 - 43
Status	Endangered
Conservation Significance	High - Very High
Invasive weed species	Sweet Pittosporum, Coast Wattle, Boneseed, Panic Veldt-grass, Bridal Creeper, Pines, Blackberry, Arum lily, Prunus, Desert Ash, Sweet Briar, Agapanthus, Montpellier Broom, Watsonia, Banana Passion-fruit, English Ivy, English Holly
Notes	Quality varies greatly along creek, quality to south-west end of creek is very poor, improves greatly towards the Frankston Reservoir, weed invasion high

SITE **104** **NAME** **Macrosty Crt, Frankston**

Site Significance Low - Medium

Area (Ha) 0.49

Tenure Public

Biosites None

Site notes This small remnant in a public reserve is degraded around edges but otherwise is fairly intact.

Access problems No

EVC 1

Heathy Woodland 48

Habitat Score 18 - 38

Status Depleted

Conservation Significance Low - Medium

Invasive weed species Bluebell Creeper, Coast Wattle, Coast Tea-tree, Sweet Pittosporum, Blackberry, Wandering Jew

Notes Grades to Swampy Woodland downslope but remnant too small to be delineated.

SITE	105	NAME	Derinya Reserve, Frankston South
Site Significance			Very High
Area (Ha)			1.29
Tenure			public
Biosites			None
Site notes			Patchy with mown areas but species-rich remnants (incl. orchids and lilies)
Access problems			No

EVC 1	Grassy Woodland 175
Habitat Score	55
Status	Endangered
Conservation Significance	Very High
Invasive weed species	Coast Wattle, Ivy, Montpellier Broom, Bluebell Creeper

SITE **106** **NAME** **Esplanade Reserve, Frankston**

Site Significance 'Medium'

Area (Ha) 0.83

Tenure Public

Biosites None

Site notes Steep site on two geologies (Baxter Sandstone and Devonian Granodiorite), with a history of disturbance makes determination of EVC(s) difficult. Possibly a coastal variant of Heathy Woodland.

Access problems No

EVC 1 **Heathy Woodland variant**

Habitat Score 33 - 42

Status D'

Conservation Significance 'Medium'

Invasive weed species Myrtle-leaf Milkwort, Boneseed, Bridal Creeper, Mirror-bush, numerous other species including vines, grasses and lilies.

Notes Difficult to determine EVC

SITE	107	NAME	Brahma Kumaris Retreat Centre, Frankston
Site Significance	High - Very High		
Area (Ha)	8.04		
Tenure	Private		
Biosites	None		
Site notes	North-east portion of site is scattered trees over a cleared understorey. Most of the Swampy Woodland EVC is fairly degraded.		
Access problems	No		
EVC 1		Grassy Woodland 175	
Habitat Score	33 - 51		
Status	Endangered		
Conservation Significance	High - Very High		
Invasive weed species	Sweet Pittosporum, Pines, Blackberry, Coast Wattle		
Notes	Remnant of patchy quality, very weed invaded in parts.		
EVC 2		Swampy Woodland 937	
Habitat Score	30 - 35		
Status	Endangered		
Conservation Significance	High		
Invasive weed species	Blackberry, Jew, Pampas-grass, Pines, English Ivy, Holly		
Notes	Small, degraded remnant associated with a drainage-line and fringing a wetland. Weed invasion is moderate to severe.		

SITE	108	NAME	Kackeraboite Creek, Frankston South
Site Significance	High		
Area (Ha)	0.74		
Tenure	Public?		
Biosites	None		
Site notes	Narrow, steep, degraded Coastal Dune Scrub remnant at the mouth of Kackeraboite Creek. Banks are steep, high and there is some erosion. Water at the western end is estuarine and tidal. Eastern end is almost entirely exotic, invaded by Willows, Desert Ash, Oak and Blackberry. Requires on-going weed management. Lots of garden escapees from surrounding properties. Instream vegetation and fauna (small schools of fish), notable rock formations in-stream.		
Access problems	No		
EVC 1	Coastal Headland Scrub 161		
Habitat Score	37 - 41		
Status	Vulnerable		
Conservation Significance	High		
Invasive weed species	Gazania, Mirror-bush, Boneseed, Blackberry, African Box-thorn, Buffalo Grass, Cape Ivy, Myrtle-leaf Milkwort		
Notes	Very weed invaded, particularly upslope by garden escapees. EVC only applies to western end near creek mouth.		

