

Roadside Vegetation and Conservation Values in the Shire of Capel



Photos by: K. Payne, RCC

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Roadside Conservation Committee



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Report compiled by Kylie Payne and Edna McLaughlin, Roadside Conservation Committee (RCC)

Map produced by Produced by Geographic Information Services (GIS) Section, Department of Environment and Conservation (DEC). Data supplied by RCC from Shire of Capel roadside surveys conducted by local volunteers and RCC staff.

Executive Summary

This report provides an overview of the conservation status of roadside remnant vegetation in the Shire of Capel. The report primarily provides detailed results of the roadside survey and is accompanied by management recommendations. It also briefly describes the natural environment in Capel, legislative considerations and threats to conservation values.

Aware of the need to conserve roadside remnants, the Shire of Capel and local community members liaised with the Roadside Conservation Committee (RCC) to survey roadsides in their Shire. Surveys to assess the conservation values of roadside remnants were conducted in September 2009 and September and October 2010 and February 2011. Approximately, 95.4% of the Shire's 312.8 km of rural roadsides were assessed by the RCC for their conservation status and maps were produced via a Geographic Information System (GIS). This represents the majority of non-urban roads. Roadside locations of six nominated weeds were also recorded and mapped onto separate clear overlays.

The results of the survey indicated that high conservation value roadsides covered 14% of the roadsides surveyed in the Shire, with medium-high conservation value roadsides accounting for 27%. Medium-low and low conservation value roadsides occupied 24% and 35%, respectively. A more detailed analysis of results is presented in Part C of this report.

It is envisaged that the primary purpose of the roadside survey data and Roadside Conservation Value (RCV) map will be for use by Shire and community groups as a management and planning tool. Applications may range from prioritising work programs to formulating management strategies. Past experience has shown that this document and the accompanying maps are valuable in assisting with:

- formulating a roadside vegetation management plan for road maintenance work;
- identifying degraded areas for strategic rehabilitation or specific management techniques and weed control programs;
- re-establishing habitat linkages throughout the Shire's overall conservation network;
- developing regional or district fire management plans;
- identifying potential tourist routes, i.e. roads with high conservation value would provide visitors with an insight into the remnant vegetation of the district; and
- incorporating into Landcare or similar projects for 'whole of' landscape projects.

Successive surveys of some Shires have revealed an alarming decline in the conservation status of many roadside reserves. In some cases the conservation value has declined at a rate of approximately 10% in 9 years. This trend indicates that without appropriate protection and management, roadside reserves will become veritable biological wastelands within the near future. However, proactive and innovative management of roadside vegetation has the potential to abate and reverse this general decline. Opportunities exist for the Shire of Capel to utilise the RCV map in many facets of its Landcare, tourism, road maintenance operations and Natural Resource Management (NRM) strategy documents. In addition, the RCC is available to provide assistance with the development of roadside vegetation management plans and associated documents.

PART A

OVERVIEW OF ROADSIDE CONSERVATION

1.0 Why is Roadside Vegetation Important?

Since the settlement of Western Australia by Europeans, large areas of native vegetation in the south west of the state have been cleared for agriculture, settlements, and other development. The fragmentation of the more or less continuous expanse of native vegetation communities by clearing has resulted in a mosaic of man-made biogeographical islands of small native vegetation remnants.

The flora and fauna in these areas are in jeopardy due to limited resources, increased disease risk and reduced genetic diversity caused by a diminishing gene pool. Some habitat fragments may be too small to provide the requirements for even a small population; therefore it is essential to their survival that they have a means of dispersing throughout the landscape. The presence of native vegetation along roadsides often fulfils an important role in alleviating this isolation effect by providing connectivity between bush remnants. While many roadside reserves are inadequate in size to support many plant and animal communities, they are integral in providing connections between larger areas of potentially more suitable remnant patches. It is therefore important that all native vegetation is protected regardless of the apparent conservation value it contains. It is important to acknowledge that even degraded roadsides have the ability to act as corridors for the dispersal of a variety of fauna.



Tree hollows are of vital importance to breeding birds.

Photo by L. McMahon, Birds Australia

Other important values of transport corridor remnants are that they:

- are often the only remaining example of original vegetation within extensively cleared areas;
- often contain rare and endangered plants and animals, such that roadside plants represent more than 20% of the known populations of Declared Rare Flora (DRF) and three species are known only to exist in roadside populations (Source: DEC's DEFL database March 2011);
- provide the basis for our important wildflower tourism industry, the aesthetic appeal of well-maintained roadsides potentially improving local tourism and proving a sense of place;
- often contain sites of Aboriginal /European historic or cultural significance;
- provide windbreaks and stock shelter areas for adjoining farmland by helping to stabilise temperature and reduce evaporation;
- assist with erosion and salinity control, in both the land adjoining the road reserve and further afield; and
- provide a valuable source of seed for regeneration projects, especially shrub species, as clearing and grazing beneath farm trees often removes this layer. Approval of the local Shire and a Department of Environment and Conservation (DEC) permit are required prior to collection. Guidelines for seed and timber harvesting can be found in Appendix 7.



Flora Roads are high conservation value roadside remnants.

Photo D. Lamont.

2.0 What are the Threats?

2.1 Lack of Awareness

The general decline of the roadside environment can, in many instances, be attributed to the lack of awareness of the functional and conservation value of the roadside remnants, both by the general community and those who work in the road reserve environment. The lack of awareness of the roadside vegetation's values means that those connected with the roadside are unable to modify their actions to minimise their impact. As a result, activities such as road maintenance and the use of fire, can act as a catalyst for decline in environmental quality.

2.2 Roadside Clearing

Western Australia's agricultural region, also known as the Intensive Land-use Zone (ILZ), covers an area of approximately 24,834,575 ha, of which only 7,531,044 ha (30.3%) is covered by the original native vegetation. Of the 86 rural Local Government Authorities (LGA's) in this zone, 10 have less than 10% of the original remnant vegetation and a further 38 LGA's have less than 30% of native vegetation extent. (Source: Geographic Information Services, Department of Agriculture and Food W.A. (2011).

Road and roadside vegetation management practices have a significant impact on the conservation of roadside vegetation. The decision to minimise clearing for construction and maintenance, and avoid systematic and indiscriminate clearing which creates irreversible damage, will enable roadside vegetation to continue to act as a biological corridor and habitat.



Recent clearing in the Shire of Capel
Photo: K. Payne

Due to the movement and disturbance of soil, all road construction and maintenance activities have the potential to introduce and spread weeds and dieback, which have a devastating impact on native vegetation. It is thus important to work from "clean" areas to "dirty" – that is, from areas that are weed and/or dieback free to those areas in which weeds and/or dieback exist. It is also important to clean down machinery before moving between work sites.



Fowler Rd

In 2004 amendments to the *Environmental Protection Act 1986* put in place a permit application process designed to assess proposed vegetation clearing based upon a number of clearing principles which ensure ecological, conservation and land degradation issues are considered. Under the Act, clearing native vegetation requires a permit unless it is

for exempt purposes. These amendments are designed to provide improved protection for native vegetation, maintain biodiversity and allow for some incidental clearing activities to continue, such as day-to-day farming practices, without the need for a permit.

2.3 Fire

Although Western Australia's flora and fauna have evolved with a tolerance to pre-European fire regimes these are generally not present today. Fire in transport corridors will inevitably alter the native vegetation; however the extent of changes is dependent on a number of factors such as:

- species present;
- intensity of fire;
- frequency of fire; and
- seasonality of the fire.

The RCC's policy on fire management is:

- roadside burning should not take place without the consent of the managing authority;
- Local Government Authorities should adopt by-laws to control roadside burning;
- roadside burning should be planned as part of a total Shire/area Fire Management Plan;
- only one side of a road should be burnt in any one year;
- when designing a Fire Management Plan, the two principles which must be kept in mind are the ecological management of vegetation and the abatement of fire hazard;
- no firebreaks within the Road Reserve should be permitted unless the width of the roadside vegetation strip is greater than 20m;
- a firebreak on any road reserve should be permitted only when, in the opinion of the road manager, one is necessary for the protection of the roadside vegetation. The road manager shall specify the maximum width to which the break may be constructed; and
- in the case of any dispute concerning roadside fire management, the Fire and Emergency Services Authority (FESA) should be called in to arbitrate.

If a decision is made to use fire, only one side of a road should be burnt in any one year, as this will ensure habitat retention for associated fauna and also retention of some of the scenic values associated with the road.

Fire can be particularly destructive to heritage sites, whether they are of Aboriginal or European origin. Before any decision is made to burn a road verge, particularly if threatened flora is present, the proponent should be aware of all values present and the impact the fire will have.

It is illegal to burn roadsides where Declared Rare Flora (DRF) is present, without written permission from the Minister for the Environment.



Before a decision is made to burn a road verge, the impact on natural, cultural and landscape values should be carefully considered.

Photo D. Lamont

2.4 Weeds

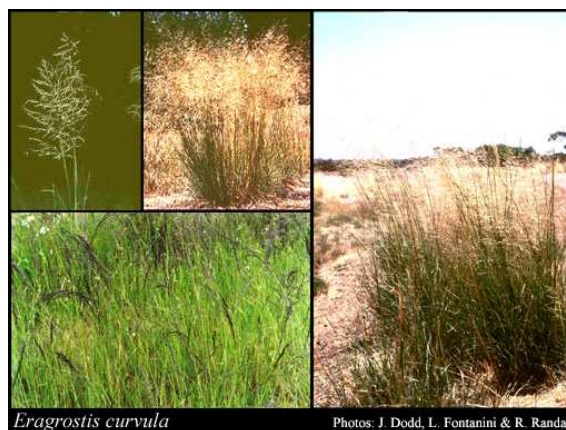
Weeds are generally disturbance opportunists and as such the road verge often provides a vacant niche which is easily colonised. Their establishment can impinge on the survival of existing native plants, increase flammability of the vegetation and interfere with the engineering structure of the road. The effect of weed infestations on native plant populations can be severe, often with flow on effects for native fauna such as diminished habitat or food resources.

Once weeds become established in an area, they become a long-term management issue, costing considerable resources to control or eradicate. The roadside survey recorded populations of six significant weeds, and their locations were mapped by the RCC onto clear overlays. The six nominated weeds were:

- African Lovegrass (*Eragrostis curvula*);
- Cape Tulip (*Moraea sp.*);
- Apple of Sodom (*Solanum sodomaeum*);
- Arum Lily (*Zantedeschia aethiopica*);
- Thistles;
- Wild Radish (*Raphanus raphanistrum*).

Roadside populations of these weeds can be observed on the weed overlays provided with the Capel Roadside

Conservation Value map (2011). The Roadside Conservation Value map and weed overlays will assist the Shire and community in planning, budgeting and coordinating strategic weed control projects. Further information on the presence of these nominated weeds is presented in Part C of this report.



Eragrostis curvula

Photos: J. Dodd, L. Fontanini & R. Randall

African Lovegrass is a widespread and serious roadside weed.

Photography by J. Dodd, L. Fontanini & R. Randall. Image used with the permission of the Western Australian Herbarium, Department of Environment and Conservation (<http://florabase.dec.wa.gov.au/help/copyright>). Accessed on Thursday, 20 January 2011.



Zantedeschia aethiopica

Photos: K. Dean, R. Knox & AGWA

Arum Lily, a native of south Africa, introduced as a garden plant. All parts of the Arum Lily are toxic.

Photography by K. Dean, R. Knox & AGWA. Photo used with the permission of the WA Herbarium, DEC (<http://florabase.dec.wa.gov.au/help/copyright>). Accessed on Thursday, 20 January 2011.



Moraea flaccida

Photos: R. Knox & K.C. Richardson

Cape Tulip, a native of southern Africa, an escaped garden plant in WA, abundant in the Avon/Swan Valley and upper great southern.

Photography by R. Knox & K.C. Richardson. Photo used with the permission of the WA Herbarium, DEC (<http://florabase.dec.wa.gov.au/help/copyright>). Accessed on Thursday, 20 January 2011.

2.5 Dieback (*Phytophthora cinnamomi*)

One of the major threats to the biodiversity of Western Australia's ecosystems is dieback disease. Approximately one third of the native flora in the south-western part of W.A is susceptible to attack. It is restricted to the south-western part of the state with the aim to control its spread.

Phytophthora dieback disease is caused by the microscopic soil-borne pathogen *Phytophthora cinnamomi*. From the soil it feeds on the roots of plants causing the roots to rot in susceptible species. Plant death occurs because plants cannot take up the water and nutrients they need for survival. Infected plants often appear to be dying from drought conditions.

Dieback can cause:

- loss of biodiversity,
- extinctions of threatened plant and animal species,
- reduced richness of native plant diversity,
- loss of key understorey species,
- disruption to woodland vegetation structure,
- loss of habitat and food sources for birds, small mammals and insects
- the increased dominance of resistant plants such as grasses, rushes and sedges.

Through the movement of infested soil and mud, especially by vehicles and footwear the pathogen is spread to other areas. It also moves in free water and via root to root contact between plants.

Dieback disease does not have a cure. However, through research it has been shown plants can improve their resistance to the pathogen by spraying or injecting plants with the fungicide, Phosphite (a derivative of phosphorus acid).

The most cost effective way of managing dieback is by limiting the spread of the disease rather than managing the impacts of the pathogen once it is introduced into a bushland.

Management practices include:

- establishing cleaning stations to avoid transport of contaminated soil,
- vehicle washdown,
- phosphite treatment,
- use of dieback free construction materials,
- seasonal and permanent road and trail closures,
- information signs and education.

In field studies of south western plant communities, the families with the highest proportion of susceptible species were Proteaceae, such as Banksia, (92 %), Epacridaceae (80 %), Fabaceae (57 %) and Myrtaceae, such as Eucalyptus, Astartea and Agonis, (16 %).



Suspected *Phytophthora* infestation in Capel
Photo: K Payne

Based on the roadside surveys conducted there are 30 sections of roads suspected of dieback in the Shire of Capel. These include sections of the following roads:

- | | | |
|----------------------|-------------------|----------------|
| • Lowrie Road | • Plantation Road | • Penn Road |
| • Queelup Road | • Fishermans Road | • Prowse Road |
| • Capel Tutenup Road | • Jilley Road | • Ducane Road |
| • Joshua Creek Road | • Woods Road | • Railway Road |
| • Kilpatrick Road | • Brookdale Road | • Hickey Close |

3.0 Legislative Requirements

Uncertainty often exists in the minds of many with regard to the 'ownership', control and management of 'the roadside'. This problem is also exacerbated by the multitude of legislative reference to activities within a transport corridor.

The Department of Environment and Conservation (DEC) has the legislative responsibility to manage and protect all native flora and fauna in Western Australia. It is important to note that all native flora and fauna is protected under provisions of the *Wildlife Conservation Act 1950* and *Environmental Protection Act 1986* and cannot be taken unless it is taken in a lawful manner. In addition to the general provisions relating to protected flora under the *Wildlife Conservation Act*, special protection is afforded to flora that is declared as rare or threatened under Section 23F of the *Wildlife Conservation Act*.

The legislation pertaining to the management of road reserves is complex and includes those listed below.

State legislation:

- *Aboriginal Heritage Act 1972*
- *Agriculture and Related Resources Protection Act 1976*
- *Bush Fires Act 1954*
- *Conservation and Land Management Act 1984*
- *Environmental Protection Act 1986*
- *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*
- *Heritage of WA Act 1990*
- *Land Act 1933*
- *Local Government Act 1995*
- *Main Roads Act 1930*
- *Mining Act 1978*
- *Soil and Land Conservation Act 1945*
- *State Energy Commission Supply Act 1979*
- *Water Authority Act 1987*
- *Wildlife Conservation Act 1950, 1979*

Commonwealth legislation:

- *Environment Protection and Biodiversity Conservation Act 1999*

Legalisation introduced under the *Environmental Protection Act 1986* specifies that all clearing of native vegetation requires a permit, unless it is for an exempt purpose. The *Environmental Protection (Clearing of*
Survey of Roadside Conservation Values in the Shire of Capel

Native Vegetation) Regulations 2004 detail these requirements. Clearing applications are assessed against ten clearing principles, which incorporate the:

- biological value of the remnant vegetation;
- potential impact on wetlands, water sources and drainage;
- existence of rare flora and threatened ecological communities; and
- land degradation impacts.

This assessment process is designed to provide a more comprehensive and stringent land clearing control system. There are two land clearing permits available: an area permit; and a purpose permit. For example, where clearing is for a once-off clearing event such as pasture clearing or an agricultural development, an area permit is required. Where ongoing clearing is necessary for a specific purpose, such as road widening programs, a purpose permit is needed. Shire road maintenance activities are exempt, to the width and height previously legally cleared for that purpose in the last 10 years (refer to Schedule 2 of the *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*).

It is recommended that a precautionary approach be taken when working within roadsides and that the relevant authority be contacted if there is any doubt about the management or protection of heritage or conservation values present in the roadsides.

4.0 Environmentally Sensitive Areas

An Environmentally Sensitive Area (ESA) is an area that requires special protection. Some of the reasons include:

- protection of rare or threatened species of native plants;
- protection of wetlands and water courses;
- protection of sites that have other high conservation, scientific or aesthetic values; and/or
- protection of Aboriginal or European cultural sites.

Environmentally Sensitive Areas can be delineated by the use of site markers. The RCC publication *Guidelines for Managing Special Environmental Areas in Transport Corridors* has advice on the design and placement of ESA markers. Workers who come across an ESA marker in the field should not disturb the area between the markers unless specifically instructed. If in doubt, the Works Supervisor, Shire Engineer or CEO should be contacted. Western Power and WestNet Rail also have systems for marking sites near power or rail lines.



Roadside ESA markers are highly visible
Photo by K. Jackson

To ensure that knowledge of rare flora and other sites does not get lost due, perhaps, to staff changes, is it recommended that the Local Authority establish an *Environmentally Sensitive Area Register*. This should outline any special treatment that the site should receive and be consulted prior to any work being initiated in the area. This will ensure that inadvertent damage does not occur.

Local Government's are encouraged to permanently mark ESA's to prevent inadvertent damage to rare flora or other values being protected. Markers of a uniform shape and colour will make recognition easier for other authorities using road reserves.

5.0 Flora Roads

A Flora Road is one which has special conservation value because of the vegetation contained within the road reserve. The managing authority may decide to declare a Flora Road based on the results of the survey of roadside conservation value and upon recommendation of the RCC. The RCC has prepared *Guidelines for the Nomination and Management of Flora Roads* (Appendix 8). The Flora Road signs (provided by the RCC) draw the attention of both the tourist and those working in the road reserve to the roadside flora, indicating that it is special and worthy of protection. The program seeks to raise the profile of roadsides within both the community and road management authorities.



Roadsides are one of the most accessible places for tourists to view wildflowers.

Photo by DEC

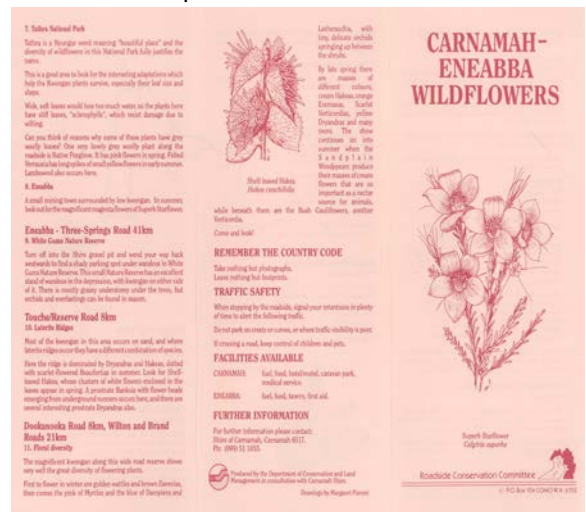
There are currently no Flora Roads within the Shire of Capel. However, the roadside survey and the RCV map highlighted a number of roadsides that have the potential to be declared as Flora Roads. These and other roads may be investigated further to see if they warrant a declaration as a Flora Road (see Part C of this report).

In order to plan roadworks so that important areas of roadside vegetation are not disturbed, road managers should be aware of these areas. To ensure this is not overlooked it is suggested that areas declared as Flora Roads be included in the Shire's *Special Environmental Area Register*.

Attractive roadsides are an important focus in Western Australia, the "Wildflower State". Flora Roads will by their very nature be attractive to tourists and would often be suitable as part of a tourist drive network. Consideration should be given to:

- promoting the road by means of a small brochure or booklet;
- showing all Flora Roads on a map of the region or State; and
- using specially designed signs to delineate the Flora Road section (provided by the RCC).

Right: The RCC has assisted local communities to produce wildflower drive pamphlets.



PART B

THE NATURAL ENVIRONMENT IN CAPEL

Flora

On a global scale, Western Australia has almost ten times the amount of vascular plant varieties than countries such as Great Britain. In fact, Western Australia has some 4.8% of the 250,000 known vascular flora present on Earth. Western Australian flora is also unique, with the majority of species being endemic; that is, found nowhere else in the world. Up to 75% of the 6,000 species in the south west, are endemic.

Naturemap, an online- spatial analysis tool containing the most comprehensive and authoritative source of information on the distribution of Western Australia's flora and fauna has recorded over 1090 species of native plants from the Shire of Capel. The most prolific genera are Fabaceae (122 spp.), Orchidaceae (89 spp), Myrtaceae (68 spp.) and Cyperaceae (66 spp.) The complete list of recorded flora can be seen in Appendix 5 of this report.

1.0 Declared Rare Flora (DRF)

Declared Rare Flora (DRF) species, or populations, are of great conservation significance and should therefore be treated with special care when road and utility service, construction or maintenance is undertaken. Populations of DRF along roadsides are designated Environmentally Sensitive Areas (ESA's) and should be delineated by

yellow markers. It is the responsibility of the road manager to ensure these markers are installed. The RCC suggests using the publication *Guidelines for Managing Special Environmental Areas in Transport Corridors* and the flyer 'Declared Rare Flora and Road Maintenance' as guidelines for managing these sites.

As of January 2011, there are 12 species of Declared Rare Flora and 57 species of Priority Flora throughout the Shire of Capel.

There are 2 DFR species and 13 Priority species recorded in 35 roadside locations in the Shire, these species are:

Declared Rare Flora

- *Drakaea elastica*
- *Verticordia densiflora* var. *pedunculata*



Declared Rare Flora (DRF) sites should be clearly marked with these yellow posts.
Photo K. Jackson



Drakaea elastica

Photos: A. Brown & S.D. Hopper

Drakaea elastica is a tuberous, perennial herb, 0.12–0.3 m high. Flowers are red, green, and yellow in October–November. Grows on white or grey sand in low-lying situations adjoining winter-wet swamps.

DEC, FloraBase (<http://florabase.dec.wa.gov.au/browse/profile/1639>). Used with the permission of the Western Australian Herbarium, DEC. Accessed on 30 March 2011.



Verticordia densiflora var. *pedunculata*

Photos: E.A. George

Verticordia densiflora var. *pedunculata* is an erect to spreading shrub, 0.3–0.6 m high. Flowers are pink and/or white in December and January. Grows in grey/yellow sand, sandy loam in winter-wet low-lying areas.

DEC, FloraBase (<http://florabase.dec.wa.gov.au/browse/profile/1639>). Used with the permission of the Western Australian Herbarium, DEC.

Priority Flora

- *Synaphea odocoileops* (Priority 1)
- *Synaphea petiolaris* subsp. *simplex* (Priority 2)
- *Boronia anceps* (Priority 3)
- *Caustis* sp. *Boyanup* (G.S. McCutcheon 1706) (P3)
- *Cyathochaeta teretifolia* (P3))
- *Isopogon formosus* subsp. *Dasylepis* (P3)
- *Verticordia attenuate* (P3)
- *Anthotium junciforme* (Priority 4)
- *Aponogeton hexatepalus* (P4)
- *Caladenia speciosa* (P4)
- *Franklandia triaristata* (P4)
- *Jacksonia sericea* (P4)
- *Ornduffia submersa* (P4)

(Source: DEC's DEFL database, 2011)

Please note: It is highly likely that there are other unrecorded populations of DRF and priority flora on roadsides in the shire that have not been recorded on DEC's threatened flora database.



Boronia anceps

Photos: D.J. Rocks

Boronia anceps is a perennial herb, 0.3–0.6 m high, with pink and purple flowers in September to January. It grows in white sand, gravelly laterite.

DEC, FloraBase.

(<http://florabase.dec.wa.gov.au/browse/profile/16313>). Used with the permission of the Western Australian Herbarium, DEC. Accessed on 27 January 2011.



Caladenia speciosa

Photos: A.P. Brown

Caladenia speciosa is a perennial, herb, 0.35–0.6 m high with white and pink flowers between September and October. It grows in white, grey or black sand

DEC, FloraBase.

(<http://florabase.dec.wa.gov.au/browse/profile/13862>) Used with the permission of the Western Australian Herbarium, DEC. Accessed on 27 January 2011

For more detailed information regarding DRF and priority flora in the Shire of Capel, contact the Department of Environment and Conservation (DEC) Threatened Flora Administrative Officer in Species and Communities Branch at Kensington on 9334 0334 or one of the Conservation Officer's (Flora) for the South West Region DEC (Bunbury) Office on 9725 4300 or the Blackwood District Busselton office on 9752 1432.

In addition, the information provided in this report will not remain current, thus it is important that the Shire check with DEC periodically to avoid inadvertent damage to newly registered populations of DRF.

If road upgrades are to be carried out near known DRF sites (which will be within an environmentally sensitive area (ESA) and protected under the EP Act); a clearing permit will be required if the vegetation is to be impacted in any way (see pages 4, 8 and 9). It is recommended you contact the local DEC office or DEC's Native Vegetation Conservation Branch on 9219 8744 at least three months in advance for advice. More information can be found on DEC's website www.dec.wa.gov.au/nvc.

2.0 Fauna

Naturemap records approximately 217 species of fauna from the Capel area (Appendix 6). Of the fauna species recorded, there were 158 bird, 6 amphibia, 23 mammal, 2 invertebrate and 28 reptile species.

Many fauna species, particularly small birds need continuous corridors of dense vegetation to move throughout the landscape. Roadsides therefore



Martin Thompson

Baudin's Black-Cockatoo is almost exclusively found in the south-west of WA

are of particular importance to avifauna because they can contain the only continuous linear vegetation connection in some areas.

The *Wildlife Conservation Act* 1950 provides for native fauna (and flora) to be specially protected where they are under an identifiable threat of extinction, and as such, are considered to be "threatened". Based on distributional data from the Department of Environment and Conservation (DEC), 27 species of threatened and priority fauna have been recorded or sighted throughout the Shire of Capel, and these are listed below.

Bird

- *Ardeotis australis* (Australian Bustard) P4
- *Botaurus poiciloptilus* (Australasian Bittern) T
- *Burhinus grallarius* (Bush Stone-curlew) P4
- *Calyptorhynchus banksii* subsp. *naso* (Forest Red-tailed Black-Cockatoo) T
- *Calyptorhynchus baudinii* (Baudin's Cockatoo) T
- *Calyptorhynchus latirostris* (Carnaby's Cockatoo) T
- *Falco peregrinus* (Peregrine Falcon) S
- *Falcunculus frontatus* subsp. *leucogaster* P4
- *Ixobrychus flavicollis* subsp. *australis* P3
- *Macronectes giganteus* (Southern Giant Petrel) T
- *Numenius madagascariensis* (Eastern Curlew) P4
- *Tyto novaehollandiae* subsp. *novaehollandiae* P3

Invertebrate

- *Geotria australis* (Pouched Lamprey) P1
- *Moggridgea tingle* (Tingle Trapdoor Spider) T

Mammal

- *Bettongia penicillata* subsp. *ogilbyi* (Brush-tailed Bettong, Woylie) T
- *Dasyurus geoffroyi* (Western Quoll, Chuditch) T
- *Eubalaena australis* (Southern Right Whale) T
- *Falsistrellus mackenziei* (Western False Pipistrelle) P4
- *Hydromys chrysogaster* (Water-rat) P4
- *Isoodon obesulus* subsp. *fusciventer* (Southern Brown Bandicoot, Quenda) P5
- *Macropus irma* (Western Brush Wallaby) P4
- *Megaptera novaeangliae* (Humpback Whale) T
- *Phascogale tapoatafa* subsp. *ssp.* (WAM M434) (Brush-tailed Phascogale,
- Wambenger) T
- *Pseudocheirus occidentalis* (Western Ringtail Possum) T
- *Setonix brachyurus* (Quokka) T

Reptile

- *Caretta caretta* (Loggerhead Turtle) T
- *Morelia spilota* subsp. *imbricata* (Carpet Python) S

Conservation Status

T - Rare or likely to become extinct

S - Other specially protected fauna

P1 – P5: Priority 1 – Priority 5



Red tailed black cockatoo
© Babs & Bert Wells/DEC



Brush- tailed phascogale
© Babs & Bert Wells/DEC



Western ringtail possum
© Babs & Bert Wells/DEC



Chudich with juveniles
© Babs & Bert Wells/DEC



Carpet python
© Babs & Bert Wells/DEC

Remnant Vegetation Cover

The *National Objectives and Targets for Biodiversity Conservation 2001-2005* (Environment Australia, 2001) state that vegetation types represented by less than 30% are considered ecologically endangered and in need of protection and restoration wherever they are located. Only 35% of the original native vegetation remains in the Shire of Capel (see Table 2 below) and this is located in a variety of tenures from nature reserves to privately owned land. The remaining native vegetation can easily be further depleted if proactive measures are not taken to manage this priceless resource.



Remnant roadside vegetation connects the landscape.

Photo by Main Roads WA

Table 1. Remnant vegetation remaining in the agricultural areas of the Shire of Capel and surrounding Shires. (Smith, DAFWA, 2008).

Shire	Total Area (ha)	Area Cleared (ha)	Vegetation Cover Remaining	
			(ha)	(%)
Capel	55,788	36,279	19,509	35.0
Dardanup	52,810	26,559	26,251	49.7
Donnybrook-Balingup	156,010	63,963	92,047	59.0
Busselton	146,206	82,845	63,361	43.3

The continued presence of the flora and fauna living in these fragmented remnants is dependant on connectivity throughout the landscape. This enables access to habitat and food resources essential for the survival of species and the overall biodiversity of the region. In many situations remnant native vegetation in transport corridors is of vital importance as it provides the only continuous link throughout the landscape.

PART C

ROADSIDE SURVEYS IN THE SHIRE OF CAPEL

1.0 Introduction

The roadside survey and mapping program was developed to provide a method of readily determining the conservation status of roadsides. Using this method, community volunteers are able to participate in a 'snapshot' survey of roadside vegetation to identify a range of attributes that, when combined, give an overall indication of the conservation status of the vegetation.

The majority (298.4km, or 95.45%) of the Shire of Capel's 312.8km of rural roads were surveyed and then assessed to determine the conservation status of the road reserves. The surveys were carried out throughout the months of September 2009, September to October 2010 and February 2011. The efforts of the roadside surveyors, and the support provided by Capel Shire Council ensured that this project was successfully completed. The roadside surveyors were:

- Cheryl Campbell
- Sarah Clifton
- Beth Golden
- Nick Hornibrook
- David Hutton
- Elizabeth Jeffery
- Bronwyn Mutton
- Gary Scott
- James Scott
- Evelyn Taylor
- Michael Tichbon
- Marylyn Yugovich
- Kylie Payne
- Edna McLaughlin

1.1 Methods

The roadside surveys were undertaken in a vehicle, generally with two people per vehicle. The passenger recorded all the roadside survey data using the Handheld devices shown in Appendix 1. The 2009 surveys were conducted using hand held IPAQ's and there was some data loss so a new system was developed in 2010 which was more reliable and collected more data, including vegetation type, tree decline, environmentally sensitive areas etc and has an inbuilt GPS system. There were some teething problems with the new system, as expected and with combining the data sets from 2009 and 2010, which were generated from two very different systems.

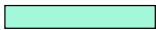
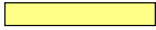
With the new system, the data is immediately uploaded to a purpose built RCC survey website, provided there is mobile coverage. This data is then downloaded and analysed by the RCC and then the RCC works with the Department of Environment and Conservation's GIS section to generate the Roadside Conservation Value Map

The methods to assess and calculate the conservation value of the roadside reserves for 2009 data are described in *Assessing Roadsides: A Guide for Rating Conservation Value* (Jackson, 2002) and explained in the pre-survey volunteer training session. The process involves scoring a set of pre-selected attributes, which when combined; represent a roadside's conservation status. The attributes for scoring were modified slightly in 2010 and are described below.

The following attributes were used to produce a quantitative measure of conservation value:

- the structure of native vegetation (eg. trees, shrubs, groundcovers)
- the extent of native vegetation (% of native vegetation)
- the approximate number of *different* native plant species (diversity)
- the degree of weed infestation (%)
- value as a biological corridor (eg. connects to other bushland areas, provides habitat or food for reptiles birds and other animals eg. hollow logs, tree hollows and flowering shrubs) (2009) and the
- adjoining land use (2009) eg. agriculture, bushland, plantation, urban
- habitat value (2010/11) – same as value as a biological corridor (2009) but also includes environmentally sensitive areas
- width of vegetated roadside (2010/11);

Each of these 6 attributes was given a score ranging from 0 to 2 points. Their combined scores provided a conservation value score ranging from 0 to 12. The conservation values, in the form of conservation status categories, are represented on the roadside conservation value map by the following colour codes.

Conservation Value	Conservation Status	Colour Code	
9 – 12	High	Bright Green	
7 – 8	Medium High	Pale Green	
5 – 6	Medium Low	Orange	
0 – 4	Low	Yellow	

The following attributes were also noted but did not contribute to the conservation value score:

- width of road reserve
- vegetation type
- tree decline
- environmentally sensitive areas
- revegetation
- clearing
- rabbits
- presence of utilities/disturbances;
- general comments; and
- presence and percentage of 6 nominated weeds;
- presence and percentage of additional weeds

It is felt that the recording of these attributes will provide a dataset capable of being used by a broad range of shire staff plus community and land management interests.

1.2 Mapping Roadside Conservation Values

The RCC produced a computer-generated map (using a Geographic Information System, or GIS), at a scale of 1:100,000 for the Shire of Capel. Known as the Roadside Conservation Value map (RCV map), it depicts the conservation status of the roadside vegetation on each side of the road and the width of the road reserves within the Shire of Capel. The data used to produce both the map and the following figures and tables are presented in Appendix 2. Road names and length information can be found in Appendix 3.

Digital information of remnant vegetation and watercourses on both Crown estate and privately owned land used in the map was obtained from the Department of Environment and Conservation (DEC), Main Roads WA and the Department of Agriculture and Food WA.

1.3 Roadside Conservation Value Categories

High conservation value roadsides are those with a score between 9 and 12, and generally display the following characteristics:

- intact natural structure consisting of a number of layers, i.e. ground, shrub, tree layers;
- extent of native vegetation greater than 70%, i.e. little or no disturbance;
- high diversity of native flora, i.e. greater than 20 different species;
- few weeds, i.e. less than 30% of the total plants; and
- high value as a biological corridor, i.e. may connect uncleared areas, contain flowering shrubs, tree hollows and/or hollow logs for habitat.



Hurst Rd

These high conservation value roadsides in Capel contain relatively intact, undisturbed and diverse remnant vegetation.

Photos K. Payne, RCC.



Woods Rd

Medium-high conservation value roadsides are those with a score between 7 and 8, and generally have the following characteristics:

- generally intact natural structure, with one layer disturbed or absent;
- extent of native vegetation between 30 and 70%;
- medium to high diversity of native flora, i.e. between 6 and 19 species;
- few to half weeds, i.e. between 30 and 70% of the total plants; and
- medium to high value as a biological corridor.



Medium-high conservation value roadsides contain a moderate number of native species, some disturbance and weed invasion, but have relatively intact natural structure.

Photos: K Payne, RCC.



Medium-low conservation value roadsides are those with a score between 5 and 6, and generally have the following characteristics:

- natural structure disturbed, i.e. one or more vegetation layers absent;
- extent of native vegetation between 30 and 70%;
- medium to low diversity of native flora, i.e. between 0 and 5 species;
- half to mostly weeds, i.e. between 30 and 70% of total plants; and
- medium to low value as a biological corridor.



Medium-low conservation value roadsides may contain Declared Rare Flora (DRF) or a Priority species.

Photos by RCC

Low conservation value roadsides are those with a score between 0 and 4, and generally have the following characteristics:

- no natural structure i.e. two or more vegetation layers absent;
- low extent of native vegetation, i.e. less than 30%;
- low diversity of native flora, i.e. between 0 and 5 different species;
- mostly weeds, i.e. more than 70% of total plants, or ground layer totally weeds; and
- low value as a biological corridor.



Low conservation value roadsides are typically dominated by weeds and have little or no native vegetation.

Photo by K. Jackson.



Low conservation value roadside in Capel. There is no vegetation in the actual roadside apart from mowed weeds.

Photo: K Payne

2.0 USING THE ROADSIDE CONSERVATION VALUE (RCV MAP)

The Roadside Conservation Value map (RCV map) initially provides an inventory of the condition of the roadside vegetation. This is important as the quality of roadside vegetation has far reaching implications for sustaining biodiversity, tourism and landcare values.

Moreover, the data and map can be incorporated as a management and planning tool for managing the roadsides, as it enables the condition of roadside vegetation to be easily assessed. This information can then be used to identify environmentally sensitive areas, high conservation roadsides or strategically important areas, and thus ensure their conservation. Conversely, it enables degraded areas to be identified as areas important for strategic rehabilitation or in need of specific management techniques or weed control programs.

The map can also be used as a reference to overlay transparencies of other information relevant to roadside conservation. This enables the roadside vegetation to be assessed in the context of its importance to the Shire's overall conservation network. Other overlays, such as the degree of weed infestation, or the location of environmentally sensitive areas or future planned developments, could also be produced as an aid to roadside management.

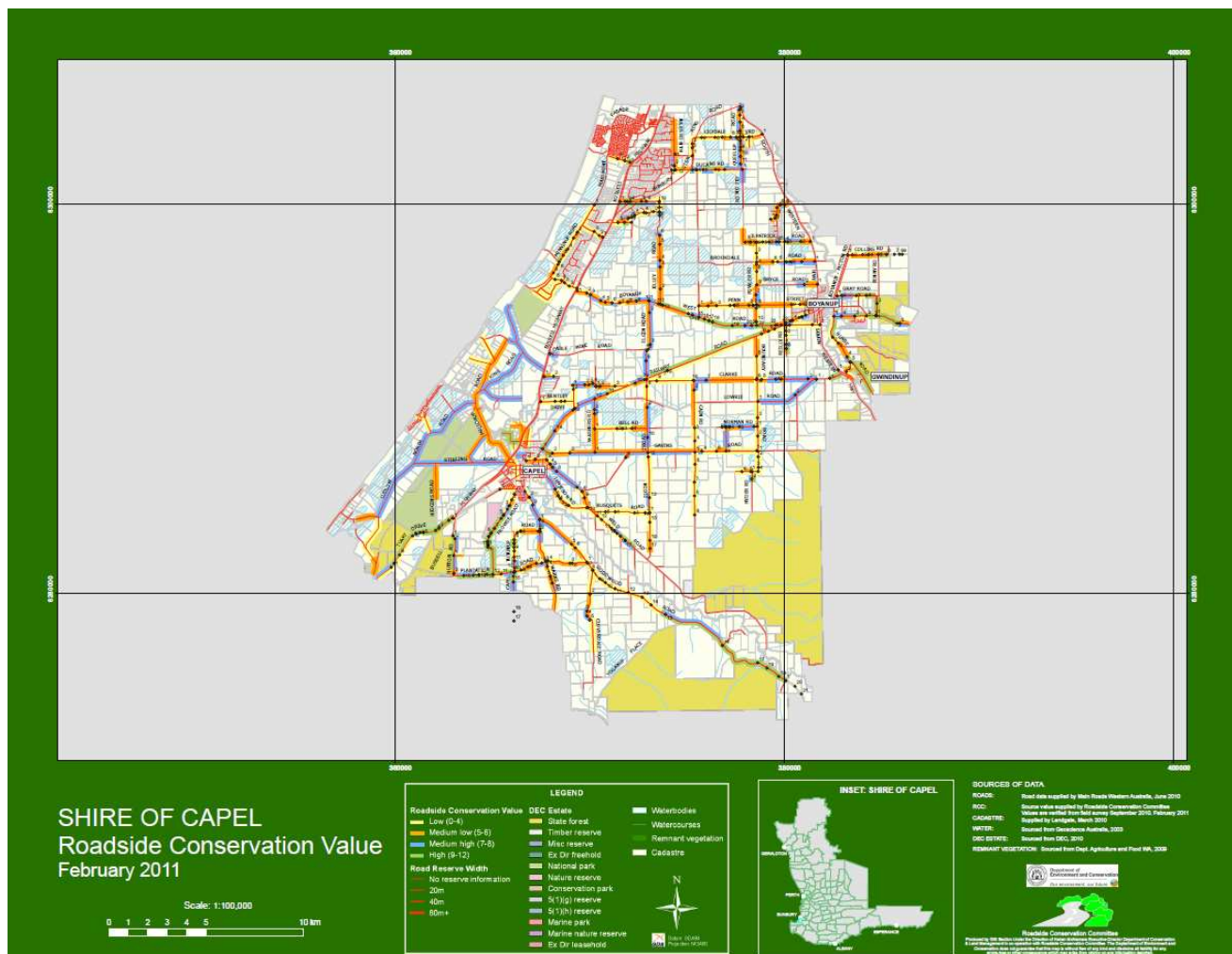


Figure 1. The RCV map depicts roadside conservation values in the Shire of Capel.

As well as providing a road reserve planning and management tool, the RCV map can also be used for developing:

- roadside vegetation management plans;
- Regional or District fire management plans;
- Landcare and/or Bushcare projects that would be able to incorporate the information from this survey into 'whole of' landscape projects; and
- tourist routes, i.e. roads depicted as high conservation value would provide visitors to the district with an insight to the flora of the district.



Catchment recovery projects, such as revegetation programs can utilise the information conveyed on roadside conservation value maps.

Photo by RCC



Weed control along a roadside.

Photo MRWA



The survey data and map can be used in developing regional or district fire management plans.

Photo by DEC



The road manager can declare high conservation value roads as Flora Roads.

Photo by D. Lamont.

3.0 RESULTS

Data collected during the Shire of Capel roadside survey has been compiled and a summary is presented (Table 2). Total kilometres and percentages of roadside occupied by each of the conservation status categories and the attributes used to calculate the conservation values is provided. As roadsides occur on both sides of the road, roadside distances (km) are equal to *twice* the actual distance of road travelled.

Summary Information: Shire of Capel					
Length of roadsides surveyed: 596.82km (298.41km of road)					
Roadside Conservation Status			Roadside Conservation Values		
	Total (km)	(%)	Score	Total (km)	(%)
Low (0-4)	205.91	35%	0	26.58	4%
Medium-low (5-6)	145.57	24%	1	40.46	7%
Medium-high (7-8)	161.91	27%	2	50.62	8%
High (9-12)	83.43	14%	3	46.73	8%
			4	41.52	7%
Total	596.82	100%	5	65.04	11%
			6	80.53	13%
			7	84.50	14%
			8	77.41	13%
			9	32.62	5%
			10	18.92	3%
			11	24.75	4%
			12	7.14	1%
			Total	596.82	100%
Native Vegetation in Roadsides			Width of Vegetated Roadside		
	Total (km)	(%)		Total (km)	(%)
0 vegetation layers	80.33	13%	1 to 5 m	568.8	95%
1 vegetation layer	187.12	31%	5 to 20 m	27.02	5%
2-3 vegetation layers	329.37	55%	Over 20 m	1	0%
Total	596.82	100%	Total	596.82	100%
Number of Native Plant Species			Extent of Native Vegetation		
	Total (km)	(%)		Total (km)	(%)
0 to 5 species	345.34	58%	Less than 30%	189.42	32%
6 to 19 species	213.3	36%	30% to 70%	333.91	56%
Over 20 species	38.18	6%	Over 70%	73.49	12%
Total	596.82	100%	Total	596.82	100%
Predominant Adjoining Land Use			Habitat Features		
	Total (km)	(%)		Total (km)	(%)
Agricultural: completely cleared	237.32	40%	0	148.48	25%
Drain reserve	0	0%	1	127.1	21%
Urban or Industrial	61.13	10%	2	152.84	26%
Other	1.84	0%	3 or more	168.4	28%
Plantation of non-natives	16.75	3%	Total	596.82	100%
Railway	17.4	3%			
Agricultural: scattered vegetation	197.64	33%			
Uncleared native vegetation	64.74	11%			
Total	596.82	100%			
Weed Infestation					
	Total (km)	(%)			
Heavy >70% weeds	137.87	23%			
Medium 30-70% weeds	222.37	37%			
Light <30% weeds	236.58	40%			
Total	596.82	100%			

Roadside surveys were carried out in the Shire of Capel

Width of Road Reserve

The width of road reserves in the Shire of Capel was recorded in increments of 20 metres (Table 3). The majority of road reserves were 20 metres in width, with 233.69km (78.31%) of roads falling into this category. Roadsides with a 40m reserve covered 9.17km (3.07%), whilst 0.3km (0.10%) of road reserves were 80 metres in width. There were no road reserves recorded with 60 meters in width. 55.25km (18.5%) of road reserves had unknown widths.

Width of Road Reserve - Capel		
	Total km	%
20 m	233.69	78.31
40 m	9.17	3.07
60 m	0	0
80 m	0.3	0.10
Unknown	55.25	18.51
Total	596.82	100.0

Table 3. Width of road reserves in the Shire of Capel

Width of Vegetated Road Reserve

The width of vegetated roadside was recorded by selecting one of three categories, 1-5 metres, 5-20 metres or over 20 metres in width. The left and right hand sides were recorded independently, and then combined to establish the total figures (Table 4). Approximately 95% (568.8km) of roadside vegetation was between 1 to 5 metres in width, followed by 28.02km (5%) of roadsides where the width of vegetation was between 5 to 20m. There was no roadside vegetation over 20m in width recorded during the roadside surveys.

Width of Vegetated Roadside - Capel		
	Total km	%
1-5 m	568.8	95
5-20 m	28.02	5
Over 20 m	0	0
Total	596.82	100.0

Table 4. Width of vegetation on roadsides in the Shire of Capel.

Native Vegetation Layers on Roadsides

The number of native vegetation layers present, i.e. tree, shrub and/or ground layers, determined the 'native vegetation on roadside' value. Sections with two to three layers of native vegetation covered 55% of roadsides (329.4km), 31% (187.1km) of roadsides had only one layer and 14% (80.3km) had no layers of native vegetation (Table 2 and Figure 2).

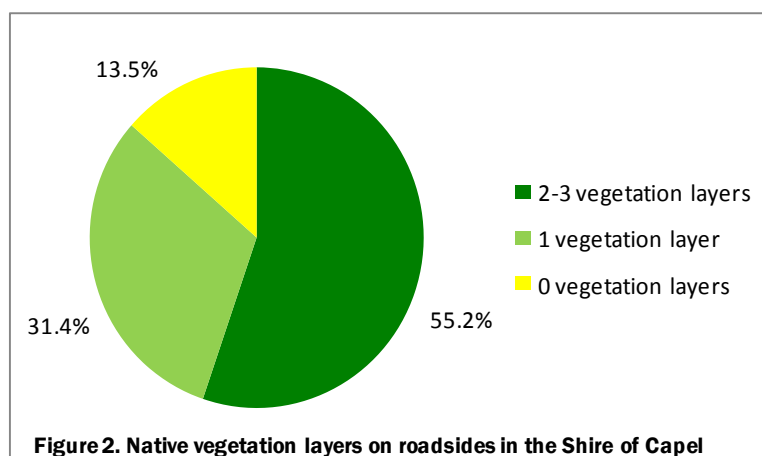


Figure 2. Native vegetation layers on roadsides in the Shire of Capel

Number of Native Plant Species

The 'number of native plant species' score provided a measure of the diversity of the roadside vegetation. Survey sections with over 20 plant species spanned 6.4% (38.1km) of the roadsides surveyed. Roadside sections with 6 to 19 plant species accounted for 35.7% (213.3km) of the roadside. In total, 57.9% (345.3km) contained less than 5 plant species (Table 2 and Figure 3).

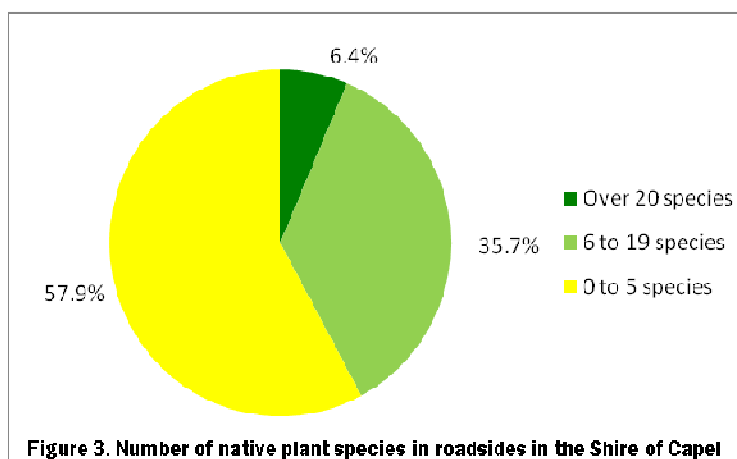


Figure 3. Number of native plant species in roadsides in the Shire of Capel

Extent of Native Vegetation

The 'extent of native vegetation cover' refers to the continuity of the roadside vegetation and takes into account the presence of disturbances such as weeds. Roadsides with extensive vegetation cover, i.e. greater than 70%, occurred along 12.3% (73.49km) of the roadsides surveyed. Survey sections with

medium vegetation cover, i.e. 30% to 70%, accounted for 55.9% (333.91km) of the roadsides. The remaining 31.7% (189.42km) had less than 30% native vegetation and therefore a low 'extent of native vegetation' value (Table 2 and Figure 4).

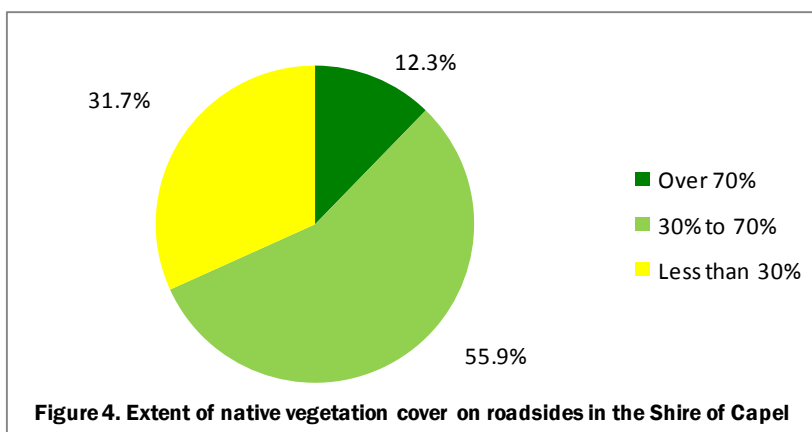


Figure 4. Extent of native vegetation cover on roadsides in the Shire of Capel

Habitat Features

This factor considered the presence of five attributes: connection of uncleared areas; presence of flowering shrubs; presence of large trees with hollows; presence of hollow logs and environmentally sensitive areas. Roadsides determined to have high number (more than 3 out of 5) of habitat

features were present along 28.2% (168.4km) of the roadsides surveyed. Roadsides with medium high number (2 out of 5) of habitat features made up 25.6% (152.84km), roadsides with medium low number (1 out of 5) of habitat features occurred along 21.3% (127.1km) of the roadsides surveyed and roadsides with low number, having no habitat features, were recorded along 24.9% (148.48km) (Table 2 and Figure 5).

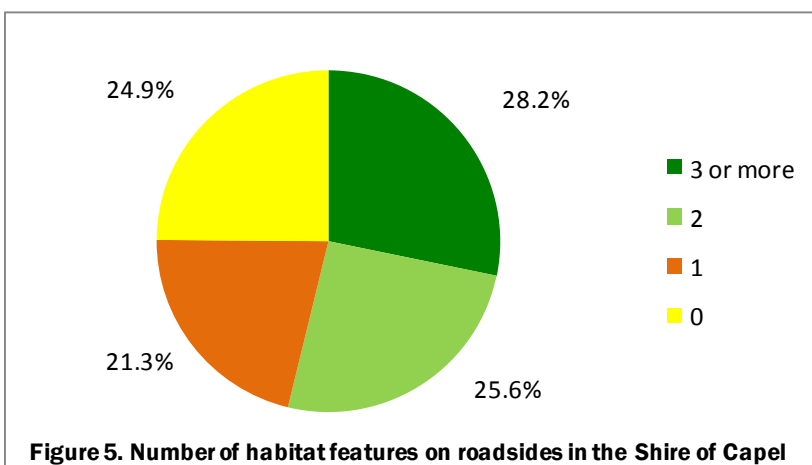


Figure 5. Number of habitat features on roadsides in the Shire of Capel

Weed Infestation

Light levels of weed infestation (weeds comprising less than 30% of total plants), were recorded on 39.6% (236.58km) of the roadsides surveyed, medium level weed infestation (weeds comprising 30-70% of the total plants) occurred on 37.3% (222.37km) of the roadsides and 23.1% of roadsides (137.87km) were heavily infested with weeds (weeds comprising more than 70% of the total plants) (Table 2 and Figure 6).

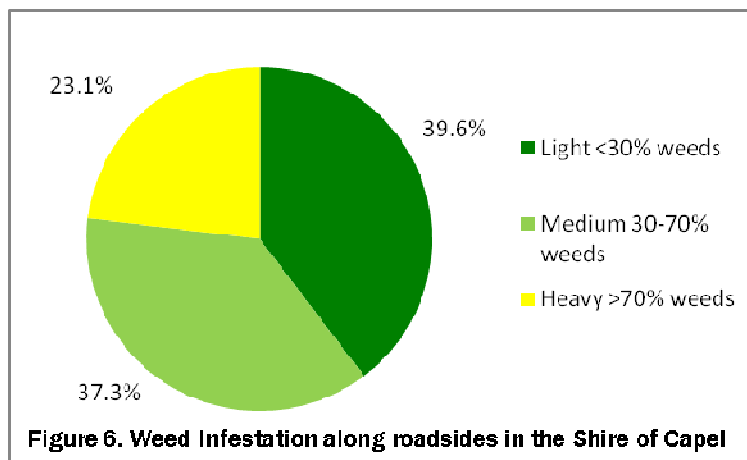


Figure 6. Weed Infestation along roadsides in the Shire of Capel

Predominant Adjoining Land Use

Uncleared native vegetation was present on 10.8% (64.74km) of the land adjoining roadsides, whilst 39.8% (237.3km) of roadsides adjoined land that had been completely cleared for agriculture. Land cleared for agriculture, containing a scattered distribution of native vegetation comprised 33.1% (197.64km) of the roadsides. Plantations of non-natives adjoined 2.8% (16.75km) of roadsides and Urban (Semi-urban) or Industrial (Mining) land uses adjoined 10.2% (61.13km) of roadsides. Drainage reserves adjoined 0% (0km) of roadsides and other Adjoining Land Uses were recorded along 0.3% (1.84km) of roadsides (Table 2 and Figure 7).

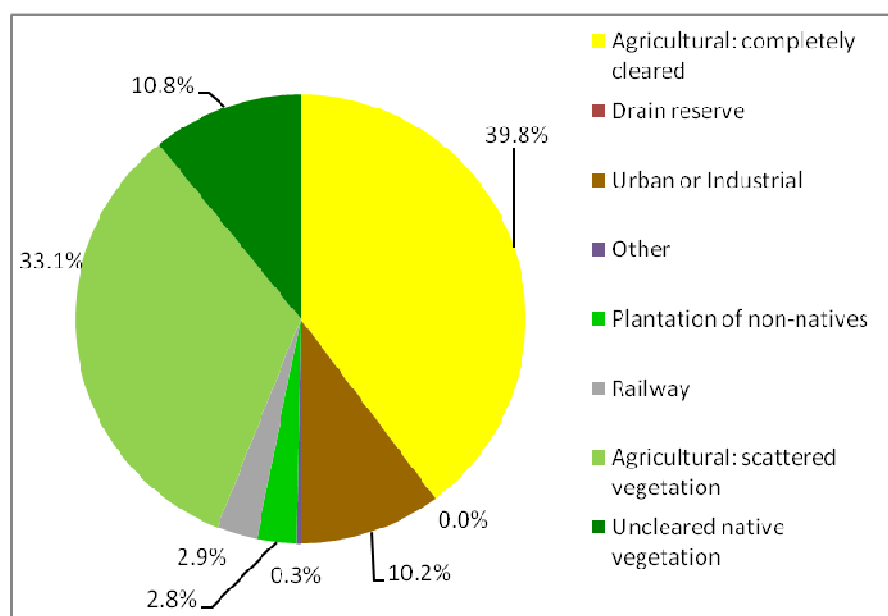


Figure 7. Adjoining land use in the Shire of Capel

Nominated Weeds

The following weeds are depicted on clear overlays accompanying the 2011 Roadside Conservation Value map:

- African Lovegrass (*Eragrostis curvula*);
- Cape Tulip (*Moraea sp.*);
- Apple of Sodom (*Solanum sodomaeum*);
- Arum Lily (*Zantedeschia aethiopica*);
- Thistles;
- Wild Radish (*Raphanus raphanistrum*)

Roadside populations of nominated weeds were recorded as being present in the road reserve, and were not recorded specifically for the left and/or right hand sides. Therefore, the occurrence of each weed (in kilometres) indicates the presence of the weed within the road reserve generally, and may need to be doubled where present on both sides of the road.

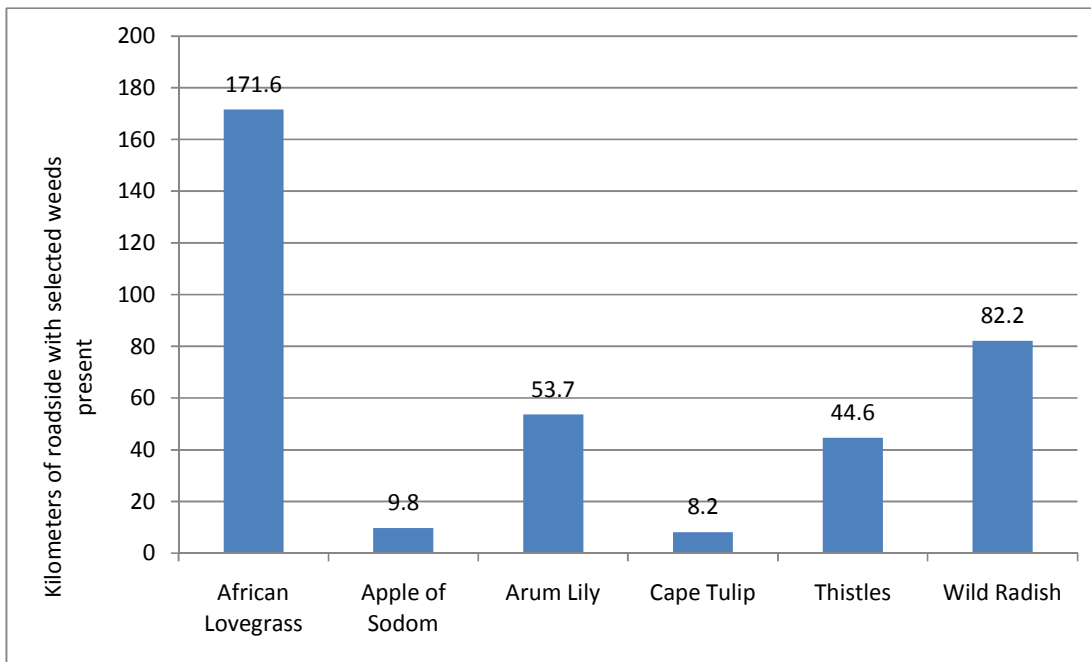


Figure 8. Presence of nominated weed groups along roads in the Shire of Capel

Of the nominated weeds species, African Lovegrass was the most prevalent, recorded along 171.6km of the roads surveyed. The next most commonly recorded weeds were Wild Radish and Arum Lily, recorded along 82.2km and 53.7km of roads respectively. Thistles were the next most commonly recorded weed, occurring along 44.6km of roads. Apple of Sodom and Cape Tulip were the least nominated weeds recorded along 9.8 and 8.2km of roads respectively (Figure 8).

Appendix 4 provides graphs of additional weeds recorded along roadsides (km) throughout 2009, 2010 and 2011 surveys.

Appendix 2 includes a combined spreadsheet showing all weeds recorded along roadsides during the surveys.

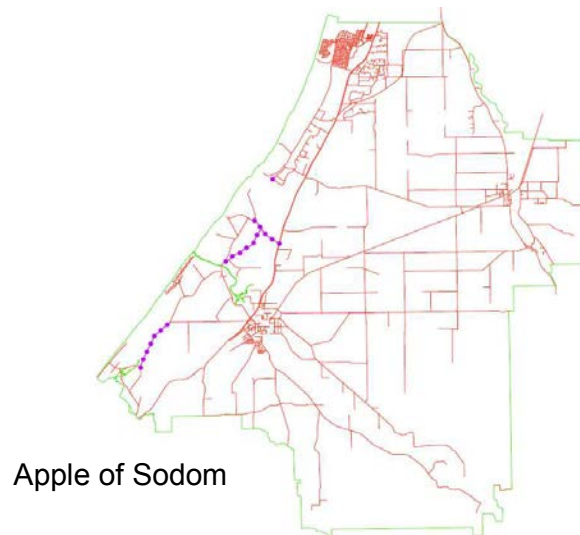
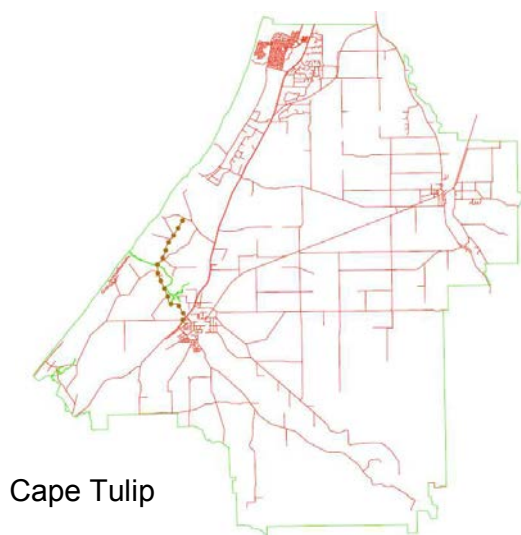
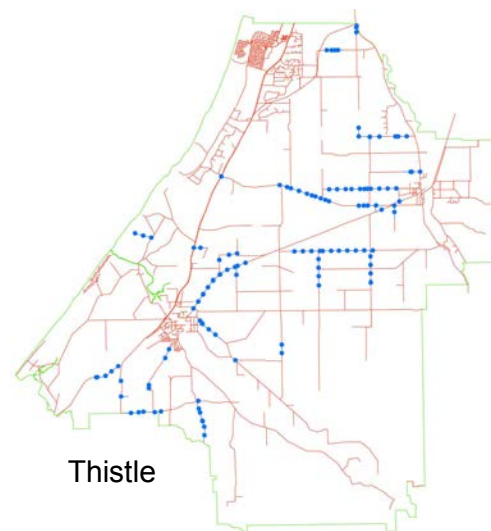
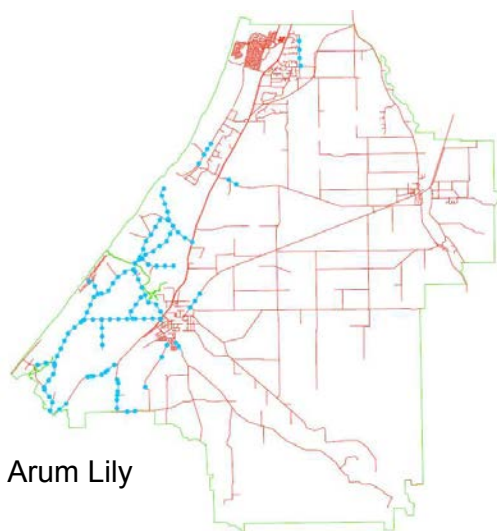
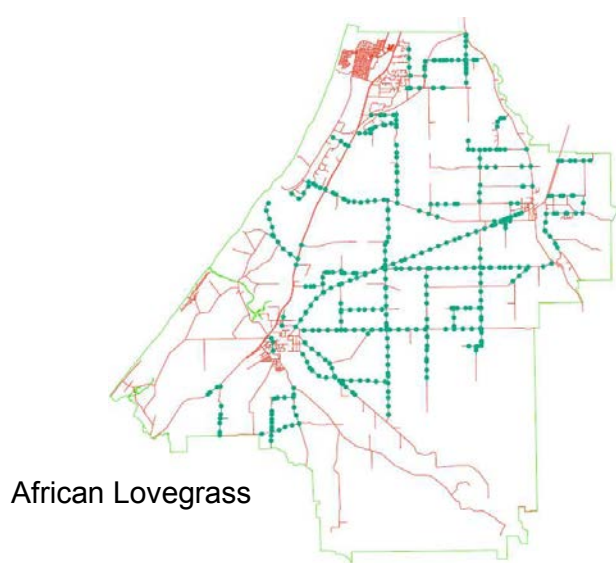


Figure 9. Spatial extent of nominated weeds on roadsides in the Shire of Capel

Conservation Value Scores

Conservation value scores were calculated for each section of roadside surveyed. Scores range from 0 to 12, from lowest to highest conservation value respectively (Figure 10). The most occurring roadside conservation value score was 7, with 84.5km of roadsides recording this score. Following this, a score of 6 was recorded along 80.5km of roadsides, a score of 8 covered 77.4km and a score of 5 was surveyed along 65km of roadsides. Roadsides with a score of 2 covered 50.6km, a score of 3 covered 46.7km, and roadsides with a score of 4 spanned 41.5km. Roadsides with a score of 1 spanned 40.5km, a score of 9 spanned 32.6km, roadsides scoring 0 covered 26.6km and a score of 11 spanned 24.8km. A score of 10 covered 18.9km and a score of 12 was recorded along 7.1km of roadsides.

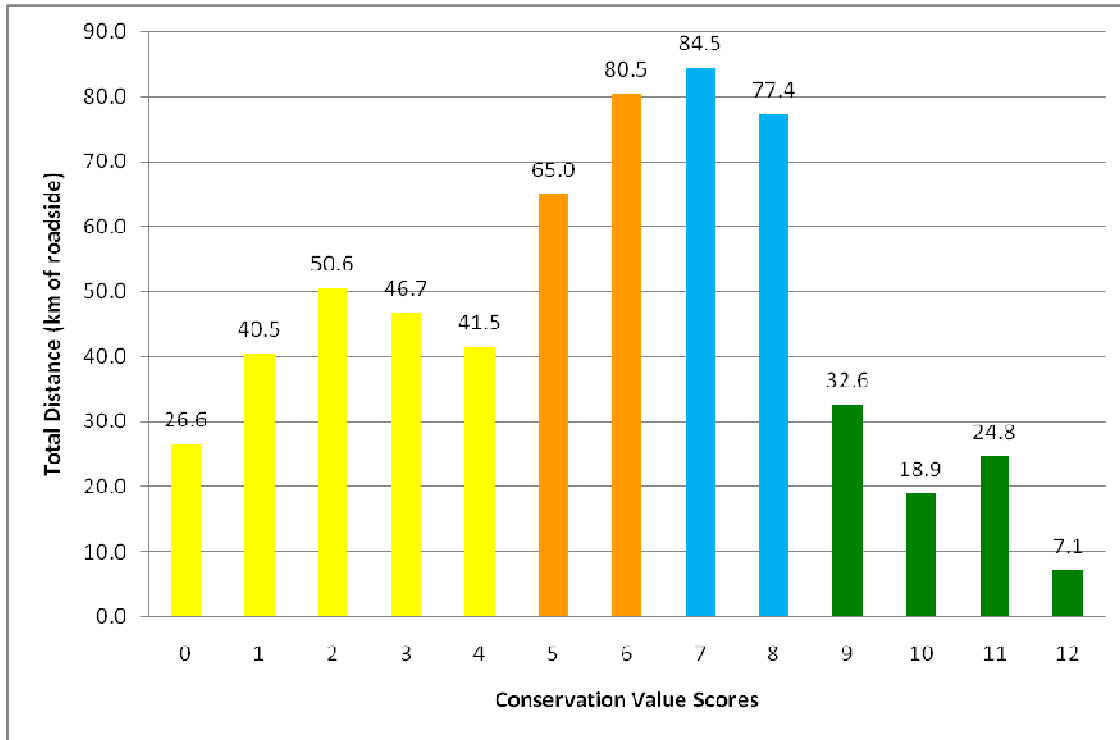


Figure 10. Conservation value scores of all roadsides surveyed in the Shire of Capel

Conservation Status

The conservation status category indicates the combined conservation value of roadsides surveyed in the Shire of Capel. Roadside sections of high conservation value covered 14.0% (83.4km) of the roadsides surveyed. Medium-high conservation value roadsides accounted for 27.1% of the total surveyed (161.9km), medium-low conservation roadside covered 24.4% (145.6km) of the total roadsides surveyed. Roadsides of low conservation value occupied 34.5% (205.9km) of the roadsides surveyed (Table 2 and Figure 11).

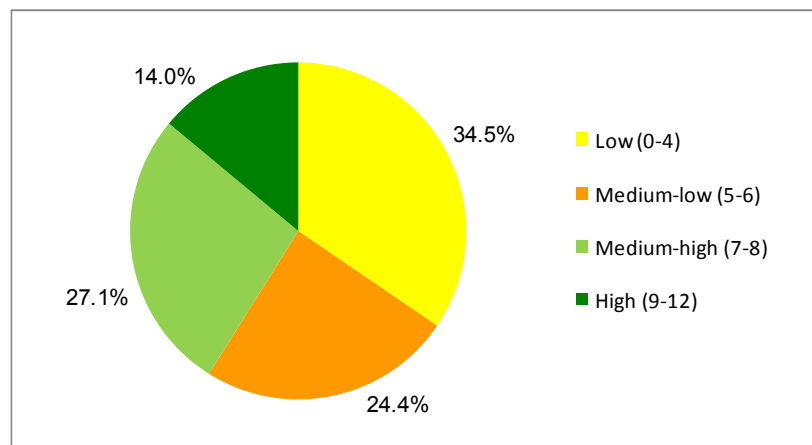


Figure 11. Conservation status of roadsides in the Shire of Capel

Flora Roads

A Flora Road is one which has special conservation value because of the vegetation contained within the road reserve. The Roadside Conservation Committee has prepared *Guidelines for the Nomination and Management of Flora Roads* (Appendix 8).

There are currently no Flora Roads in the Shire of Capel. The roadside survey and the 2011 RCV map highlighted a number of roadsides that have the potential to be declared as Flora Roads. Roadsides, or large sections of roadsides, determined as having high conservation value in the Shire of Capel include:

Prowse Road

Tuart Drive

Railway Road (Northern side)

Boyanup west Road (Eastern portion)

Hurst Road (Southern portion)

Goodwood Road (Southern portion)

If nominated, these roadsides would need to be assessed by the RCC to determine their suitability as Flora Roads as landscape, tourism, access and other factors, not just the roadside conservation value score, are taken into account.



PART D

ROADSIDE MANAGEMENT RECOMMENDATIONS

1.0 Management Recommendations

The primary aim of road management is the creation and maintenance of a safe, efficient road system. However, there are often important conservation values within the road reserve and thus this section provides general management procedures and recommendations that will assist in retaining and enhancing roadside conservation values.

The Executive Officer of the Roadside Conservation Committee is also available to provide assistance on all roadside conservation matters, and can be contacted on (08) 9334 0423. The following RCC publications provide guidelines and management recommendations that will assist Local Government Authorities:

- *Guidelines for Managing Special Environmental Areas in Transport Corridors*; and
- *Handbook of Environmental Practice for Road Construction and Maintenance Works*.

1.1 Protect high conservation value roadsides by maintaining and enhancing the native plant communities. This can be achieved by:

- retaining remnant vegetation;
- minimising disturbance to existing roadside vegetation;
- minimising disturbance to soil; and
- preventing or controlling the introduction of weeds.

1.2. Promote and raise awareness of the conservation value associated with roadside vegetation by:

- establishing a register of Shire roads important for conservation;
- declaring suitable roadsides as Flora Roads; and
- incorporating Flora Roads into tourist, wildflower and/or scenic drives.

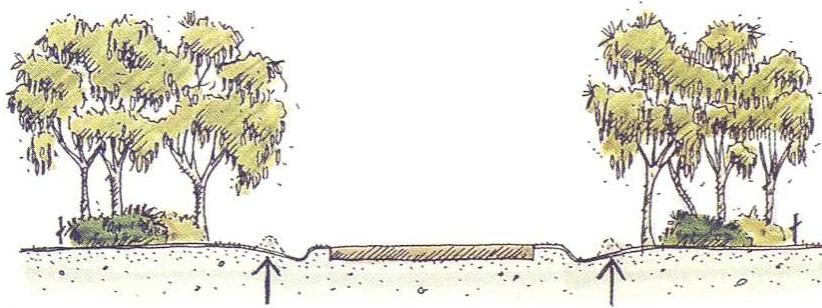
1.3 Improve roadside sections of medium to low conservation value by:

- minimising disturbance caused by machinery, adjoining land practices and incidences of fire;
- carrying out a targeted weed control program;
- retaining remnant trees and shrubs;
- allowing natural regeneration;
- spreading local native seed to encourage regeneration; and
- encouraging revegetation projects by adjacent landholders.

2.0 Minimising Disturbance

Minimal disturbance can be achieved by:

- adopting a road design that occupies the minimum space;
- diverting the line of a table drain to avoid disturbing valuable flora;
- pruning branches, rather than removing the whole tree or shrub;
- not dumping spoil on areas of native flora;
- applying the Fire Threat Assessment (see RCC Roadside Manual) before burning roadside vegetation, using methods other than fuel reduction burns to reduce fire threat;
- encouraging adjacent landholders to set back fences to allow roadside vegetation to proliferate;
- encouraging adjacent landholders to plant windbreaks or farm tree lots adjacent to roadside vegetation to create a denser windbreak or shelterbelt; and
- encouraging revegetation projects by adjacent landholders.

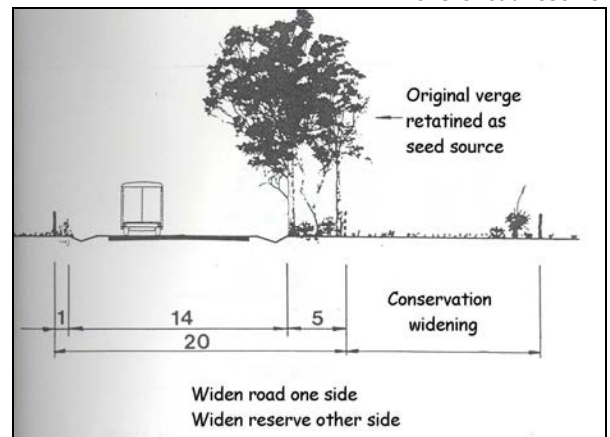


Avoid windrowing drain material into vegetation

Below right: Widening a road to one side only so that a wider section of roadside vegetation is retained on the other side of the road reserve.



Above: A high value road reserve in Tammin. The road was built on adjoining farmland in order to retain the important remnant bushland existing in the undeveloped road reserve.



3.0 Planning for Roadsides

The RCC is able to provide comprehensive models of Roadside Management Plans and encourages all Shires to adopt this practice of planning for roadside conservation.

The following actions greatly enhance the likelihood of a plan which changes behaviour and results in on-ground actions:

- Community support - encourage ongoing community involvement and commitment by establishing a local Roadside Advisory Committee or working group within the Shire Environmental Committee;
- Contract specifications - maintain roadside values by developing environmental specifications for inclusion in all tender documents or work practices;
- Community education - use of innovative and pertinent material can increase community understanding of roadside values; and
- Training - promote local roadside planning initiatives and gain acceptance and understanding by involving Shire staff, contractors, utility provider staff and the community in workshops, seminars or training days. The Roadside Conservation Committee can provide this training.

Training develops recognition and understanding of roadside values and highlights best work practices. Workshops are developed to ensure that local issues and environments are dealt with and they include site visits to high conservation remnants, current projects and works. For training enquiries please contact the RCC Executive Officer on (08) 9334 0423.

4.0 Setting Objectives

The objective of all roadside management should be to:

- | | |
|--|--|
| <ul style="list-style-type: none">▪ Protect<ul style="list-style-type: none">- native vegetation- rare or threatened flora or fauna- cultural and heritage values- community assets from fire▪ Maintain<ul style="list-style-type: none">- safe function of the road- native vegetation communities- fauna habitats and corridors- visual amenity and landscape qualities- water quality | <ul style="list-style-type: none">▪ Minimise<ul style="list-style-type: none">- land degradation- spread of weeds and vermin- spread of soil borne pathogens- risk and impact of fire- disturbance during installation and maintenance of service assets▪ Enhance<ul style="list-style-type: none">- indigenous vegetation communities- fauna habitats and corridors |
|--|--|

References

- Beeston G, Mlodawski G, Saunders A and True D. (1993, unpub.). *Remnant Vegetation Inventory in the Southern Agricultural Areas of Western Australia*. Western Australian Department of Agriculture, South Perth.
- Department of Agriculture and Food W.A. (2011, unpub.). Geographic Information Services. *Current Extent of Native Vegetation statistics*.
- Department of Agriculture WA for Department of Environment (2003), Salinity Investment Framework Department Interim Report – Phase 1, 2003, Department of Environment, Salinity and Land Use Impacts Series No. SLUI 32.
- Department of Agriculture WA (2005), Salinity in Western Australia, http://www.agric.wa.gov.au/PC_92418.html?s=1494475657. Accessed June, July, and September 2010.
- Department of Environment and Conservation. (2007-2010). *NatureMap: Mapping Western Australia's Biodiversity*. <http://naturemap.dec.wa.gov.au>. Accessed January, February 2011.
- Department of Environment and Conservation. (2011). *Phytophthora dieback*; About Phytophthora dieback. <http://www.dec.wa.gov.au/content/view/5729/2305/> Accessed January 2011
- Department of Environment and Conservation, Western Australian Herbarium, *FloraBase* www.florabase.dec.wa.gov.au Accessed January, February 2011.
- Department of Environment and Conservation, DEFL database (2011, unpublished). *Declared Rare Flora and Priority flora on roadsides statistics*.
- Department of Environment and Conservation (2008). *Declared Rare Flora and Road Maintenance*.
- Department of Environment and Heritage and the Department of Agriculture, Fisheries and Forestry Australia (2003), *Natural Heritage Trust- The Journal of the Natural Heritage Trust* Summer 2003, No 14. Department of Environment and Heritage and the Department of Agriculture, Fisheries and Forestry Australia, Canberra, Australia.
- Environment Australia (2001), *National Objectives and Targets for Biodiversity Conservation 2001-2005*. Environment Australia, Canberra, Australia.
- Peter Gardiner, Geographic Information Systems, DAFWA. JobN#2010271 (unpub). Figures created using Land Monitor (2009 release), Landgate Road Centreline (2008), Landgate LGA (2009) and DAFWA vegetation extent (2009) spatial datasets.
- Jackson KA (2002), *Assessing Roadsides A Guide to Rating Conservation Value*, Roadside Conservation Committee, Kensington, Western Australia
- Lamont DA and Blyth JD (1995), Roadside corridors and community networks, pp 425-35. In *Nature Conservation 4: The Role of Networks*, ed by Saunders, D.A., Craig J.L., and Mattiske E.M. Surrey Beatty & Sons, 1995.
- Lamont DA (1998), *Western Australian Roadside Handbook: Environmental guidelines for road construction and maintenance workers*. Roadside Conservation Committee, Kensington, Western Australia.
- Lamont DA and Atkins K (2000), *Guidelines for Managing Special Environmental Areas in Transport Corridors*. Roadside Conservation Committee, Kensington, Western Australia.
- Lloyd S (2004) *Gardennote: Bulb and corm-producing plants that become bushland weeds*, June 2004, No. 16, Department of Agriculture WA.

Platt SJ and Lowe KW (2002), Biodiversity Action Planning: Action planning for native biodiversity at multiple scales – catchment, bioregional, landscape, local. Department of Natural Resources and Environment, Melbourne.

Roadside Conservation Committee. (1990), *Roadside Manual* Roadside Conservation Committee, Como WA.

Shepherd DP, Beeston GR and Hopkins AJM (2001), *Native Vegetation in Western Australia, Technical Report 249*, Department of Agriculture, Western Australia, South Perth.

Smith, Josh (2008, unpub.). Native Vegetation by type Summary Statistics. Adapted from: Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), *Native Vegetation in Western Australia. Technical Report 249*. Department of Agriculture Western Australia.

Appendix

1

ROADSIDE CONSERVATION VALUE (RCV) SURVEY PROGRAM

Handheld Devices

START TAB

RCC Survey Setup

Observer: Driver:

Road Name:

Start Location/Intersection:

Shire:

Road Reserve Width:

Direction:

Cmps:

Select the blue text and type in or select the name of the observer and repeat with the driver..

Enter Tripmeter as 0.0 (zero the car tripmeter) at the start of each new road. Select ok

Enter the road name and start location/ intersection using the qwerty keyboard

QWERTY keyboard

Select the name of the shire from the drop down menu

Select the road reserve width from the drop down menu

Type in the Direction you are travelling in or use the compass

LEFT AND RIGHT TAB

Left observations

Adjoining Land Use

Vegetation Width

Vegetation Type

Native Vegetation %

Native Species Qty

General Weeds %

Tree Decline

Right observations

Adjoining Land Use

Vegetation Width

Vegetation Type

Native Vegetation %

Native Species Qty

General Weeds %

Tree Decline

Select each category and from the drop down menus select each option which best describes the category.

Select either yes or no.

Fill out the right tab the same as for the left OR select copy from left if it's the same and change individual categories.

Copy from left: Right observations

WEED TAB

Weed observations

African Love Grass

Red Watsonia

Sweet Pittosporum

Sydney Golden Wattle

Tayloria

Victorian Tea Tree

Select the amount of weed observed

None Present

0 - 30%

30 - 70%

70 - 100%

Finished Tab

Select Additional Weeds

Select the additional weed from the drop down menu and then the amount present

FINISH TAB

Complete Survey

Tripmeter End:

Road Name:

End Location/Intersection:

New Section

New Road

Finish and Logout

Question: Do you wish to copy the answers from this survey to the new Section?

Yes No Cancel

A photo of the road or specific plants can be taken using the camera button

Comments can be entered using the QWERTY keyboard

Enter end Tripmeter, use the car tripmeter for the measurement.

Enter the road name and End location/ intersection using the qwerty keyboard

Select New section if the survey on the same road changes (min 200 m) Select New road if a new road is being surveyed Select Finish and Logout if the survey is complete.

Selected options for the survey can be copied into a new section.

Select the option from the menu that appears after Finish and Logout has been chosen.

Switch off the device once data has been

Appendix

2

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Allenville rd	2060193	1	0.69	1.09	0.4	N			0	0	1	0	0	0	1	1	2	2	0	0	3	4	African Lovegrass	Wild Oat Fleabane Veldt Grass Dock	couch stinkwort hastiest rd finish
Allenville rd	2060193	2	1.09	1.29	0.2	N	mine rd		0	0	0	0	0	0	1	0	1	0	0	0	0	2	African Lovegrass	Wild Oat Fleabane Veldt Grass Dock	couch stinkwort
Allenville rd	2060193	3	1.29	1.59	0.3	N	Lilydale rd		0	0	0	0	0	0	0	0	1	0	0	0	0	1	African Lovegrass	Wild Oat Fleabane Veldt Grass Dock	couch stinkwort windmill oldmine rd
Armstrong	2060230	1	0	0.4	0.4	W	gray/jo shua creek		0	0	1	2	1	0	2	2	2	2	3	3	9	9	African Lovegrass	Veldt Grass Wild Pines	rd off to right just past 0.3
Armstrong	2060230	2	0.4	1	0.6	W			0	0	0	2	0	1	2	2	0	2	0	3	2	10	African Lovegrass	Eastn States Euc Species	banksia grandis on right subdivisio n large blocks w lots of veg
Armstrong	2060230	3	1	1.7	0.7	W			0	0	1	2	0	1	2	2	1	1	1	2	5	8	African Lovegrass	Eastn States Euc Species	joshua creek subdivisio n large blocks w lots of veg
Armstrong	2060230	4	1.7	2.1	0.4	W			0	0	1	2	1	1	2	2	2	1	2	2	8	8	African Lovegrass	Kikuyu	hurrt rd finish
Bell rd	2060057	1	0	1.1	1.1	E	Washers		0	0	0	0	0	0	1	1	1	1	0	0	2	2	African Lovegrass	Kikuyu Soursob Veldt Grass Capeweed Ann Veldt Grs	vetch
Bell rd	2060057	2	1.1	1.4	0.3	E			0	0	0	0	0	0	1	1	1	0	0	0	2	1		Kikuyu Capeweed Soursob	vetch
Bell rd	2060057	3	1.4	1.9	0.5	E			0	0	0	0	0	0	1	1	1	1	0	0	2	2	African Lovegrass	Kikuyu Capeweed Soursob Ann Veldt Grs Veldt Grass	
Bell rd	2060057	4	1.9	2.7	0.8	E			0	0	1	1	0	0	2	2	2	2	1	1	6	6	African Lovegrass	Ann Veldt Grs Wild Pines Kikuyu	elgin rd finish

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Bentley	2060288	1	0	0.7	0.7	E	bussell hwy		0	0	0	0	0	0	0	0	0	0	0	0	0	0		Ann. Grass Wild Oat Veldt Grass Sowthistle Dock Kikuyu	brome heaps vetch minesite rehab adj luse left
Bentley	2060288	2	0.7	1	0.3	E			0	0	1	0	0	0	0	0	1	1	1	0	3	1	African Lovegrass	Ann.Grass Wild Oat Veldt Grass Eastern States Wattles	minesite &rehab adj luse lft couch
Bentley	2060288	3	1	1.2	0.2	E			0	0	1	0	0	0	0	0	2	1	1	0	4	1	African Lovegrass	Ann. Grass Wild Oat Veldt Grass Eastern States Wattles Kikuyu Tagasaste	brome
Bentley	2060288	4	1.2	1.6	0.4	E			0	0	0	0	0	0	0	0	1	0	1	0	2	0	African Lovegrass	Ann. Grass Wild Oat Veldt Grass Kikuyu Stink Wort	brome, couch melaleuca on left
Boundary	2060004	1	0	0.7	0.7	N	Gavins		0	0	0	0	0	0	1	1	1	1	1	1	3	3	African Lovegrass	Kikuyu	fleabane
Boundary	2060004	2	0.7	1.7	1	N			0	0	0	0	0	0	1	1	1	1	0	1	2	3	African Lovegrass	Kikuyu Ann Veldt Grs Soursob	
Boundary	2060004	3	1.7	3.7	2	N			0	0	0	0	0	0	1	1	2	1	1	0	4	2	African Lovegrass Thistle Wild Radish	Kikuyu Ann Veldt Grs Tagasaste	
Boundary	2060004	4	3.7	4.9	1.2	N	Clarke		0	0	0	0	0	0	1	1	1	0	0	0	2	1	African Lovegrass Wild Radish	Kikuyu Wild Oat Soursob Ann Veldt Grs	nightshade
Boundary	2060004	5	4.9	5.9	1	N			0	0	1	1	0	0	2	2	2	2	1	1	6	6		Kikuyu Wild Oat Soursob Ann Veldt Grs	fumitory
Boyanup rd west	2060294	1	0	0.5	0.5	E	bussell hwy		0	0	1	1	0	0	1	2	1	1	0	1	3	5	Thistle	Kikuyu Wild Oat Fumitory Capeweed Fleabane Ann Veldt Grs	?can weed, brome, purple vetch

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Boyanup rd west	2060294	2	0.5	0.7	0.2	E			0	0	1	1	0	0	1	2	1	1	0	1	3	5	African Lovegrass	Kikuyu Wild Oat Fumitory Ann Veldt Grs	brome, purple vetch roselands rd end
Boyanup rd west	2060294	3	0.7	1.3	0.6	E	Roselands		0	0	1	1	0	0	2	2	2	2	1	3	6	8	African Lovegrass Arum Lily	Kikuyu Wild Oat Fumitory Ann Veldt Grs Veldt Grass Freesia	brome, purple vetch, roselands rd end 1.0culvet 1.2 drf
Boyanup rd west	2060294	4	1.3	1.56	0.26	E			0	0	1	1	1	0	2	1	2	2	1	2	7	6	African Lovegrass	Wild Oat Veldt Grass Freesia	
Boyanup rd west	2060294	5	1.56	1.9	0.34	E			0	0	1	1	0	0	2	2	1	1	2	2	6	6	African Lovegrass Wild Radish	Wild Oat Veldt Grass Freesia Ann Veldt Grs Nightshade Fumitory	1.8 culvet, couch
Boyanup rd west	2060294	6	1.9	2.3	0.4	E			0	0	0	2	0	0	1	2	1	1	1	2	3	7	African Lovegrass Wild Radish	Wild Oat Veldt Grass	blowfly grass couch
Boyanup rd west	2060294	7	2.3	2.72	0.42	E			0	0	1	0	0	0	1	2	1	1	2	0	5	3	African Lovegrass Wild Radish	Wild Oat Veldt Grass Capeweed Kikuyu Soursob	couch brome vetch dock like veldt sample
Boyanup rd west	2060294	8	2.72	3.16	0.44	E			0	0	1	1	0	0	1	2	2	1	2	1	6	5	African Lovegrass Wild Radish	Wild Oat Veldt Grass Kikuyu Soursob Ann Veldt Grs Bulb	couch brome vetch 3.1weedy patch strathern church left
Boyanup rd west	2060294	9	3.16	3.8	0.64	E	strathern old town		0	0	1	1	0	1	1	2	2	1	3	1	7	6	African Lovegrass	Wild Oat Veldt Grass Kikuyu Soursob Ann Veldt Grs Bulb couch, brome, vetch	weeds spry 3.35 old house site on left, lots weeds Ixia & thick bulb wds (old house town site) elginrd end

Survey of Roadside Conservation Values in the Shire of Capel

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Boyanup rd west	2060294	10	3.8	4.3	0.5	E	Elgin rd		0	0	1	1	0	1	1	2	2	2	3	2	7	8	Thistle	Wild Oat Veldt Grass Kikuyu Fleabane	couch brome vetch
Boyanup rd west	2060294	11	4.3	4.54	0.24	E	Elgin rd		0	0	0	0	0	0	1	2	2	2	3	2	6	6	Thistle	Wild Oat Veldt Grass Kikuyu Fleabane Bulb	couch, rye grass brome vetch jilley rd 4.45
Boyanup rd west	2060294	12	4.54	5.92	1.38	E	Jilley rd		1	0	1	1	1	0	1	2	2	1	3	1	9	5	Thistle	Wild Oat Kikuyu Veldt Grass Bulb Ann Veldt Grs Sowthistle	brome vetch ixia
Boyanup rd west	2060294	13	5.92	6.15	0.23	E			0	0	1	2	0	1	1	2	1	2	1	2	4	9	African Lovegrass Thistle	Wild Oat Veldt Grass Capeweed	brome vetch erodium
Boyanup rd west	2060294	14	6.15	6.5	0.35	E			0	0	1	2	1	1	2	2	2	2	2	2	8	9	Thistle	Wild Oat Veldt Grass Capeweed Ann Veldt Grs	skippings rd
Boyanup rd west	2060294	15	6.5	6.8	0.3	E	Skippings		0	0	1	2	0	1	2	2	2	2	2	2	7	9	African Lovegrass Thistle	Wild Oat Veldt Grass Ann Veldt Grs Kikuyu Freesia	brome vetch
Boyanup rd west	2060294	16	6.8	7.05	0.25	E			0	0	1	2	0	1	1	2	1	2	3	3	6	10	Thistle	Wild Oat Veldt Grass Ann Veldt Grs Freesia Kikuyu Bulb	brome, vetch large pepmints both sds garlic patch on left 6.93
Boyanup rd west	2060294	17	7.05	7.23	0.18	E			0	0	2	1	1	1	2	2	2	2	3	3	10	9	African Lovegrass Thistle	Wild Oat Freesia Kikuyu Bulb Bridal Creeper Veldt Grass	lge pepp- mints bth sds&eucs flatweed on right
Boyanup rd west	2060294	18	7.23	8.2	0.97	E			0	0	2	2	1	1	2	2	2	2	3	3	10	10		Wild Oat Freesia Kikuyu Bridal Creeper Ann Veldt Grs Veldt Grass	pepmints both sds & eucs flatweed, 7.74 brack- en fern

Survey of Roadside Conservation Values in the Shire of Capel

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Boyanup rd west	2060294	19	8.2	8.95	0.75	E			0	0	2	2	1	1	2	2	2	2	3	3	10	10		Wild Oat Freesia Ann Veldt Grs Fumitory Kikuyu	large peppmints both sds & eucs, flatweed vetch
Boyanup rd west	2060294	20	8.95	9.26	0.31	E			0	0	2	2	0	1	2	2	1	1	3	2	8	8	Thistle	Wild Oat Ann Veldt Grs Fumitory Kikuyu Dock	vetch melaleuca planted all same size both sides
Boyanup rd west	2060294	21	9.26	9.5	0.24	E			0	0	2	2	1	1	2	2	1	1	3	2	9	8	Thistle	Wild Oat Ann Veldt Grs Kikuyu Dock Freesia Fumitory	vetch, brome melaleuca planted all same sz both sides fowler rd
Boyanup rd west	2060294	22	9.5	10.5	1	E	Fowler		0	0	2	2	1	1	2	2	2	2	3	3	10	10	Thistle	Wild Oat Ann Veldt Grs Freesia Kikuyu Bridal Creeper	peacock rd 9.8 brome right owner cows feeding in rd res 10.1
Boyanup rd west	2060294	23	10.5	10.88	0.38	E			0	0	0	1	1	1	2	2	1	1	1	2	5	7	African Lovegrass	Wild Oat Ann Veldt Grs Freesia Fumitory	railway rd
Brookdale	2060066	1	0.52	1.12	0.6	W	sw hway		0	0	1	1	0	0	2	2	1	1	3	2	7	6	African Lovegrass	Ann Grasses Wild Oat Veldt Grass	oxalis - four oclock,
Brookdale	2060066	2	1.12	1.72	0.6	W			0	0	1	1	1	1	2	2	1	1	2	1	7	6		Veldt Grass	
Brookdale	2060066	3	1.72	1.92	0.2	W			0	0	1	0	1	0	2	1	1	0	2	0	7	1		Veldt Grass Capeweed Ann Grasses Kikuyu	pine plant on right, rye grass
Brookdale	2060066	4	1.92	2.42	0.5	W			0	0	1	1	0	0	2	1	2	1	2	1	7	4		Veldt Grass Ann Grasses Kikuyu Wild Oat	
Brookdale	2060066	5	2.42	2.62	0.2	W			0	0	0	1	0	0	1	1	0	1	0	1	1	4		Veldt Grass Ann Grasses Kikuyu Wild Oat Eastern Sts Euc Sps	

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Brookdale	2060066	6	2.62	3.42	0.8	W			0	0	1	1	0	0	2	1	1	1	1	2	5	5	African Lovegrass	Veldt Grass Wild Oat Capeweed Kikuyu	melaleuca end fowler rd lots of lovegrass at crossrd
Bryce rd	2060076	1	0	0.6	0.6	W	sw hwy		0	0	1	0	1	1	2	2	1	1	1	1	6	5	African Lovegrass Thistle	Wild Oat Veldt Grass Nightshade Fleabane Kikuyu	couch
Bryce rd	2060076	2	0.6	1.1	0.5	W			0	0	1	0	1	1	2	2	1	1	2	3	7	7	African Lovegrass Thistle	Wild Oat Veldt Grass Nightshade Fleabane Kikuyu couch	becomes a track at start of section no dieback on this rd
Busquet	2060041	1	0	0.2	0.2	W	Elgin		0	0	0	0	0	0	1	0	1	0	1	0	3	0	African Lovegrass Thistle	Annual Veldt Grass Kikuyu	mostly annual grasses
Busquet	2060041	2	0.2	0.7	0.5	W	Elgin		0	0	0	0	0	0	1	0	1	1	1	0	3	1	African Lovegrass Wild Radish	Ann Veldt Grs Wild Oat	mostly ann grss guildford grass
Busquet	2060041	3	0.7	1.7	1	W	Elgin		0	0	0	0	0	0	1	0	1	1	0	0	2	1	African Lovegrass	Ann Veldt Grs Wild Oat Capeweed Kikuyu	mostly ann grss guildford grass
Busquet	2060041	4	1.7	2.2	0.5	W			0	0	0	0	0	0	1	0	1	1	0	0	2	1	African Lovegrass Wild Radish	Ann Veldt Grs Wild Oat Kikuyu	guildford grass
Busquet	2060041	5	2.2	2.9	0.7	W			0	0	0	0	0	0	1	0	1	1	0	0	2	1	African Lovegrass Wild Radish	Ann Veldt Grs Kikuyu	guildford grass ann grss
Cable Mine rd	2060015	1	0	0.5	0.5	E	Bussell hwy		0	0	1	1	0	0	2	2	2	2	2	2	7	7	African Lovegrass	Ann Grass Wild Oat Veldt Grass Ann Veldt Grs Kikuyu Fumitory plantain, blowfly grs, brome	1st 0.1km melaleuca shrubs both sides then Euc rudis? marri cross bridge 0.3 melaleuca gate end entry to mine

Survey of Roadside Conservation Values in the Shire of Capel

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Cain rd	2060023	1	0	0.5	0.5	S			0	0	1	1	1	0	2	2	2	2	2	1	8	6		Soursob Capeweed Ann Veldt Grs	
Cain rd	2060023	2	0.5	2.4	1.9	S			0	0	1	1	0	0	1	1	1	2	0	1	3	5	African Lovegrass Thistle	Kikuyu Ann Veldt Grs Soursob	
Cain rd	2060023	3	2.4	3.1	0.7	S			0	0	0	0	0	0	0	0	0	1	0	0	0	1		Kikuyu	
Cain rd	2060023	4	3.1	3.6	0.5	S		Gavin	0	0	0	1	0	0	1	2	2	1	1	0	4	4	African Lovegrass	Ann Veldt Grs Kikuyu Soursob	Intersection end Gavins
Cain rd	2060023	5	3.6	4.2	0.6	S	Gavin		0	0	0	0	0	0	1	1	1	1	0	0	2	2	African Lovegrass		ann grss fleabane
Cain rd	2060023	6	4.2	5	0.8	S			0	0	0	0	0	0	1	1	1	1	0	0	2	2	African Lovegrass		row of blue gums other side of fence ann grass, has been sprayed
Cain rd	2060023	7	5	5.7	0.7	S			0	0	0	0	0	0	1	1	1	1	0	0	2	2	African Lovegrass		ann grss has been sprayed, burnt rhs
Cain rd	2060023	8	5.7	6.7	1	S			0	0	0	0	0	0	1	0	1	0	0	0	2	0	African Lovegrass	Capeweed Soursob	ann grss has been sprayed burnt rhs
Cain rd	2060023	9	6.7	7.1	0.4	S			0	0	0	0	0	0	1	1	0	0	0	0	1	1	African Lovegrass		was a mine site small rehab lhs
Calinup	2060264	1	0	0.34	0.34	W	sand quarry		0	0	1	2	0	2	2	2	1	2	1	2	5	10	African Lovegrass	Veldt Grass Wild Oat Capeweed	
Calinup	2060264	2	0.34	0.69	0.35	W	before brock way		0	0	0	0	0	0	1	1	0	1	0	2	1	4	African Lovegrass	Veldt Grass Wild Oat Capeweed, Brome	Gero cam weed? bracken fern
Calinup	2060264	3	0.69	1	0.31	W	after brock way		0	0	1	0	1	0	1	1	1	1	2	1	6	3	African Lovegrass	Veldt Grass Wild Oat Capeweed Sowthistle Tagasaste	Gero cam weed? bracken fern, brome
Capel Tutunup rd	2060014	1	0	0.4	0.4	S			0	0	1	1	1	1	2	2	1	1	2	2	7	7	African Lovegrass	Wild Oat Kikuyu	windmill plantain

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Capel Tutunup rd	2060014	2	0.4	0.6	0.2	S	Good wood		0	0	0	0	0	0	0	0	0	0	0	0	0	0	African Lovegrass	Wild Oat Kikuyu Fleabane	windmill plantain
Capel Tutunup rd	2060014	3	0.6	1.5	0.9	S			0	0	1	1	0	0	1	1	1	1	2	2	5	5	African Lovegrass	Wild Oat Kikuyu Fleabane Veldt Grass Nightshade	plantain pelargonium couch
Capel Tutunup rd	2060014	4	1.5	1.7	0.2	S			0	0	0	1	0	0	0	1	0	1	0	1	0	4	African Lovegrass	Wild Oat Fleabane Veldt Grass Nightshade	plantain pelargonium couch
Capel Tutunup rd	2060014	5	1.7	2.1	0.4	S			0	0	0	0	0	0	0	0	0	0	0	0	0	0	African Lovegrass	Wild Oat Fleabane Nightshade Veldt Grass	couch plantain
Capel Tutunup rd	2060014	6	2.1	2.3	0.2	S			0	0	2	2	2	2	2	2	2	2	2	2	10	10		Wild Oat Veldt Grass Pelargonium Couch Plantain	Veg type spearwood melaleuca
Capel Tutunup rd	2060014	7	2.3	2.5	0.2	S			0	0	0	1	0	1	1	2	1	2	1	3	3	9		Wild Oat Veldt Grass	
Capel Tutunup rd	2060014	8	2.5	2.7	0.2	S			0	0	0	0	0	0	1	0	1	0	0	0	2	0	African Lovegrass	Wild Oat Veldt Grass Fleabane	nightshade
Capel Tutunup rd	2060014	9	2.7	3	0.3	S			0	0	0	0	0	0	1	1	1	1	0	0	2	2	African Lovegrass	Veldt Grass Fleabane Wild Oat Kikuyu	nightshade
Capel Tutunup rd	2060014	10	3	3.2	0.2	S			0	0	0	1	0	0	2	2	1	2	1	1	4	6	African Lovegrass	Veldt Grass Fleabane Wild Oat Kikuyu	
Capel Tutunup rd	2060014	11	3.2	3.5	0.3	S			0	0	1	1	1	1	2	2	2	2	2	2	8	8	African Lovegrass	Veldt Grass Fleabane Wild Oat	
Capel Tutunup rd	2060014	12	3.5	3.7	0.2	S			0	0	2	0	2	0	2	2	2	0	2	0	10	2	African Lovegrass	Veldt Grass Fleabane Wild Oat	plantation rd end
Capel Tutunup rd	2060014	13	3.7	4	0.3	S	Plantation rd		0	0	2	2	2	2	2	2	2	2	2	2	10	10	African Lovegrass	Veldt Grass Fleabane	
Capel Tutunup rd	2060014	14	4	4.3	0.3	S	Plantation rd		0	0	2	2	2	2	2	2	2	2	2	2	10	10	African Lovegrass	Veldt Grass Fleabane	

Survey of Roadside Conservation Values in the Shire of Capel

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments	
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R				
Capel Tutunup rd	2060014	15	4.3	5.8	1.5	S	Plantation rd		0	0	1	1	1	1	1	2	2	2	2	2	2	7	8	African Lovegrass	Veldt Grass Kikuyu Fleabane Wild Oat Dock	couch night-shade
Capel Tutunup rd	2060014	16	5.8	6.3	0.5	S	Plantation rd		0	0	1	1	1	1	1	2	2	2	2	2	2	7	8	African Lovegrass	Veldt Grass Kikuyu Fleabane Wild Oat	couch night-shade
Capel Tutunup rd	2060014	17	6.3	6.4	0.1	S	Plantation rd		0	0	2	0	1	0	2	1	2	1	2	1	9	3	African Lovegrass	Veldt Grass Kikuyu Fleabane Wild Oat couch nightshade	end at downs rd outside shire boundary	
Chislehurst ave	2060369	1	0	1.1	1.1	S	Fishermans	forest turn cmr			0	0	0	0	0	0	0	0	1	1	1	1	Wild Radish	capeweed lupins onion weed	Weeds scattered L R all along	
Chislehurst ave	2060369	2	1.1	3.05	1.95	N	Tatton rd	Fishermans			0	0	0	0	0	0	0	0	0	0	0	0	African Lovegrass		wild radish capeweed	
Clapp	2060291	1	0	0.1	0.1	N	Vicker y	Matt hews	0	0	1	2	1	1	2	2	2	1	2	2	8	8	African Lovegrass	Wild Oat Veldt Grass Ann Grass	blowfly grass	
Clarke	2060010	1	0	0.2	0.2	W	Lowrie		0	0	1	1	0	0	2	2	2	1	2	1	7	5		Kikuyu		
Clarke	2060010	2	0.2	1.6	1.4	W			0	0	1	1	0	0	2	2	2	2	2	2	7	7	African Lovegrass	Kikuyu Soursob Ann Veldt Grs Freesia Watsonia		
Clarke	2060010	3	1.6	1.9	0.3	W			0	0	0	0	0	0	1	1	2	2	2	2	5	5	African Lovegrass	Kikuyu		
Clarke	2060010	4	1.9	2.5	0.6	W			0	0	1	1	1	1	2	2	2	2	2	2	8	8	African Lovegrass	Kikuyu Watsonia Ann Veldt Grs		
Clarke	2060010	5	2.5	2.9	0.4	W			0	0	0	1	0	0	1	0	2	0	2	1	5	2	African Lovegrass Wild Radish	Ann Veldt Grs Wild Oat	boundary rd end	
Clarke	2060010	6	2.9	5.5	2.6	W	Boundary		0	0	1	1	0	0	1	2	2	1	2	1	6	5	African Lovegrass Thistle	Ann Veldt Grs Wild Oat Kikuyu Blue Lupin East States Wattles & Euc Sps		

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Clarke	2060010	7	5.5	6.2	0.7	W			0	0	1	1	0	0	2	2	2	2	2	2	7	7	African Lovegrass Thistle	Capeweed Soursob Ann Veldt Grs	
Clarke	2060010	8	6.2	8.1	1.9	W	Cain		0	0	1	1	0	0	1	1	1	1	1	1	4	4	African Lovegrass Thistle	Ann Veldt Grs Kikuyu Capeweed Bridal Creeper Soursob	
Clarke	2060010	9	8.1	8.6	0.5	W			0	0	0	0	0	0	1	0	1	0	0	0	2	0	African Lovegrass Wild Radish	Ann Veldt Grs Kikuyu Soursob	elgin rd end
Cloverdale rd	2060013	1	0	1.1	1.1	S	Good wood		0	0	0	0	0	2	2	1	0	0	0	0	2	3		Capeweed Wild Oat Brome Rye grass	mined on rhs ,some planted trees on lft
Cloverdale rd	2060013	2	1.1	2	0.9	S			0	0	1	1	0	2	1	1	1	1	1	1	4	6		Wild Oat Kikuyu Ann Veldt Grs Dock	
Cloverdale rd	2060013	3	2	2.3	0.3	S			0	0	1	2	0	2	2	2	1	1	1	1	5	8		Wild Oat Kikuyu Annual Veldt Grass Dock	
Cloverdale rd	2060013	4	2.3	2.6	0.3	S			0	0	1	2	0	2	2	2	1	1	1	1	5	8		Wild Oat Ann Veldt Grs Dock Veldt Grass	
Cloverdale rd	2060013	5	2.6	4.4	1.8	S	bend in rd mine rd		0	0	0	0	0	0	1	2	0	0	0	0	1	2		Wild Oat Ann Veldt Grs Dock Veldt Grass Blue Lupin Capeweed	brome mine revg left outside rd reserve dairy farm end of rd
Collins	2060064	1	0	0.2	0.2	E	Boyanu p picton rd		1	1	0	0	0	0	0	0	0	0	0	0	1	1	African Lovegrass Wild Radish	Wild Oat Watsonia	brome
Collins	2060064	2	0.2	0.7	0.5	E			1	1	0	1	0	0	1	1	1	1	0	1	3	5	African Lovegrass Wild Radish	Wild Oat Watsonia	brome
Collins	2060064	3	0.7	1	0.3	E			1	1	1	1	0	0	1	1	1	1	0	1	4	5	African Lovegrass	Wild Oat Ann Veldt Grs Grass Bulb	
Collins	2060064	4	1	1.5	0.5	E			1	1	1	1	0	0	1	1	1	1	1	1	5	5	African Lovegrass	Wild Oat Annl Grass Veldt Grass Bulb Capeweed	mine reveg 1.3

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Collins	2060064	5	1.5	1.9	0.4	E			1	1	1	1	0	0	1	2	1	2	1	3	5	9	African Lovegrass	Wild Oat Veldt Grass Eastn States Euc Sps	mine reveg interspersed all along
Collins	2060064	6	1.9	2.3	0.4	E			1	1	2	2	2	1	2	2	2	2	3	3	12	11	African Lovegrass	Wild Oat Veldt Grass	twomey rd 2.0 lots of grass trees on left
Collins	2060064	7	2.3	2.6	0.3	E			1	1	2	2	2	1	2	2	2	2	3	3	12	11	African Lovegrass	Wild Oat Veldt Grass	
Collins	2060064	8	2.6	2.8	0.2	E			1	1	1	1	1	1	2	2	2	2	2	2	9	9	African Lovegrass	Wild Oat Veldt Grass Blue Lupin Eastn States Euc Sps	mine rehab area
Collins	2060064	9	2.8	3	0.2	E			1	1	2	2	2	1	2	2	2	2	3	3	12	11	African Lovegrass	Wild Oat Veldt Grass	mine rehab left 2.8
Doungup	2060033	1	0	1.4	1.4	West	Mallokup rd	end of road	0	0	0	0	0	0	0	0	0	0	0	0	1	1	Wild Radish		mostly grass except nr malloakup rd onion weeds
Ducane	2060189	1	1.6	1.8	0.2	E			0	0	0	1	0	0	1	2	1	1	1	0	3	4			couch
Ducane	2060189	2	1.8	2.6	0.8	E	Jules rd		0	0	1	0	0	0	1	1	1	0	2	0	5	1	African Lovegrass	Veldt Grass Wild Oat	couch
Ducane	2060189	3	2.6	2.8	0.2	E	Jules rd	Ken bells	0	0	2	1	2	1	2	2	2	1	3	2	11	7	African Lovegrass	Veldt Grass Wild Oat Kikuyu	couch plantain
Ducane	2060189	4	2.8	3.2	0.4	E	Ken bells rd		0	0	2	0	1	0	2	1	2	0	1	0	8	1		Veldt Grass Wild Oat Kikuyu	couch
Ducane	2060189	5	3.2	3.8	0.6	E			0	0	2	1	1	1	2	2	2	1	2	2	9	7		Veldt Grass Wild Oat Kikuyu	couch furry weeds
Ducane	2060189	6	3.8	4.3	0.5	E			0	0	0	0	0	0	2	1	2	0	1	0	5	1	African Lovegrass	Veldt Grass Wild Oat Kikuyu	couch
Ducane	2060189	7	4.3	5.1	0.8	E			0	0	1	1	1	1	2	1	2	0	1	0	7	3	African Lovegrass	Veldt Grass Wild Oat	couch melaleuca on left dieback

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Edwards rd	2060074	1	0	1.19	1.19	West	Mallok up rd	End of road	0	0	0	0	0	0	0	0	0	0	0	0	2	2	Wild Radish Thistle	marshmellow, nightshe dock	wild radish all along thistles bad; verge full of weeds danger to adjacent farmland
Elgin	2060006	7	3.92	4.22	0.3	S	Railway		0	0	0	0	0	0	1	0	0	0	0	0	1	0	African Lovegrass	Ann Veldt Grs Wild Oat Soursob Kikuyu Capeweed	
Elgin	2060006	8	4.22	5.32	1.1	S			0	0	0	0	0	0	2	2	1	1	0	0	3	3	African Lovegrass Wild Radish	Ann Veldt Grs Kikuyu Capeweed Blue Lupin	
Elgin	2060006	9	5.32	6.92	1.6	S			0	0	1	1	1	0	2	2	2	2	1	1	7	6	African Lovegrass	Ann Veldt Grs Kikuyu Veldt Grass Soursob	
Elgin	2060006	10	6.92	7.62	0.7	S			0	0	1	1	1	1	2	2	2	2	2	2	8	8	African Lovegrass	Ann Veldt Grs Kikuyu Veldt Grass Soursob Watsonia	pink tape - clearing? finish at gavins rd
Elgin	2060006	1	0	0.6	0.6	S			0	0	1	1	1	0	2	1	2	2	2	2	8	6	African Lovegrass	Ann Veldt Grs Wild Oat Kikuyu Ann Grass	large melaleuca trees both sides brome lots rye grass on left
Elgin	2060006	2	0.6	2.2	1.6	S			0	0	1	1	1	0	2	1	2	2	2	2	8	6	African Lovegrass	Ann Veldt Grs Wild Oat Eastn States Wattles Kikuyu Ann Grass	planted trees left 19.5 brome couch sprayed on left rye grass
Elgin	2060006	3	2.2	2.51	0.31	S			0	0	0	0	1	0	2	0	2	0	2	0	7	0	African Lovegrass	Ann Veldt Grs Wild Oat Capeweed	mint weed samples (stagger weed)

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Elgin	2060006	4	2.51	2.7	0.19	S			0	0	0	1	0	0	1	2	0	2	0	2	1	7	African Lovegrass	Ann Veldt Grs Wild Oat	weeds sprayed B4 nichols on right no veg
Elgin	2060006	5	2.7	3.1	0.4	S			0	0	1	1	1	0	2	2	2	2	2	2	8	7	African Lovegrass	Ann Veldt Grs Wild Oat Brome	weeds sprayed
Elgin	2060006	6	3.1	3.92	0.82	S			0	0	1	1	1	1	1	1	2	2	2	2	7	7	African Lovegrass	Soursob Kikuyu Ann Veldt Grs Bridal Creeper Dock	ixia yellow flwr brdge over drain 0.3
Elgin	2060006	11	7.62	7.82	0.2	S	Gavin		0	0	0	0	0	0	1	1	0	0	0	0	1	1	African Lovegrass	Ann Veldt Grs Kikuyu	
Elgin	2060006	12	7.82	9.92	2.1	S	Gavin		0	0	0	0	0	0	1	1	1	1	0	0	2	2	African Lovegrass	Ann Veldt Grs Kikuyu	bulbs onion weed left vetch end of section, mostly annual weeds, kingias
Elgin	2060006	13	9.92	10.62	0.7	S			0	0	1	1	0	0	1	1	1	2	1	3	4	7	African Lovegrass Thistle	Ann Veldt Grs Kikuyu Soursob	mostly annual weeds, kingias
Elgin	2060006	14	10.62	11.02	0.4	S	Busquet		0	0	0	0	0	0	1	1	1	1	0	0	2	2	African Lovegrass	Ann Veldt Grs Veldt Grass Capeweed Soursob	annual grasses
Elgin	2060006	15	11.02	11.92	0.9	S			0	0	1	1	0	0	1	1	1	1	1	1	4	4	African Lovegrass	Ann Veldt Grs Veldt Grass Soursob	annual grasses
Elgin	2060006	16	11.92	12.42	0.5	S			0	0	0	1	0	0	1	1	1	2	0	2	2	6	African Lovegrass	Ann Veldt Grs Veldt Grass Soursob	annual grasses
Elgin	2060006	17	12.42	13.02	0.6	S			0	0	1	1	0	0	1	1	2	2	2	2	6	6	African Lovegrass	Ann Veldt Grs Veldt Grass Wild Oat	annual grasses
Fishermans	2060035	1	0	0.3	0.3	W	Bussetl hwy		0	0	1	0	0	0	1	1	2	2	0	0	4	3	African Lovegrass	Wild Oat Fleabane Veldt Grass	couch plantain stinkweed evening primrose

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Fishermans	2060035	2	0.3	0.6	0.3	W	Bussell hwy		0	0	0	0	0	0	1	0	1	1	0	0	2	1	African Lovegrass	Wild Oat Fleabane Nightshade	couch plantain stinkwort
Fishermans	2060035	3	0.6	0.8	0.2	W	Bussell hwy		0	0	0	0	0	0	0	0	0	1	0	0	0	1	African Lovegrass	Wild Oat Fleabane Nightshade	couch
Fishermans	2060035	4	0.8	1.1	0.3	W	Chislehurst		0	0	0	1	0	0	0	0	1	2	0	0	1	3	African Lovegrass	Wild Oat Fleabane Nightshade	couch
Fishermans	2060035	5	1.1	1.4	0.3	W			0	0	1	1	0	0	0	0	1	2	0	0	2	3	African Lovegrass	Wild Oat Fleabane Nightshade	couch peppermint
Forrest beach road	2060029	1	0	1.16	1.16	South	beach park north	beach bitumen	0	0	1	1	1	1	1	1	1	1	1	1	5	5	Arum Lily		arum lily R scattered onion weed 0.2
Fowler	2060022	1	0	0.5	0.5	S	Kilpatrick		0	0	1	1	0	0	1	1	1	1	1	1	4	4	African Lovegrass Thistle	Wild Oat Ann Veldt Grass Blue Lupin, Veldt Grass, Dock Fleabane Brome	melaleuca veg both sides sorrel pelagium Flatweed
Fowler	2060022	2	0.5	1	0.5	S			0	0	1	0	0	0	1	0	1	0	1	0	4	0	African Lovegrass	Wild Oat Veldt Grass Kikuyu couch	brome flatweed sorrel ryegrass
Fowler	2060022	3	1	1.1	0.1	S	Brookdale		0	0	0	0	0	0	0	0	0	0	0	0	0	0	African Lovegrass	Veldt Grass Wild Oat	couch
Fowler	2060022	4	1.1	1.4	0.3	S	Brookdale		0	0	1	1	0	0	1	2	1	1	2	2	5	6		Veldt Grass Wild Oat	Couch bracken flat melaleuca
Fowler	2060022	5	1.4	2.1	0.7	S			0	0	0	0	0	0	0	0	0	1	0	0	0	1		Veldt Grass Wild Oat , Eastern States Euc sps Capeweed	couch lots right & left Euc camel dulensis right
Fowler	2060022	6	2.1	2.6	0.5	S	bend in road dog leg		0	0	1	0	0	0	2	0	1	1	2	1	6	2	African Lovegrass	Veldt Grass Wild Oat, Eastern States Euc sps Capeweed Bulb	brome couch, melaleucas on left
Fowler	2060022	7	2.6	3.1	0.5	S			0	0	1	1	0	0	2	2	2	1	2	1	7	5	African Lovegrass	Veldt Grass Wild Oat Capeweed Annual Grass Blue Lupin	brome, couch, pennistone

Survey of Roadside Conservation Values in the Shire of Capel

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments	
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R				
Fowler	2060022	8	3.1	3.3	0.2	S			0	0	1	1	0	0	2	2	2	2	2	2	7	7	African Lovegrass	Veldt Grass Wild Oat Annl Grass Kikuyu	brome, couch, vetch, melaleucas	
Fowler	2060022	9	3.3	4	0.7	S			0	0	0	1	0	0	0	2	0	1	0	1	0	5		Wild Oat Annl Grass Kikuyu	brome, couch, vetch,	
Fowler	2060022	10	4	4.2	0.2	S			0	0	0	1	0	0	1	2	1	1	0	1	2	5		Wild Oat Annl Grass Kikuyu	boyanup west rd end, brome, couch	
Froome		1	0	0.5	0.5	E	Hutton	no thru rd ends @ farm	0	0	1	0	0	0	1	1	1	1	0	0	3	2	African Lovegrass Arum Lily Thistle	Wild Oat Capeweed flatweed brome, ryegrass	clover <i>Trifolium campestre</i> (hop clover), <i>Lotus uliginous</i> (greater birdsfoot trefoil)	
Gavins rd	2060003	1	0	0.5	0.5	W	railway		0	0	1	1	1	1	2	2	2	2	3	3	9	9	Wild Radish	Ann Veldt Grs Capeweed Blue Lupin		
Gavins rd	2060003	2	0.5	1.4	0.9	W			0	0	0	1	0	1	1	2	0	1	0	1	1	6		African Lovegrass Wild Radish	Ann Veldt Grs Capeweed Kikuyu Soursob	tree decline unknown salt 1.4
Gavins rd	2060003	3	1.4	8.3	6.9	W			0	0	1	1	0	1	1	2	2	2	1	2	5	8	African Lovegrass Wild Radish	Kikuyu Watsonia Soursob Capeweed Ann Veldt Grs	3.4-3.9 sparse	
Gavins rd	2060003	4	8.3	9	0.7	W	past Cain rd		0	0	0	0	0	0	1	2	0	1	0	0	1	3		Wild Radish	Kikuyu Ann Veldt Grs	dock
Gavins rd	2060003	5	9	9.5	0.5	W			0	0	0	0	0	0	2	2	2	1	1	1	5	4	African Lovegrass Wild Radish	Kikuyu Ann Veldt Grs Watsonia		
Gavins rd	2060003	6	9.5	11.2	1.7	W	Gynud up	boundary rd	0	0	0	0	0	0	1	1	1	1	1	1	3	3	African Lovegrass Wild Radish	Kikuyu Ann Veldt Grs Watsonia	dock paspalum	
Gibson	2060053	1	0	0.21	0.21	W	Good ward		0	0	2	2	2	2	2	2	2	2	3	3	11	11		Capeweed	no thru rd ironstone valley orchard	

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Goodwood	M42	1	2.46	2.76	0.3	SE	just after spur on bend		0	0	0	1	0	1	0	1	1	2	1	2	2	7	Arum Lily	Veldt Grass Soursoob Ann Veldt Grs Wild Oat Capeweed	Goodward estate
Goodwood	M42	2	2.76	3.26	0.5	SE	gooward estate rd		0	0	1	0	0	0	2	0	2	0	2	0	7	0	Arum Lily	Veldt Grass Soursoob Ann Veldt Grs Wild Oat Capeweed Tagasaste	brome. couch
Goodwood	M42	3	3.26	4.06	0.8	SE		Capel Tutenup rd	0	0	2	1	0	0	2	2	2	2	2	2	8	7		Veldt Grass Soursoob Ann Veldt Grs Wild Oat Capeweed Tagasaste	brome. couch prickly pear
Goodwood	M42	4	4.06	6.06	2	SE	Capel Tutenup		0	0	1	1	0	0	1	2	2	2	2	2	6	7	Wild Radish	Veldt Grass Soursoob Ann Veldt Grs Wild Oat Capeweed Tagasaste	few grass trees brome
Goodwood	M42	5	6.06	6.36	0.3	SE			0	0	1	0	0	0	1	1	2	0	1	0	5	1	Wild Radish	Veldt Grass Soursoob Ann Veldt Grs Wild Oat Capeweed Kikuyu	white daisy (ursinia)
Goodwood	M42	6	6.36	7.36	1	SE		plantation rd	0	0	0	1	0	0	1	1	2	2	1	1	4	5	Wild Radish	Veldt Grass Soursoob Ann Veldt Grs Wild Oat Capeweed Kikuyu	
Goodwood	M42	7	7.36	7.76	0.4	SE	Plantation	cloverdale rd	0	0	0	0	0	0	1	1	1	1	1	1	3	3	Wild Radish	Veldt Grass Soursoob Ann Veldt Grs Wild Oat Capeweed Kikuyu	
Goodwood	M42	8	7.76	8.36	0.6	SE	Cloverdale		0	0	0	1	0	0	1	1	1	1	1	1	3	4	Wild Radish	Veldt Grass Soursoob Ann Veldt Grs Wild Oat Capeweed Kikuyu	

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Goodwood	M42	9	8.36	8.66	0.3	SE			0	0	0	0	0	0	0	1	0	0	0	0	0	1		Veldt Grass Soursob Ann Veldt Grs Wild Oat Capeweed Kikuyu	
Goodwood	M42	10	8.66	9.26	0.6	SE			0	0	0	1	0	0	0	1	0	1	0	0	0	3		Veldt Grass Soursob Ann Veldt Grs Wild Oat Capeweed Kikuyu	new fence being erected left inside rd reserve
Goodwood	M42	11	9.26	9.96	0.7	SE			0	0	0	1	0	0	0	1	0	1	0	0	0	3		Veldt Grass Soursob Ann Veldt Grs Wild Oat Capeweed Kikuyu	doyle rd finish
Goodwood	M42	12	9.96	10.66	0.7	SE	Doyle		0	0	0	0	0	0	0	1	0	0	0	0	0	1		Veldt Grass Ann Veldt Grs Wild Oat Capeweed Blue Lupin Dock	rye grass
Goodwood	M42	13	10.66	11.26	0.6	SE			0	0	0	0	0	0	1	1	1	0	0	0	2	1		Veldt Grass Ann Veldt Grs Wild Oat Capeweed Blue Lupin Dock	rye grass
Goodwood	M42	14	11.26	12.16	0.9	SE			0	0	0	1	0	0	1	2	1	1	0	0	2	4		Veldt Grass Ann Veldt Grs Wild Oat, Dock Capeweed Blue Lupin	rye grass
Goodwood	M42	15	12.16	15.56	3.4	SE			0	0	1	1	0	1	2	2	2	2	3	3	8	9	Wild Radish	Veldt Grass Ann Veldt Grs Wild Oat Capeweed	11.5 myrtaceae both sides
Goodwood	M42	16	15.56	17.76	2.2	SE	Yates rd		0	0	2	2	2	2	2	2	2	2	3	3	11	11	Wild Radish	Veldt Grass Ann Veldt Grs Wild Oat Capeweed	NR bth sdes gravel pit 16.3right 16.8 left
Goodwood	M42	17	17.76	18.26	0.5	SE			0	0	1	1	1	1	2	2	2	2	3	3	9	9		Veldt Grass Wild Oat Capeweed Soursob	backen fern 15.5

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Goodwood	M42	18	18.26	19.26	1	SE			0	0	1	2	1	1	2	2	2	2	3	3	9	10		Wild Oat Soursob	brckenfern ironstone gully falls at end forest on left started 18.7
Goodwood	M42	19	19.26	20.06	0.8	SE	Ironstone falls		0	0	2	2	2	2	2	2	2	2	3	3	11	11			ironstone gully falls 19.4 gibson rd
Goodwood	M42	20	20.06	20.46	0.4	SE			0	0	1	2	2	2	2	2	2	2	3	2	10	10			gravel quarry
Goodwood	M42	21	20.46	21.16	0.7	SE			0	0	1	2	0	2	2	2	2	2	3	2	8	10			
Gray	2060096	1	0.24	0.44	0.2	E	gardiner		1	1	0	1	0	0	1	1	1	2	1	3	4	8	African Lovegrass	Wild Oat Veldt Grass Kikuyu Ann Grass	brome, stephen st finish
Gray	2060096	2	0.44	1.14	0.7	E	stephen		1	1	2	1	0	0	2	1	1	2	2	3	8	8	African Lovegrass	Wild Oat Veldt Grass Kikuyu Ann Grass Soursob Bridal Creeper	lillies
Gray	2060096	3	1.14	1.74	0.6	E			1	1	1	0	1	0	2	1	2	1	2	1	9	4	African Lovegrass	Wild Oat Veldt Grass Eastn States Euc Species	mine rehab area
Gray	2060096	4	1.74	2.24	0.5	E			1	1	2	2	1	1	2	2	2	2	3	3	11	11	African Lovegrass	Wild Oat Veldt Grass Vic Tea Tree	junction in rd vear right
Gun Club	2060037	1	0	1.93	1.93	North	Stirling rd	Mall okup rd	0	0	1	1	1	1	0	0	2	2	3	3	6	8	Arum Lily	Bridal Creeper	oxalis v bad, arum lillies scat- tered along bridal crpr 0.19 fumeria 0.1 0.5
Gundagi	2060296	1	0	0.2	0.2	S	Gavin		0	0	1	1	0	0	1	1	1	1	0	0	3	3	African Lovegrass	Kikuyu bulbs	was a minesite
Gundagi	2060296	2	0.2	0.8	0.6	S			0	0	0	0	0	0	1	2	0	1	0	0	1	3	African Lovegrass	Kikuyu Soursob, bulbs	was a minesite
Gundagi	2060296	3	0.8	1	0.2	S			0	0	0	0	0	0	1	2	1	1	0	1	2	4	African Lovegrass	Veldt Grass	

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Gundagi	2060296	4	1	1.3	0.3	W			0	0	0	0	0	0	1	2	1	1	0	1	2	4	African Lovegrass	Veldt Grass Capeweed	
Gundagi	2060296	5	1.3	1.8	0.5	W			0	0	0	1	0	0	1	2	0	1	0	1	1	5	African Lovegrass	Veldt Grass Capeweed	old mine site
Gundagi	2060296	6	1.8	2.2	0.4	W			0	0	0	0	0	0	1	1	1	1	1	1	3	3	African Lovegrass	Veldt Grass	old mine site Acacia flaggeliflor mos P4
Gwindinup	2060078	1	0	0.5	0.5	SW	Hurst		0	0	0	0	0	0	2	2	1	1	2	2	5	5	Wild Radish	Annual Grass Plantain	v narrow 10m rd res preston river 0.4, plum trees invading rd res RHS
Gwindinup	2060078	2	0.5	0.7	0.2	SW			0	0	0	0	0	0	2	2	0	0	0	0	2	2		Annual Grass	poplars planted in rd res on right
Gynudup rd	2060077	1	0	1.2	1.2	S		Gavins	0	0	1	1	1	1	1	1	2	2	3	2	8	7	African Lovegrass	Wild Oat Veldt Grass plantain brome flatweed	melaleuca watsonia 0.6 RHS wallaby grs (ntv)
Halls rd	2060050	1	0	1.45	1.45	West	Bussell hwy	end of road	0	0	2	2	1	1	1	1	2	2	3	3	9	9	Wild Radish		oxalis few fumeria 0.9-1.2 fresia 1.26
Hannaby gr	2060424	1	0	0.47	0.47	West	capel drive	end of road	0	0	2	2	0	0	0	0	1	1	2	2	6	6	African Lovegrass	Bridal Creeper	bridal crpr v bad, oxalis fumeria 0.15
Hansen rd	2060049	1	0	2.13	2.13	East	King rd	end of road	0	0	1	1	1	1	0	0	2	2	3	3	8	8	Wild Radish Arum Lily	capeweed lupins stinkweed	oxalis corkscrew at end fig tree 0.6
Harewood	2060070	1	0	0.27	0.27	W	Bussell highway		1	1	2	2	2	2	2	2	2	2	3	3	12	12		Veldt Grass Wild Oat Blue Lupin	
Harewood	2060070	2	0.27	0.66	0.39	W	Sherwood drive		0	0	0	0	0	0	0	0	0	0	0	0	0	0		Veldt Grass Wild Oat Blue Lupin	
Harewood	2060070	3	0.66	1.2	0.54	W	Sherwood drive	maidment pde	0	0	0	0	0	0	0	0	1	1	1	1	2	2		Veldt Grass Wild Oat Blue Lupin	brome

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Haycliff ave	2060209	1	0	0.2	0.2	E	end of cul der sac		0	0	0	1	0	1	2	1	0	2	0	1	2	6		Eastn States Euc Species Eastn States Wattles	
Haycliff ave	2060209	2	0.2	0.4	0.2	E	ryelands drive		0	0	0	1	0	1	2	1	0	2	0	1	2	6		Eastn States Euc Species Eastn States Wattles	brome mowed annual grasses
Haycliff ave	2060209	3	0.4	0.7	0.3	E			0	0	1	1	0	0	2	2	1	1	1	1	5	5	African Lovegrass	Eastn States Wattles Veldt Grass	brome veg type spearwood both sides
Haycliff ave	2060209	4	0.7	1	0.3	E			0	0	1	1	0	0	2	2	1	1	1	1	5	5	African Lovegrass	Eastn States Wattles Veldt Grass	brome veg type spearwood both sides
Haycliff ave	2060209	5	1	1.2	0.2	E			0	0	1	1	0	0	2	2	2	2	1	2	6	7	African Lovegrass	Eastn States Wattles Wild Pines Veldt Grass	veg type spearwood left side blowfly grass flatweed 1.2pines on right rd res til 1.3
Haycliff ave	2060209	6	1.2	1.5	0.3	E			0	0	1	1	0	0	2	2	2	1	1	1	6	5	African Lovegrass	Wild Pines Veldt Grass	veg type spearwood both sides blowfly grs flatweed pines on right in rd res til 1.3 finish sw hwy
Hickey close		1	0	0.2	0.2	W	Prows e		0	0	2	2	1	2	2	2	2	2	3	3	10	11		Wild Oat	blowfly grass
Higgins rd	2060079	1	0	1.81	1.81	South	Stirling rd	Forester	0	0	1	1	1	1	0	0	2	2	0	3	6	6	Wild Radish Arum Lily	onion weed oxalis	arum lily on R ntv forest
Husrt	2060018	1	0.72	1.82	1.1	S	Armstrong		0	0	1	0	1	0	2	1	2	0	3	0	9	1	African Lovegrass	Wild Oat Annl Grass Kikuyu Bridal Creeper Blue Lupin	babiana past joshua creek

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Husrt	2060018	2	1.82	2.22	0.4	S			0	0	0	0	0	0	2	0	0	0	0	0	2	0	African Lovegrass Wild Radish	Wild Oat Annl Grass Kikuyu	weeds have been sprayed
Husrt	2060018	3	2.22	3.02	0.8	S			0	0	1	1	0	0	2	2	1	1	2	2	6	6	African Lovegrass	Kikuyu	property left, lots weeds peprmits 2-2.3
Husrt	2060018	4	3.02	3.42	0.4	S			0	0	2	1	1	1	2	2	2	1	3	2	10	7	African Lovegrass	Kikuyu Annl Grass Bridal Creeper Soursob	gwindinup on left
Husrt	2060018	5	3.42	5.42	2	S	Gwindi nup		0	0	2	1	1	1	2	2	2	2	3	3	10	9		Annl Grass Soursob Bridal Creeper Eastn States Wattles	pst payne rd,bracken fern,peppe rmints 4.9 shire bdry
Hutton rd	2060032	1	0	0.2	0.2	S	Bussel l		1	0	1	1	0	1	1	1	1	1	1	1	5	5	African Lovegrass	Wild Oat	cotton bush sticky blue
Hutton rd	2060032	2	0.2	2	1.8	S	Bussel l		0	0	2	1	2	1	2	1	2	2	3	2	11	7	African Lovegrass Arum Lily	Wild Oat Wild Pines Veldt Grass Capeweed Bulb	blowfly grass, flatweed dandelion
Hutton rd	2060032	3	2	2.3	0.3	S	Bussel l		0	0	2	1	2	1	2	2	2	2	3	3	11	9	Arum Lily Thistle	Wild Oat Wild Pines Veldt Grass Capeweed Bridal Creeper blowfly grs flatweed	rd chngs to track ends @ Ludlow R Euc rudis peppermint & marri
Hyder	2060131	1	0	0.2	0.2	S	Gunda gi		0	0	0	1	0	0	1	1	0	1	0	1	1	4	African Lovegrass		old mine site
Hyder	2060131	2	0.2	0.5	0.3	S			0	0	1	1	1	1	2	2	2	2	3	1	9	7	African Lovegrass	Veldt Grass	old mine site
James rd	2060051	1	0	1.56	1.56	Nort h	Halls rd	end of road	0	0	1	1	0	0	0	0	2	1	3	2	6	4	Wild Radish		wild radish 0.69 tagasaste 0.79 stinkweed 1.12 dock 1.42 mostly weed free road

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			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Jamieson	2060026	1	0	1	1	W	Start Weld		0	0	0	0	0	0	2	1	1	1	1	1	4	3	African Lovegrass Wild Radish	Kikuyu Ann Veldt Grs Wild Oat Annl Grass	
Jamieson	2060026	2	1	1.55	0.55	W	Weld		0	0	1	0	0	0	2	1	1	0	2	0	6	1	African Lovegrass	Kikuyu Ann Veldt Grs Wild Oat Annl Grass Fleabane Veldt Grass	vetch
Jamieson	2060026	3	1.55	1.72	0.17	W	Weld		0	0	0	0	0	0	1	1	1	0	2	0	4	1	African Lovegrass	Kikuyu Ann Veldt Grs Wild Oat Annl Grass Veldt Grass	vetch
Jamieson	2060026	4	1.72	2.1	0.38	W			0	0	1	0	0	0	1	1	1	1	2	0	5	2	African Lovegrass	Kikuyu Ann Veldt Grs Wild Oat Annl Grass Veldt Grass Fumitory	vetch
Jamieson	2060026	5	2.1	2.9	0.8	W			0	0	1	1	0	0	2	2	2	2	3	3	8	8	African Lovegrass	Kikuyu Ann Veldt Grs Wild Oat Veldt Grass Fumitory Bridal Creeper	brome entering town
Jaymon	2060181	1	0	0.2	0.2	W	bussel hwy		0	0	1	0	1	0	1	1	1	1	2	1	6	3	African Lovegrass	Veldt Grass Wild Oat Blue Lupin Capeweed	daisy weed (ursinia)
Jaymon	2060181	2	0.2	0.53	0.33	W			0	0	0	0	0	0	1	1	1	1	2	1	4	3	African Lovegrass	Veldt Grass Wild Oat Blue Lupin Capeweed	ursinia, ramsay rd intersects
Jaymon	2060181	3	0.53	1.22	0.69	W	Ramsay		0	0	0	0	0	0	1	1	1	1	2	1	4	3	African Lovegrass	Veldt Grass Wild Oat Blue Lupin Capeweed	urban large lots on right mainly
Jilley Rd	2060045	7	4.7	4.88	0.18	N		Manea	0	0	1	1	0	1	2	1	2	2	2	2	7	7	African Lovegrass	Veldt Grass Wild Oat Tagasaste	end rd
Jilley Rd	2060045	8	4.88	5.13	0.25	N	Manea		0	0	0	0	0	0	2	2	1	1	1	1	4	4	African Lovegrass	Veldt Grass Wild Oat Tagasaste	Culvet @ 0.77 manea rd

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Jilley Rd	2060045	9	5.13	5.44	0.31	N		Woods	0	0	0	0	0	0	2	2	0	0	0	0	2	2	African Lovegrass	Veldt Grass Wild Oat Tagasaste	mowed weeds on left
Jilley Rd	2060045	10	5.44	5.71	0.27	N	Woods		0	0	0	0	0	0	2	2	0	0	0	0	2	2	African Lovegrass	Veldt Grass Wild Oat Tagasaste	woods rd
Jilley Rd	2060045	1	0	0.78	0.78	N	Boyan up west rd		0	0	1	1	0	0	1	2	1	1	2	1	5	5	African Lovegrass	Ann Veldt Grs Wild Oat Kikuyu Annl Grass	brome
Jilley Rd	2060045	2	0.78	1.9	1.12	N			0	0	1	1	0	0	1	2	1	1	2	1	5	5	African Lovegrass	Wild Oat Kikuyu Annl Grass Freesia Veldt Grass	brome melaleuca lhs 1-1.2 bracken 1.55
Jilley Rd	2060045	3	1.9	2.24	0.34	N			0	0	1	1	0	0	1	2	2	1	3	1	7	5	African Lovegrass	Wild Oat Kikuyu Annl Grass Freesia Veldt Grass Ann Veldt Grs	
Jilley Rd	2060045	4	2.24	3.06	0.82	N			0	0	1	1	0	0	1	2	1	1	3	2	6	6	African Lovegrass	Wild Oat Kikuyu Annl Grass Veldt Grass Ann Veldt Grs Bulb	rye grass
Jilley Rd	2060045	5	3.06	3.53	0.47	N			0	0	1	1	0	0	1	2	1	1	3	2	6	6	African Lovegrass	Wild Oat Fleabane	melaleuca wetland on left full of water 3.0
Jilley Rd	2060045	6	3.53	3.81	0.28	N			0	0	2	1	0	1	2	2	2	1	2	2	8	7	African Lovegrass	Wild Oat Capeweed Veldt Grass	wetland on right at end
Joshua Creek rd	2060019	1	0	1.1	1.1	E	Cnr Trainer & Armstrong		1	1	2	2	2	2	2	2	2	2	3	3	12	12		Watsonia	gravel pits scattered along
Joshua Creek rd	2060019	2	1.1	1.3	0.2	E			1	1	2	2	2	2	2	2	2	2	3	3	12	12		Watsonia	gravel pits
Joshua Creek rd	2060019	3	1.3	1.8	0.5	E			1	1	1	1	1	0	0	0	1	2	2	3	6	7		Soursob	babiana lots escaped from old house oxalis heaps low gmdcover

Survey of Roadside Conservation Values in the Shire of Capel

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Jules rd	2060190	1	0	0.2	0.2	N		Hasties rd	0	0	0	0	0	0	2	2	2	1	1	0	3	5	African Lovegrass Arum Lily Wild Radish		couch
Jules rd	2060190	2	0.2	0.7	0.5	N		Hasties rd	0	0	1	1	1	1	2	2	1	1	1	2	7	6	African Lovegrass	Veldt Grass Kikuyu Wild Oat	couch
Jules rd	2060190	1	0	1.9	1.9	N			0	0	0	0	0	0	2	2	2	2	2	2	6	6		Veldt Grass Fleabane Kikuyu Wild Oat	bracken fern present
Kilpatrick	2060021	1	0	0.5	0.5	W	sw hway		0	0	1	1	1	1	1	1	1	2	1	1	5	6	African Lovegrass Wild Radish	Wild Oat Veldt Grass Fumitory Kikuyu Dock Capeweed brome, flatweed, annual barb grass blowfly grs	melaleuca on right tea tree lft Sth African orchid weed (Orobanchaceae minor?)
Kilpatrick	2060021	2	0.5	1.2	0.7	W			0	0	1	1	1	1	2	2	2	2	3	2	9	8	Thistle	Wild Oat Veldt Grass Kikuyu Bridal Creeper Ann Veldt Grs Nightshade	brome, blowfly grass, flatweed
Kilpatrick	2060021	3	1.2	1.3	0.1	W			0	0	1	1	1	1	2	2	2	2	3	2	9	8	Thistle	Wild Oat Kikuyu Ann Veldt Grs Nightshade Fumitory Bridal Creeper	brome, blowfly grass, flatweed
Kilpatrick	2060021	4	1.3	1.6	0.3	W			0	0	0	0	0	0	0	0	1	1	2	1	3	2	African Lovegrass	Wild Oat Kikuyu Ann Veldt Grs Dock Capeweed Paspalum	brome, blowfly grs flatweed ryegrass heaps plantain
Kilpatrick	2060021	5	1.6	1.8	0.2	W			0	0	1	1	1	1	1	1	2	1	3	3	8	7	African Lovegrass Wild Radish	Wild Oat Bulb Kikuyu Veldt Grass	brome blowfly grass
Kilpatrick	2060021	6	1.8	2.2	0.4	W			0	0	1	1	1	1	1	1	2	1	2	2	7	6	African Lovegrass	Wild Oat Veldt Grass Ann Veldt Grs	brome, blowfly grs spear-wood veg

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Kilpatrick	2060021	7	2.2	2.5	0.3	W			0	0	1	1	0	0	1	1	1	1	0	0	3	3	African Lovegrass Thistle	Wild Oat Veldt Grass Ann Veldt Grs Kikuyu Paspalum Fleabane	brome, blowfly grs flatweed vetch, ryegrass yorkshire fog
Kilpatrick	2060021	8	2.5	2.8	0.3	W			0	0	1	1	0	0	1	1	1	1	1	1	4	4	African Lovegrass	Wild Oat Veldt Grass Ann Veldt Grs Kikuyu Blue Lupin brome, blowfly grs flatweed	melaleuca veg type both sides ann grass - died off vetch fog
Kilpatrick	2060021	9	2.8	3.2	0.4	W			0	0	1	1	0	0	1	1	2	2	2	2	6	6	Thistle	Kikuyu Blue Lupin Dock brome,	blowfly grs flatweed ann barb-grs, vetch
Kilpatrick	2060021	10	3.2	3.5	0.3	W			0	0	1	1	0	0	1	1	2	2	1	1	5	5	African Lovegrass	Blue Lupin Wild Oat Ann Veldt Grs	brome
Kilpatrick	2060021	11	3.5	4.2	0.7	N			0	0	1	1	0	0	1	1	2	2	1	1	5	5	African Lovegrass Thistle	Wild Oat Ann Veldt Grs Blue Lupin Paspalum Veldt Grass brome, vetch,	flatweed rye grass, blowfly melaleuca veg bth sdes
King rd	2060048	1	0	3.14	3.14	N E	Mallok up rd	Roberts rd	0	0	2	2	1	1	0	0	2	2	3	3	8	8	Arum Lily Apple of Sodom	Onion weed oxalis	arum lillies to 2.5 veldt lupins fresias 1.23 fumeria 1.35 1.4 1.49 ixia in reserve on roberts rd onionweed widespred resrv cnr roberts rd
Lilydale rd	2060011	1	0	0.6	0.6	W	sw hwy	Roselea Crt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	African Lovegrass		plantain couch

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Lilydale rd	2060011	2	0.6	0.9	0.3	W	Rosel ea crt		0	0	0	0	0	0	1	1	1	1	1	0	3	2	African Lovegrass		plantain couch
Lilydale rd	2060011	3	0.9	1.1	0.2	W	Rosel ea crt		0	0	0	0	0	0	1	1	0	0	0	0	1	1	African Lovegrass	Wild Oat, Dock Fleabane	plantain couch
Lilydale rd	2060011	4	1.1	1.3	0.2	W	Queel up rd		0	0	0	1	0	0	1	1	1	2	0	0	2	4	African Lovegrass Thistle	Wild Oat Fleabane Wild Pines East States Wattles Veldt Grass	couch Veg type: melaleuca
Lilydale rd	2060011	5	1.3	1.6	0.3	W			0	0	0	1	0	0	1	1	1	2	0	0	2	4	African Lovegrass Thistle	Wild Oat Fleabane Veldt Grass	couch cotton bush
Lilydale rd	2060011	6	1.6	2	0.4	W			0	0	1	1	0	0	1	1	1	2	0	2	3	6	African Lovegrass Thistle	Wild Oat Fleabane Veldt Grass	plantain couch
Lilydale rd	2060011	7	2	2.4	0.4	W			0	0	0	1	0	0	1	2	1	2	0	2	2	7	African Lovegrass Thistle	Wild Oat Fleabane Veldt Grass Kikuyu	plantain couch flatweed stinkwort
Lilydale rd	2060011	8	2.4	3.1	0.7	W			0	0	0	0	0	0	0	2	0	1	0	0	0	3	African Lovegrass	Wild Oat Fleabane Veldt Grass Kikuyu, Dock	plantain couch flatweed stinkwort oleander
Lilydale rd	2060011	9	3.1	3.5	0.4	W			0	0	0	1	0	0	0	2	0	2	0	0	0	5	African Lovegrass	Wild Oat Fleabane Veldt Grass Kikuyu, Dock	couch flatweed stinkwort windmil
Lowrie rd	2060005	1	11.1 7	11.7 7	0.6	W		after mine	0	0	2	2	1	1	2	2	2	2	2	2	9	9		Kikuyu Blue Lupin Ann Veldt Grs Fumitory, Eastn states natives	planted L&R frm 0.8 few weeds, lots grass trees
Lowrie rd	2060005	1	7.02	9.09	2	NE	Bound ary		0	0	1	1	0	0	2	2	2	2	2	3	7	8	African Lovegrass	Kikuyu Soursob Veldt Grass Watsonia	lots grass trees, mine right
Lowrie rd	2060005	2	9.02	10.5 2	1.5	NE			0	0	1	1	0	0	2	2	2	2	3	3	8	8	African Lovegrass	Wild Oat Veldt Grass	grass tree pepermint SW Hwy

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Ludlow North Rd	2060007	1	0	1	1	North East	Start/s hire boundary	end of forest	0	0	1	1	1	1	0	0	2	2	3	3	6	6	Arum Lily	Oxalis onion weed	lovegrass 0.3, flame tree 0.50, watsonia one plant 0.78
Ludlow North Rd	2060007	2	1	1.84	0.84	North East	end of forest	start forest on R	0	0	0	0	0	0	0	0	0	0	0	0	1	1	Arum Lily	Oxalis cape weed	dune onionweed thick in wider road reserve
Ludlow North Rd	2060007	3	1.84	2.73	0.89	NE	forest on R	forest	0	0	0	0	0	0	0	0	2	2	2	3	4	4	Arum Lily	oxalis onionweed	bulb 2.6
Ludlow North Rd	2060007	4	2.73	3.3	0.57	NE	end forest	Forest Beach rd	0	0	0	0	0	0	0	0	0	0	0	0	2	2	Arum Lily		onionweed cape weed
Ludlow North Rd	2060007	5	3.3	6.65	3.35	North East	Forest Beach rd	Stirling rd cmr	0	0	1	1	1	1	0	0	2	2	3	3	8	8	Apple of Sodom Arum Lily Wild Radish		Fumaria, fig tree 4.6 easter lilies 4.8 fig tree 6.5
Ludlow North Rd	2060007	6	6.65	11.56	4.91	North East	Stirling rd corner	Mall okup rd	0	0	1	1	1	1	0	0	2	2	3	3	7	7	Arum Lily Wild Radish	oxalis	scottd alng stink weed fumaria 8.02 kikuyu 8.0 figtree 11.4
Maitland rd	2060113	1	0	0.54	0.54	West	capel drive	end of road	0	0	1	1	1	1	0	0	2	2	3	3	8	8	Wild Radish		wild radish at corner 0.39
Malatesta	2060239	1	0	0.9	0.9	N	Railway		0	0	0	0	0	0	0	0	1	0	1	0	2	0	African Lovegrass Wild Radish	Annl Grass Wild Oat Veldt Grass Kikuyu Stink Wort Blue Lupin	railway crossing at start bit of vrg both sides then nothing brome. couch heaps, ryegrass, pimpernel
Malatesta	2060239	2	0.9	1.1	0.2	N	Railway		0	0	0	0	0	0	0	0	1	1	1	0	2	1	African Lovegrass Thistle	Wild Oat Veldt Grass Kikuyu Fumitory Sowthistle	creek crossing then mine entry gate end

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Mallokup Rd	2060008	1	0	7.6	7.6	North	Stirling	Endroberts rd	0	0	1	1	1	1	0	0	2	2	2	2	6	6	Wild Radish Cape Tulip Arum Lily	lupins oxalis fumaria veldt grass stink weed	yukka 1.74 cape tulip 8 plants L 2.35 paddy melons at king cnr garden escapee nr king rd arum lily R 4.0 to 6.43
Manea	2060195	1	0	0.28	0.28	W	Jilley		0	0	0	0	0	0	1	1	0	0	0	0	1	1	African Lovegrass	Veldt Grass Wild Oat Capeweed	daisy weed (ursinia)
Manea	2060195	2	0.28	0.67	0.39	W	Jilley		0	0	0	0	0	0	1	1	0	0	0	0	1	1	African Lovegrass	Veldt Grass Wild Oat Capeweed	daisy weed (ursinia)
Manea	2060195	3	0.67	0.79	0.12	W	Jilley		0	0	0	0	0	0	1	1	0	0	0	0	1	1	African Lovegrass	Veldt Grass Wild Oat Capeweed	marri close
Manea	2060195	4	0.79	1.29	0.5	W	marri		0	0	0	0	0	0	1	1	0	0	0	0	1	1	African Lovegrass	Veldt Grass Wild Oat Capeweed Blue Lupin	a few peppermints 1.1
Manea	2060195	5	1.29	1.48	0.19	W			0	0	2	1	1	1	2	2	2	2	2	2	9	8	African Lovegrass		
Manea	2060195	6	1.48	1.64	0.16	W			0	0	0	0	1	1	2	2	2	1	2	2	7	6	African Lovegrass		
Manea	2060195	7	1.64	1.95	0.31	W			0	0	2	2	1	1	2	2	2	1	2	2	9	8	African Lovegrass	Veldt Grass Wild Oat Capeweed	brockway end
Mangles Rd	2060009	1	0	2.2	2.2	North	Roberts rd	forest track	1	1	1	1	1	1	0	0	2	2	3	3	7	7	African Lovegrass Arum Lily	stink weed - freesias -	L R 0.1 L R 0 - 2.2 arum lily 2 plants R 0.2 lovegrass L 0.4 dune onionweed L R 0.4 to 2.2 tagasaste R 0.7 1.2 to 1.4

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Matthews	2060289	1	0	0.6	0.6	E	Malate sta		0	0	1	1	1	1	1	1	1	1	1	1	5	5	African Lovegrass Thistle	Wild Oat Veldt Grass Kikuyu Ann Veldt Grs Sowthistle Bulb	blowfly grs flatweed melaleuca woodland thru creek crssng 0.1
Matthews	2060289	2	0.6	0.8	0.2	E	Malate sta		0	0	1	1	1	1	1	1	2	2	2	2	7	7		Wild Oat Veldt Grass Sowthistle Ann Veldt Grs	blowfly grass, flatweed
Matthews	2060289	3	0.8	1	0.2	E			0	0	1	1	1	1	1	2	2	2	2	2	7	8	African Lovegrass	Wild Oat Veldt Grass Kikuyu Annl Grass	blowfly grass
Matthews	2060289	4	1	1.2	0.2	E			0	0	2	1	1	1	1	1	2	2	3	2	9	7	African Lovegrass	Wild Oat Veldt Grass Annl Grass Bulb	blowfly grass
McCormack rd	2060269	1	0	0.4	0.4	S	Halls rd	end of rd	0	0	0	0	0	0	0	0	1	1	2	2	4	4			
Minninup	2060126	1	0	1.63	1.63	S			0	0	0	0	0	0	1	1	0	0	0	0	1	1		Veldt Grass Wild Oat Blue Lupin Capeweed	urban large lots rosemore way end
Minninup	2060126	2	1.63	1.98	0.35	S	Rose more		0	0	1	0	1	0	2	1	1	0	1	0	6	1		Veldt Grass Wild Oat Blue Lupin Capeweed	regional open spce on right looks like old farm?
Minninup	2060126	3	1.98	2.6	0.62	S			0	0	0	0	0	0	1	1	0	0	0	0	1	1		Veldt Grass Blue Lupin Capeweed Wild Oat	Culvet 2.1 10ha or so farmlets
Minninup	2060126	4	2.6	3	0.4	S			0	0	0	1	0	0	1	1	0	2	0	1	1	5	Arum Lily	Veldt Grass Blue Lupin Capeweed Wild Oat	currently being burnt right, ursinia left
Minninup	2060126	5	3	3.4	0.4	S			0	0	0	2	0	1	2	2	0	2	0	3	2	10	Arum Lily	Veldt Grass Wild Oat	rich rd
Minninup	2060126	6	3.4	3.55	0.15	S	rich		0	0	0	0	0	0	2	1	0	0	0	0	2	1	Arum Lily	Veldt Grass Wild Oat	
Minninup	2060126	7	3.55	4.05	0.5	S			0	0	0	1	0	1	2	1	0	1	0	1	2	5		Veldt Grass Wild Oat Capeweed	
Minninup	2060126	8	4.05	4.3	0.25	S			0	0	0	1	0	1	2	1	0	1	0	1	2	5	Arum Lily	Veldt Grass Wild Oat Capeweed	bracken fern

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End Boundary rd end	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Norman rd	2060059	1	0	0.1	0.1	W			0	0	1	1	1	1	1	1	2	2	2	2	7	7	African Lovegrass	Wild Oat Veldt Grass Kikuyu Plantain 30-70%	grass trees melaleuca veg type
Norman rd	2060059	2	0.1	0.9	0.8	W			0	0	1	1	1	1	1	1	2	2	2	2	7	7	African Lovegrass	Wild Oat Veldt Grass Kikuyu Dock Plantain 30-70%	grass trees melaleuca
Norman rd	2060059	3	0.9	1.4	0.5	W			0	0	1	1	0	1	1	2	2	2	1	2	5	8	African Lovegrass	Wild Oat Veldt Grass Kikuyu plantain	grass trees, melaleuca
Norman rd	2060059	4	1.4	1.6	0.2	W		Gynudu p	0	0	1	1	0	1	1	2	2	2	1	2	5	8	African Lovegrass	Wild Oat Veldt Grass Kikuyu	grass trees plantain
Norman rd	2060059	5	1.6	1.8	0.2	W		Gynudu p rd	0	0	1	1	0	1	1	2	1	2	1	2	4	8	African Lovegrass	Wild Oat Veldt Grass Kikuyu	
Norman rd	2060059	6	1.8	2	0.2	W			0	0	0	1	0	1	1	2	1	2	1	2	3	8	African Lovegrass	Wild Oat Veldt Grass Kikuyu	
Payne	2060086	1	0	0.2	0.2	NE	Boyan up west		0	0	1	2	0	1	1	1	1	2	2	3	5	9	African Lovegrass	Wild Oat Kikuyu Watsonia Bulb	brome, ryegrass blowfly grs
Payne	2060086	2	0.2	0.4	0.2	NE			0	0	1	1	0	1	1	1	1	2	3	3	6	8	African Lovegrass	Wild Oat Kikuyu Brome ryegrass blowfly grss	house on left wattles escapd to bushland on right 0.4
Payne	2060086	3	0.4	0.6	0.2	NE			0	0	0	1	0	1	0	1	0	2	0	3	0	8	African Lovegrass	Wild Oat Kikuyu Eastn States Wattles brome, ryegrass, blowfly grss	house on left wattles escapd to bushland on right 0.5
Payne	2060086	4	0.6	0.9	0.3	NE			0	0	1	1	0	0	1	1	1	1	3	3	6	6	African Lovegrass Thistle	Wild Oat Kikuyu Bulb Ann Veldt Grs Eastn States Wattles	brome, blowfly grass, flatweed
Payne	2060086	5	0.9	1.1	0.2	NE			0	0	0	0	0	0	0	0	1	1	1	1	2	2	African Lovegrass	Wild Oat Bulb	ryegrass heaps, blowfly grs

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Payne	2060086	6	1.1	1.3	0.2	NE		end cemetery 60km sign	0	0	1	1	0	1	1	1	1	2	0	3	3	8	African Lovegrass	Wild Oat Watsonia Ann Veldt Grs Kikuyu, Bulbs	blowfly grs flatweed ryegrass
Payne	2060086	7	1.3	1.5	0.2	NE			0	0	0	1	0	1	2	2	0	2	0	2	2	8	African Lovegrass	Wild Oat	Weeds mowed bth sides end ray st
Penn	2060088	1	0	0.4	0.4	E	skippings		0	0	1	1	0	0	1	1	2	1	1	0	5	3	African Lovegrass	Wild Oat Kikuyu Ann Veldt Grs	brome, ryegrass couch, blowfly eucs as well
Penn	2060088	2	0.4	0.9	0.5	E			0	0	1	1	0	0	1	1	2	1	1	0	5	3	African Lovegrass Thistle	Wild Oat Kikuyu Ann Veldt Grs Dock	brome, ryegrass flatweed blowfly, vetch
Penn	2060088	3	0.9	1.6	0.7	E			0	0	0	1	0	0	1	1	1	1	1	1	3	4	African Lovegrass Thistle	Wild Oat Ann Veldt Grs Blue Lupin Capeweed Kikuyu	brome ryegrass flatweed blowfly marshmall ow, sorrel, pelagium spearwood veg type
Penn	2060088	4	1.6	1.8	0.2	E			0	0	0	1	0	0	1	1	1	1	1	1	3	4	African Lovegrass	Wild Oat Ann Veldt Grs Blue Lupin Kikuyu Brome, ryegrass blowfly	spearwood veg type few dead banisia left
Penn	2060088	5	1.8	2.6	0.8	E			0	0	1	1	0	0	1	1	2	2	1	1	5	5	Thistle	Wild Oat Ann Veldt Grs Blue Lupin Kikuyu, Dock Sowthistle	brome ryegrass blowfly, flatweed sorrel
Penn	2060088	6	2.6	2.8	0.2	E			0	0	1	1	0	0	1	1	2	2	1	1	5	5	Thistle	Wild Oat Ann Veldt Grs Kikuyu Sowthistle Dock, Fleabane	brome ryegrass blowfly, flatweed sorrel

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Penn	2060088	7	2.8	3	0.2	E			0	0	0	0	0	0	1	1	1	1	1	1	3	3	Thistle	Wild Oat Ann Veldt Grs Kikuyu Sowthistle Dock Fleabane	brome heaps, ryegrass blowfly, flatweed sorrel
Penn	2060088	8	3	4.8	1.8	E			0	0	1	1	0	0	1	1	1	1	2	2	5	5	Thistle	Wild Oat Ann Veldt Grs Kikuyu Dock Watsonia Paspalum Brome	ryegrass flatweed vetch gap 3.5- 3.6, Scott rd end
Penn	2060088	9	4.8	5.2	0.4	E	scott		0	0	1	0	0	0	1	0	1	0	0	0	3	0	African Lovegrass	Wild Oat Ann Veldt Grs Kikuyu, Bulb	
Penn	2060088	10	5.2	5.5	0.3	E		lincoln st	0	0	1	0	0	0	1	0	2	1	1	0	5	1	African Lovegrass Wild Radish	Wild Oat Kikuyu, Bulb Stink Wort	hares tail grass
Peppermint Grove rd	2060292	1	0	1.27	1.27	West	Ludlow north road	beach park	0	0	0	0	0	0	0	0	2	2	0	0	4	4	Arum Lily	fumaria 0.4 0.9 oxalis 1.0	a rum ly 0.5 onionwd 1.0 kikuyu near drain
Plantation	2060031	1	0	0.7	0.7	W	Good ward		0	0	1	1	0	0	1	1	2	1	1	0	5	3		Wild Oat Ann Veldt Grs Dock Veldt Grass Capeweed Kikuyu	
Plantation	2060031	2	0.7	0.8	0.1	W			0	0	1	0	0	0	1	1	2	0	1	0	5	1		Wild Oat Ann Veldt Grs Dock Veldt Grass Capeweed Kikuyu	
Plantation	2060031	3	0.8	1.9	1.1	W			0	0	1	1	0	0	1	1	2	0	1	0	5	2		Wild Oat Ann Veldt Grs Capeweed	
Plantation	2060031	4	1.9	2	0.1	W			0	0	0	0	0	0	1	1	2	0	1	0	4	1		Wild Oat Ann Veldt Grs Capeweed	
Plantation	2060031	5	2	2.2	0.2	W			0	0	2	0	1	0	2	0	2	0	2	0	9	0	Thistle	Wild Oat Veldt Grass Capeweed AnnI Grass Ann Veldt Grs	flatweed blowfly dandelion pelagium sa orchid

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Plantation	2060031	6	2.2	2.55	0.35	W			0	0	1	1	1	0	2	2	2	1	2	0	8	4		Wild Oat Veldt Grass	flatweed blowfly
Plantation	2060031	7	2.55	3	0.45	W			0	0	1	1	1	0	2	2	1	1	1	1	6	5	African Lovegrass	Wild Oat	spearwood veg type
Plantation	2060031	8	3	3.4	0.4	W			0	0	1	1	1	0	2	2	1	1	1	1	6	5	African Lovegrass	Wild Oat dandelion	spearwood veg type
Plantation	2060031	9	3.4	3.7	0.3	W			0	0	0	1	1	0	1	1	1	1	1	1	4	4	African Lovegrass	Wild Oat	weeds cleared
Plantation	2060031	10	3.7	4.45	0.75	W			0	0	2	2	1	1	2	2	2	2	1	2	8	9		Wild Oat Capeweed Watsonia	blowfly grs flatweed, brome 2.48watsonia rhs
Plantation	2060031	11	4.45	4.85	0.4	W			0	0	0	1	0	0	1	1	0	1	0	3	1	6	African Lovegrass Thistle	Ann Veldt Grs Wild Oat Capeweed Veldt Grass	blowfly grass, flatweed
Plantation	2060031	12	4.85	5.25	0.4	W			0	0	2	2	2	2	2	2	2	2	3	3	11	11	Thistle	Ann Veldt Grs Wild Oat	blowfly grs flatweed peppermint prouse rd
Plantation	2060031	13	5.25	5.55	0.3	W			1	1	2	2	2	2	2	2	2	2	3	3	12	12		Veldt Grass Wild Oat	blowfly grs flatweed peppermint
Plantation	2060031	14	5.55	5.85	0.3	W			0	0	1	0	1	1	2	1	2	1	3	1	9	4	Thistle	Wild Oat Sowthistle Veldt Grass	flatweed blowfly grs
Plantation	2060031	15	5.85	6.35	0.5	W			0	0	1	1	1	1	2	1	2	2	3	3	9	8	Arum Lily Thistle	Wild Oat Capeweed Nightshade Bridal Creeper Sowthistle Ann Veldt Grs	flatweed blowfly grs melaleuca woodland 0.6-0.7
Plantation	2060031	16	6.35	6.85	0.5	W		Hutton	0	0	1	1	1	1	2	1	2	2	3	3	9	8	Arum Lily Thistle	Wild Oat Capeweed Nightshade Bridal Creeper Sowthistle	flatweed blowfly grs spearwood peppermint
Prowse	2060129	1	0.45	0.65	0.2	S	Brockman		0	0	0	0	0	0	1	1	0	1	0	0	1	2	Thistle	Veldt Grass Wild Oat Sowthistle	Flatweed couch, ryegrass brome hobby farms w scrd trees adj luse

Survey of Roadside Conservation Values in the Shire of Capel

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Prowse	2060129	2	0.65	1.05	0.4	S			0	0	1	1	0	0	1	1	2	1	2	1	6	4		Veldt Grass Wild Oat Sowthistle	Flatweed couch, ryegrass brome, vetch melaleuca spearwood
Prowse	2060129	3	1.05	1.25	0.2	S			0	0	2	1	2	1	2	2	2	2	3	2	11	8	Arum Lily Thistle	Veldt Grass Wild Oat Sowthistle Soursob Blue Lupin	pelagium spearwood veg too dead banksia
Prowse	2060129	4	1.25	1.55	0.3	S			0	0	1	1	1	0	1	1	2	1	3	1	8	4		Veldt Grass Wild Oat	brome
Prowse	2060129	5	1.55	1.75	0.2	S			0	0	2	1	2	1	2	1	2	2	3	3	11	8		Wild Oat	blowfly grs veg type both sides spearwood
Prowse	2060129	6	1.75	2.35	0.6	S			0	0	2	2	2	2	2	2	2	2	3	3	11	11		Wild Oat	veg type both sides spearwood banksia
Prowse	2060129	7	2.35	2.65	0.3	S			0	0	2	2	2	2	2	2	2	2	3	3	11	11		Wild Oat Veldt Grass	veg type both sides spearwood
Prowse	2060129	8	2.65	3.15	0.5	S			0	0	2	2	2	2	2	2	2	2	3	3	11	11		flatweed	veg type both sides spearwood melaleuca woodland on left 2.4
Prowse	2060129	9	3.15	3.25	0.1	S	Hickey		0	0	2	2	2	2	2	2	2	2	3	3	11	11	Thistle		veg type both sides spearwood
Prowse	2060129	10	3.25	3.45	0.2	S			0	0	2	2	2	2	2	2	2	2	3	3	11	11	Arum Lily Thistle	Annual Grass Capeweed Sowthistle flatweed	veg type both sides melaleuca trck nrws hilly w/ind sign lft 2.9
Prowse	2060129	11	3.45	3.55	0.1	S			0	0	2	2	2	2	2	2	2	1	3	3	11	10		Veldt Grass Wild Oat	veg type both sides melaleuca brome, rye grass, vetch

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Queelup rd	2060012	1	0	0.1	0.1	S			0	0	1	1	0	0	1	1	2	2	3	3	7	7	African Lovegrass	couch	Acacia veg type
Queelup rd	2060012	2	0.1	0.4	0.3	S			0	0	0	1	0	0	1	1	1	1	2	2	4	5	African Lovegrass	couch flatweed plantain	Acacia veg type
Queelup rd	2060012	3	0.4	0.7	0.3	S			0	0	0	1	0	0	1	1	1	1	2	2	4	5	African Lovegrass Thistle	Wild Oat Veldt Grass Kikuyu Fleabane	couch blowfly grs flatweed plantain
Queelup rd	2060012	4	0.7	1.2	0.5	S		Lilydale rd	0	0	0	1	0	0	2	2	2	2	2	2	6	7	African Lovegrass Thistle	Wild Oat Veldt Grass Dock, Couch flatweed	melaleuca veg type both sides peppermint
Queelup rd	2060012	5	1.2	1.5	0.3	S		Lilydale rd	0	0	0	1	0	0	2	2	1	1	2	2	5	6	African Lovegrass Thistle	Wild Oat Veldt Grass Dock, couch	melaleuca veg type bth sides flatweed
Queelup rd	2060012	6	1.5	1.7	0.2	S		Lilydale rd	0	0	0	0	0	0	2	2	1	1	2	2	5	5	African Lovegrass	Wild Oat Veldt Grass couch	melaleuca veg type both sides
Queelup rd	2060012	7	1.7	2	0.3	S			0	0	1	2	0	1	2	2	2	2	2	2	7	9	African Lovegrass	Wild Oat Veldt Grass Fleabane	couch plantain dock
Queelup rd	2060012	8	2	2.2	0.2	S			0	0	1	2	0	1	2	2	2	2	3	2	8	9	African Lovegrass	Wild Oat Veldt Grass Fleabane	couch plantain
Queelup rd	2060012	9	2.2	2.5	0.3	S			0	0	2	2	1	1	2	2	2	2	3	2	10	9	African Lovegrass	Wild Oat Veldt Grass couch	plantain narrowleaf clover
Queelup rd	2060012	10	2.5	2.9	0.4	S			0	0	1	1	1	1	2	2	2	2	2	1	8	7	African Lovegrass	Wild Oat Veldt Grass Nightshade	Couch dieback
Queelup rd	2060012	11	2.9	3.1	0.2	S		Ducane rd	0	0	1	1	0	1	2	2	2	2	2	1	7	7	African Lovegrass	Wild Oat Veldt Grass	couch dieback
Railway	M61	1	0	0.3	0.3	W	sw hwy		0	0	0	0	0	0	1	1	0	1	0	0	1	2		Soursob Watsonia	maintaind urban vrge
Railway	M61	2	0.3	1.5	1.2	W	sw hwy		0	0	1	1	0	0	1	1	1	1	1	1	4	4		Soursob Watsonia Eastn States Wattles Kikuyu	
Railway	M61	3	1.5	2.4	0.9	W	sw hwy		0	0	0	1	0	1	1	1	0	2	0	1	1	6	African Lovegrass Wild Radish	Soursob Watsonia Eastn States Wattles Kikuyu Ann Veldt Grs	

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Railway	M61	4	2.4	2.6	0.2	W	sw hwy		0	0	0	1	0	1	1	1	1	2	0	1	2	6	African Lovegrass Wild Radish	Soursob Watsonia Kikuyu Ann Veldt Grs	Eastn States Wattles
Railway	M61	5	2.6	3.1	0.5	W	sw hwy		0	0	0	1	0	1	1	1	1	2	0	1	2	6	African Lovegrass Thistle Wild Radish	Soursob Watsonia Kikuyu Ann Veldt Grs	Eastn States Wattles
Railway	M61	6	3.1	5	1.9	W			0	0	1	1	0	1	1	2	1	2	0	3	3	9	African Lovegrass	Soursob Watsonia Eastn States Wattles Kikuyu Ann Veldt Grs Wild Turnip	burnt verge right small section, drain lhs road reserve
Railway	M61	7	5	8.4	3.4	W			0	0	1	2	0	2	1	2	1	2	0	3	3	11	African Lovegrass	Soursob Watsonia Eastn States Wattles Kikuyu Ann Veldt Grs Wild Turnip	drain on left side in road reserve
Railway	M61	8	8.4	9.6	1.2	W	Elgin rd at end		0	0	0	2	0	2	1	2	0	2	0	3	1	11	African Lovegrass Wild Radish	Soursob Watsonia Eastn States Wattles, Kikuyu Ann Veldt Grs Wild Turnip	drain on left side in road reserve Weed - fumitory
Railway	M61	9	9.6	10.2	0.6	W	Elgin rd		0	0	0	1	0	1	2	2	2	2	1	2	5	8	African Lovegrass	Kikuyu Ann Veldt Grs	drain lhs road reserve
Railway	M61	10	10.2	11.7	1.5	W			0	0	0	1	0	1	2	2	1	2	0	3	3	9	African Lovegrass	Kikuyu Ann Veldt Grs	10.9 black flag
Railway	M61	11	11.7	12.4	0.7	W			0	0	1	1	0	1	2	2	2	2	1	2	6	8	African Lovegrass Thistle	Kikuyu Ann Veldt Grs	
Railway	M61	12	12.4	13.5	1.1	W	Washers rd		0	0	1	1	1	1	2	2	2	2	1	2	7	8	African Lovegrass Thistle	Kikuyu Ann Veldt Grs	
Railway	M61	13	13.5	15.1	1.6	W	Malate sta		0	0	0	1	1	1	2	2	2	2	1	2	6	8	African Lovegrass Thistle Wild Radish	Kikuyu Ann Veldt Grs	a few planted gums rhs
Railway	M61	14	15.1	16.3	1.2	W			0	0	1	1	0	1	2	2	2	2	2	3	7	9	African Lovegrass Arum Lily Thistle Wild Radish	Watsonia Kikuyu Ann Veldt Grs Capeweed Freesia Bridal Creeper	

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)																	L	R			
Range rd	2060130	1	0	0.65	0.65	S	Prows e rd		0	0	0	0	0	0	1	1	2	1	0	0	3	2		Annual Veldt Grass	
Reilly rd	2060062	1	0	0.2	0.2	S	Railway		0	0	1	1	0	0	1	1	1	1	1	1	4	4	African Lovegrass Thistle	Wild Oat Kikuyu Sowthistle	blowfly grs brome, flatweed
Reilly rd	2060062	2	0.2	0.4	0.2	S			0	0	1	0	0	0	1	1	1	1	1	1	4	3	African Lovegrass	Wild Oat Kikuyu	blowfly grass
Reilly rd	2060062	3	0.4	0.9	0.5	S			0	0	0	0	0	0	1	1	1	1	1	1	3	3	African Lovegrass Thistle	Wild Oat Kikuyu Sowthistle	blowfly grs brome, flatweed
Reilly rd	2060062	4	0.9	1.1	0.2	S			0	0	1	1	0	0	1	1	2	2	3	2	7	6		Wild Oat Sowthistle Ann Veldt Grs Kikuyu	brome, ryegrass Road becomes track
Reilly rd	2060062	5	1.1	1.5	0.4	S			0	0	2	1	0	0	2	1	2	2	3	2	9	6		Wild Oat Annual Veldt Grass Kikuyu brome, ryegrass	many huge grass trees Track ends
Roberts rd	2060280	1	0	2.5	2.5	West	busse l hwy	Mall okup rd	0	0	1	1	1	1	0	0	2	2	2	2	7	7	Wild Radish African Lovegrass Apple of Sodom Arum Lily	stink weed lupins oxalis veldt grass	fumaria 0.96 deadly nightshade freesias new weed L 1.0
Roselea court	2060174	1	0	0.5	0.5	W			0	0	0	0	0	0	2	2	0	1	0	0	2	3			
Shenton	2060265	1	0.49	0.89	0.4	S			0	0	0	1	0	0	1	1	0	1	0	3	1	6		Ann l Grass Watsonia Soursob	oxalis 4oclock, plantain ixias, babiana
Stafford dr	2060397	1	0	0.63	0.63	East	Chislehurst west	Chislehurst East	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Wild Radish		
Stirling rd	2060016	1	0	4.79	4.79	West	Busse l hwy	Ludlow rd	0	0	1	1	1	1	0	0	2	2	3	3	7	7	Wild Radish Arum Lily	pinus 0.3 bridal creeper 0.4 stink weed	oxalis tree cape lilac 1.36 easter lily 3.89R
Summerlea	2060040	1	3.08	3.38	0.3	NE		Gavin rd	0	0	2	2	2	2	2	2	2	2	1		10	9	African Lovegrass	Annual Veldt Grass	couch flatweed becomes 4wd track

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Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Tatton pl	2060398	1	0	0.21	0.21	West	forest turn corner		0	0	0	0	0	0	0	0	0	0	1	0	1	0	Wild Radish Apple of Sodom	capeweed pig melons stinging nettles	double G L - end
Trainer rd	2060255	1	0	0.6	0.6	N	junction viaed right	end joshua ck rd left	1	1	2	2	2	2	2	2	2	2	3	3	12	12		Eastn States Wattles	adj lus mine rehab left end armstrong rd
Trainer Rd	2060255	2	0.6	1	0.4	N			1	1	2	2	1	2	2	2	2	2	3	3	11	12	African Lovegrass	Wild Oat Veldt Grass Vic Tea Tree Eastn States Wattles	old shire tip RHS castor oil plant from tip
Tuart	2060310	1	0	0.2	0.2	SW	bussell		1	0	0	1	0	0	1	1	1	1	1	2	4	5	African Lovegrass	Wild Oat Stink Wort	blowfly grs ryegrass
Tuart	2060310	2	0.2	0.9	0.7	SW			1	0	2	2	1	1	2	2	2	2	3	3	11	10	African Lovegrass Arum Lily Thistle	Wild Oat Stink Wort Victorian TTree Veldt Grass Eastn States Wattles	blowfly pelgonium minesite reveg lhs rd res & adj luse
Tuart	2060310	3	0.9	1.2	0.3	SW			1	0	2	2	2	1	2	2	2	2	3	3	12	10	African Lovegrass Arum Lily	Wild Oat Veldt Grass Eastn States Wattles Ann Veldt Grs couch pelagium	minesite reveg lhs rd res & adj luse wetlands mine on left, paperbarks L&R
Tuart	2060310	4	1.2	1.8	0.6	SW			1	0	2	2	2	1	2	2	2	2	3	3	12	10	Arum Lily Thistle Wild Radish	Wild Oat Veldt Grass Victorian TTree Watsonia Dock pelagium ryegrass	euphorbia brome typha paperbarks L&R melaleuca wetland
Tuart	2060310	5	1.8	1.9	0.1	SW			1	0	2	2	1	1	2	2	2	2	3	2	11	9	Arum Lily Thistle Wild Radish	Wild Oat Veldt Grass pelagium ryegrass euphorbia brome	typha paperbarks L&R melaleuca wetland
Tuart	2060310	6	1.9	2.1	0.2	SW			1	0	0	2	0	1	0	2	0	2	0	3	1	10	Arum Lily	Wild Oat Veldt Grass Blue Lupin Fumitory Capeweed Victorian TTree	couch safrican orchid

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)			Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Tuart	2060310	7	2.1	2.3	0.2	SW			1	0	1	2	0	1	1	2	2	2	2	3	7	10	Arum Lily	Wild Oat	
Tuart	2060310	8	2.3	3.5	1.2	SW			1	0	0	1	0	1	0	2	1	2	0	3	2	9		Wild Oat Victorian TTree Eastn States Wattles Wild Pines Blowfly grss	tuart frest, peppermint introduced plants on rd res planted by old forests dept mixed w ntv tuart
Tuart	2060310	9	3.5	4	0.5	SW			1	0	1	1	0	1	0	2	1	2	0	3	3	9		Victorian TTree Eastn States Wattles Wild Pines Veldt Grass	tuart frest introduced plants on rd res planted by old forests dept
Tuart	2060310	10	4	4.3	0.3	SW			1	0	0	1	0	1	0	2	0	2	0	3	1	9		Victorian TTree Eastn States Wattles Wild Pines Veldt Grass Wild Oat	tuart frest introduced plants on rd res planted by old forests dept w ntv tuart
Tuart	2060310	11	4.3	5.3	1	SW			1	0	0	1	0	1	0	1	2	2	1	3	4	8	Arum Lily Wild Radish	Victorian TTree Eastern States Wattles Wild Pines Veldt Grass Wild Oat Eastern States Euc Species evening primrose	tuart frest, peppermint eastern states weeds planted by old forests dept w ntv tuart jacksonia on left End at ludlow river
Vickery	2060290	1	0	0.3	0.3	E	Clapp		0	0	0	0	0	0	0	0	0	0	0	0	0	0		Wild Oat Veldt Grass Annli Grass	blowfly grs ryegrass brome lots colonising acacias rhs

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Vickery	2060290	2	0.3	1	0.7	E			0	0	1	1	0	0	1	1	1	1	1	1	4	4	African Lovegrass	Wild Oat Veldt Grass AnnI Grass Ann Veldt Grs blowfly grs flatweed ryegrass	brome lots colonising acacias rhs melaleuca s L&R
Vickery	2060290	3	1	1.7	0.7	E			0	0	1	1	0	0	1	1	1	1	2	2	5	5	African Lovegrass	Wild Oat Veldt Grass AnnI Grass Ann Veldt Grs Bridal Creeper	cross railway, end railway rd
Warns	2060028	1	0	0.6	0.6	S	Good wood rd	Cap el Tute nup Rd	0	0	1	1	1	0	1	1	2	2	3	3	8	7		Wild Oat Ann Veldt Grs Veldt Grass Kikuyu Freesia Watsonia	
Warns	2060028	2	0.6	2.1	1.5	S		Plan tation Rd	0	0	1	1	0	0	1	1	1	2	0	1	3	5	African Lovegrass	Wild Oat Ann Veldt Grs Capeweed Veldt Grass Kikuyu	brome lots tutenup rd int end
Warns	2060028	3	2.1	2.35	0.25	S	Planta tion Rd		0	0	0	0	0	0	0	0	0	0	0	0	0	0	Thistle	Wild Oat Veldt Grass Capeweed AnnI Grass Ann Veldt Grs Dock	flatweed blowfly vetch dandelion clover brome
Warns	2060028	4	2.35	2.9	0.55	S			0	0	1	1	0	0	1	1	1	1	3	3	6	6	Thistle	Wild Oat Veldt Grass Capeweed AnnI Grass Ann Veldt Grs Dock	flatweed ryegrass couch vetch dandelion clover brome
Warns	2060028	5	2.9	3.25	0.35	S			0	0	1	1	0	0	1	1	2	1	3	3	7	6	Thistle	Wild Oat Veldt Grass Capeweed AnnI Grass Ann Veldt Grs Dock flatweed ryegrass couch	vetch dandelion clover brome fog melaleuca & spear- wood veg

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Warns	2060028	6	3.25	4.15	0.9	S			0	0	0	1	1	1	0	1	1	1	1	1	3	5	Thistle	Wild Oat Veldt Grass Annl Grass Ann Veldt Grs flatweed brome ryegrass	pelagium heaps melaleuca & grass trees banksias @ end rhs
Washers rd	2060027	1	0	1.9	1.9	N	Gavin		0	0	1	1	1	1	1	2	2	1	1	0	6	5	African Lovegrass	Kikuyu Ann Veldt Grs Soursob Veldt Grass Red Watsonia Bridal Creeper	vetch
Washers rd	2060027	2	1.9	2.2	0.3	N			0	0	1	1	1	1	1	1	2	2	1	2	6	7		Ann Veldt Grs	
Washers rd	2060027	3	2.2	2.7	0.5	N			0	0	1	1	1	1	1	1	2	2	3	3	8	8	Thistle	Kikuyu Ann Veldt Grs Soursob	ann weeds end railway rd
Weld	2060104	1	0	0.5	0.5	E	capel drive		0	0	0	1	0	0	2	2	0	1	0	1	2	5		Capeweed Wild Oat Flatweed blowfly grs	austin rhs fennel left end sect
Weld	2060104	2	0.5	1.08	0.58	E	fennel	east rd	0	0	1	1	0	0	2	2	0	1	0	1	3	5		Capeweed Wild Oat	gazanias at end left
Weld	2060104	3	1.08	1.35	0.27	E	east		0	0	0	1	0	0	1	2	1	1	1	1	3	5		Capeweed Wild Oat Veldt Grass Bridal Creeper Kikuyu	gazanias, garden plants bracken vetch
Weld	2060104	4	1.35	1.55	0.2	E			0	0	1	1	0	0	2	2	2	1	2	2	7	6	Thistle	Capeweed Wild Oat Veldt Grass Bridal Creeper Kikuyu Nightshade	
Weld	2060104	5	1.55	1.6	0.05	E			0	0	1	1	0	0	2	2	2	1	2	2	7	6	African Lovegrass Thistle	Capeweed Wild Oat Veldt Grass Nightshade Bulb Bridal Creeper	melaleuca s on left rye grass brome dandelion
Weld	2060104	6	1.6	3.18	1.58	E			0	0	1	1	0	0	2	2	1	2	3	3	7	8	African Lovegrass Thistle	Veldt Grass Bridal Creeper Soursob Ann Veldt Grs Wild Oat Kikuyu	brome, vetch, gap of weeds 2.6 -2.8

Survey of Roadside Conservation Values in the Shire of Capel

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Weld	2060104	7	3.18	3.51	0.33	E		summerlea	0	0	1	0	0	0	2	0	1	0	3	0	7	0	African Lovegrass	Veldt Grass Soursob Ann Veldt Grs	
Weld	2060104	8	3.51	3.85	0.34	E	Summerlea		0	0	1	0	0	0	2	0	1	0	2	0	6	0	African Lovegrass	Veldt Grass Soursob Ann Veldt Grs Wild Oat	
Weld	2060104	9	3.85	4.4	0.55	E		Jamieson rd	0	0	1	1	0	0	2	1	1	1	2	2	6	5	African Lovegrass	Veldt Grass Ann Veldt Grs Wild Oat Freesia	flatweed
Weld	2060104	10	4.4	5.05	0.65	E	Jamieson		0	0	1	0	0	0	2	1	1	1	2	2	6	4	African Lovegrass	Veldt Grass Ann Veldt Grs Wild Oat Freesia vetch	busquet rd 4.7, limited veg to wests rd 4.88
Weld	2060104	11	5.05	5.3	0.25	E			0	0	1	0	0	0	2	0	1	0	0	0	4	0	African Lovegrass Wild Radish	Veldt Grass Ann Veldt Grs Wild Oat	vetch
Weld	2060104	12	5.3	6	0.7	E			0	0	1	0	0	0	1	1	1	1	0	1	3	3	African Lovegrass	Veldt Grass Ann Veldt Grs Wild Oat Capeweed	melaleucas 5.5 brome
Weld	2060104	13	6	6.2	0.2	E			0	0	1	0	0	0	1	1	1	0	0	0	3	1	African Lovegrass	Veldt Grass Ann Veldt Grs Wild Oat	melaleucas brome
Weld	2060104	14	6.2	6.37	0.17	E			0	0	1	1	0	0	2	1	2	1	3	1	8	4		Veldt Grass Ann Veldt Grs Wild Oat	
Weld	2060104	15	6.37	6.6	0.23	E		hackett rd	0	0	1	0	1	0	2	1	2	0	2	0	8	1		Veldt Grass Ann Veldt Grs Wild Oat	
Weld	2060104	16	6.6	6.94	0.34	E	Hackett		0	0	1	0	2	1	2	1	2	1	2	1	9	4		Veldt Grass Wild Oat	
Weld	2060104	17	6.94	7.65	0.71	E		Wynne rd	0	0	2	1	2	1	2	2	2	2	3	1	11	7		Veldt Grass Wild Oat Ann Veldt Grs	banksias lhs b4
West rd	2060108	1	0	1	1	West	capel drive	end of road	0	0	0	0	0	0	0	0	0	0	0	0	0	0	African Lovegrass		oxalis blue periwinkle under big palm 0.32
Widdeson rd	2060272	1	0	1.01	1.01	North	round about	end of rd	0	0	1	0	0	0	0	0	2	2	3	2	6	4	African Lovegrass		
Woods	2060047	1	0	0.25	0.25	E	Bussell hwy		0	0	1	1	1	2	2	2	1	2	1	3	6	10		Veldt Grass Wild Oat	

Survey of Roadside Conservation Values in the Shire of Capel

Road Name	Road Number	Section #	OD Start	OD End	Distance	Direction	Intersection		Width of vegetation		Extent of Vegetation		# of native plant species		Weeds		Native Vegetation		Habitat Features		Conservation Value score (0-12)		Dominant Weeds combined	Other Weeds Combined	Comments
			(km)	(km)	(km)		Start	End	L	R	L	R	L	R	L	R	L	R	L	R	L	R			
Woods	2060047	2	0.25	0.36	0.11	E			0	0	0	1	1	2	2	2	1	2	1	3	5	10		Veldt Grass Wild Oat	
Woods	2060047	3	0.36	0.51	0.15	E			0	0	2	2	1	2	2	2	2	2	2	2	9	10			
Woods	2060047	4	0.51	1.07	0.56	E	banksia		0	0	2	2	2	2	2	2	2	2	3	3	11	11	African Lovegrass	Veldt Grass	bunbury outer ring rd to go thru here b4 brockway drive
Woods	2060047	5	1.07	1.3	0.23	E	after Brock way		0	0	1	1	1	1	1	2	1	2	1	2	5	8	African Lovegrass	Veldt Grass Blue Lupin Wild Oat	
Woods	2060047	6	1.3	1.98	0.68	E			0	0	0	1	0	1	1	2	1	2	1	2	3	8	African Lovegrass	Veldt Grass Wild Oat Capeweed	peppermints on right water? bth sds nr end jilley rd
Yearly rd	2060017	1	0	0.4	0.4	E	Bussell hwy		0	0	1	1	0	0	2	2	1	2	2	2	6	7	African Lovegrass Thistle	Annul Grass Wild Oat Veldt Grass Ann Veldt Grs Qld Silver Watt Sowthistle Flatweed vetch plantain	veg type euc and melaleuca woodland Euc rudis? marri mine entry rd
Yearly rd	2060017	2	0.4	0.9	0.5	E	Bussell hwy		0	0	1	1	0	1	2	2	0	2	0	2	3	8	Thistle	Annul Grass Wild Oat Veldt Grass Ann Veldt Grs Qld Silver watt Sowthistle	mine entry gate

Key to table interpretation:

Section#: Roads are surveyed chronologically in sections. When there is a change in roadside attributes, a new section is started.

OD Start/Finish: Odometer reading for the section start and finish points.

Distance: Distance between the OD start and OD finish for each section. It is the length of the section.

Direction: Main Roads WA direction of the road and generally the direction traveled by the surveyors when assessing the roadside.

The following attributes are ranked from 0 (lowest level) to 1, 2 or 3 (highest level) as per the descriptions below on the left and right sides of the road.

Width of Vegetation: Vegetation alongside the road to the fenceline line - 0-5m (scores 0), greater than 5m (scores 1)

Native Vegetation: Number of native vegetation layers present (ie) tree, shrub and/or ground cover layers. Scores 0 for no layer, 1 for 1 layer, 2 for 2 or more layers.

Extent of Vegetation: Proportion of native vegetation in the roadside. Scores 0 for 0-30%, 1 for 30-70%, 2 for greater than 70%

#Native Plant Species: Diversity of native plants species in the roadside. Scores 0 for 0-5 species, 1 for 6-19 species, 2 for 20 or more species

Habitat Features: Number of roadside vegetation attributes present that are important for fauna habitat or biodiversity. Eg. Hollow logs, tree hollows, flowering shrubs and environmentally sensitive areas. Score 1 for each feature up to maximum of 3.

Weeds: Level of weed infestation (lower scores indicate higher levels of weed infestation) Score 0 for greater than 70%, 1 for 30-70%, 2 for 0-30% weed cover.

Conservation Value Score: Tally of the scores for the 6 attributes described above. This is the score which is shown on the map. **0-4** Low conservation, **5-6** Medium Low Conservation, **7-8** Medium High Conservation, **9-12** High Conservation.

Dominant Weeds: Weeds chosen by Capel staff and/or LCDC members to target – weed overlays are provided for these species.

Appendix

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APPENDIX 3

Road names and lengths: Shire of Capel

(Source: Main Roads WA 2009)

ROAD NAME	Road number	Length
GAVINS RD	2060003	14.63
BOUNDARY RD	2060004	5.93
LOWRIE RD	2060005	11.83
ELGIN RD	2060006	13.44
LUDLOW NORTH RD	2060007	11.56
MALLOKUP RD	2060008	7.60
MANGLES RD	2060009	2.12
CLARKE RD	2060010	8.62
LILYDALE RD	2060011	3.63
QUEELUP RD	2060012	3.20
CLOVERDALE RD	2060013	6.30
CAPEL TUTUNUP RD	2060014	4.80
CABLE MINE	2060015	3.38
STIRLING RD	2060016	4.79
YEARDY RD	2060017	0.83
HURST RD	2060018	5.55
JOSHUA BROOK RD	2060019	1.88
KILPATRICK RD	2060021	4.18
FOWLER RD	2060022	4.32
CAIN RD	2060023	8.85
HASTIE RD	2060024	2.46
JAMIESON RD	2060026	3.60
WASHERS RD	2060027	2.74
WARNS RD	2060028	4.26
FORREST BEACH RD	2060029	2.08
PEPPERMINT GROVE TCE	2060030	2.05
PLANTATION RD	2060031	7.00
HUTTON RD	2060032	2.14
DOUNGUP RD	2060033	1.40
FISHERMAN'S RD	2060035	1.50
COAST RD	2060036	1.29
GUN CLUB	2060037	1.93
MC CARLIES RD (F)	2060038	0.64
MCCOURTS RD	2060039	1.77
SUMMERLEA RD	2060040	3.38
BUSQUETS RD	2060041	2.94
AUSTIN RD	2060042	0.65
JILLEY RD	2060045	5.70
CROWD RD	2060046	0.50
WOODS RD	2060047	2.03
KING RD	2060048	3.14
HANSEN RD	2060049	2.13
HALLS RD	2060050	1.45
JAMES RD	2060051	1.56

T.H. SCOTT RD	2060052	1.83
GIBSON RD	2060053	0.70
H TURNER RD	2060054	1.35
DAVIES RD	2060055	1.08
WESTS RD	2060056	1.21
BELL RD	2060057	3.45
WELLS RD	2060058	0.80
NORMAN RD	2060059	2.40
BRILLIANT RD	2060061	2.42
REILLY RD	2060062	1.63
PEACOCKS L	2060063	0.40
COLLINS RD	2060064	2.11
SKIPPINGS RD	2060065	3.70
BROOKDALE RD	2060066	6.64
ROSELANDS RD	2060067	0.80
KEN BELLS RD	2060068	3.08
MARCHETTI RD	2060069	0.92
HAREWOODS RD	2060070	1.31
LORETTA AV	2060071	0.99
DARDANUP WEST RD	2060072	0.40
NICHOLLS RD	2060073	1.12
EDWARDS RD	2060074	1.19
GARDINER RD	2060075	2.09
BRYCE RD	2060076	3.20
GYNUDUP RD	2060077	1.23
GWINDINUP RD	2060078	0.75
HIGGINS RD	2060079	1.81
WYNNE RD	2060080	1.02
DOYLE RD	2060081	0.82
CARTERS RD	2060082	1.13
STEPHEN ST	2060083	1.03
THOMAS ST	2060084	0.60
TIMPERLERLEY RD	2060085	1.96
PAYNE RD	2060086	2.10
BRIDGE ST	2060087	0.70
PENN ST	2060088	6.14
GEORGE RD	2060089	0.40
SIMMONS RD	2060090	0.13
CHARLOTTE ST	2060091	0.13
RAY RD	2060093	0.47
SALTER RD	2060094	0.65
TURNER RD	2060095	0.32
GRAY RD	2060096	2.41
WILLIAM RD	2060097	1.11
LINCOLN RD	2060098	1.26
SCOTT RD	2060099	0.80
BACK RD	2060100	0.48
ROE RD	2060101	1.11
BUCHANAN RD	2060102	0.48
PROPERJOHN RD	2060103	0.84

WELD RD	2060104	17.59
JENKIN RD	2060105	0.41
BARLEE RD	2060107	0.45
WEST RD	2060108	1.00
MASLIN ST	2060109	0.22
ELLIOTT RD	2060110	0.14
FARLEY RD	2060111	0.10
DUNKLEY RD	2060112	0.27
MAITLAND RD	2060113	0.54
EAST RD	2060114	1.35
PAYNE RD	2060115	0.90
BERKSHIRE ST	2060116	0.41
SCOTT RD	2060117	0.21
HOUSE RD	2060118	0.20
STIRLING RD	2060119	0.15
LAYMAN RD	2060120	0.94
HUTTON RD	2060122	0.37
MORRIS RD	2060124	1.14
MINNINUP RD	2060126	5.86
LAKES RD	2060127	1.43
RICH RD	2060128	1.06
PROWSE RD	2060129	5.18
RANGE RD	2060130	1.74
HYDER RD	2060131	2.07
TWOMEY RD	2060132	0.40
NUTALL RD	2060133	0.40
JULES RD NORTH	2060134	1.95
BRISDEN RD	2060135	0.43
D'ARCEL RD	2060136	0.52
FORREST RD	2060137	0.15
TURNER PL	2060138	0.16
UPSON RD	2060139	0.41
YALINDA DR	2060140	2.57
COACHWOOD WY	2060141	0.97
TAMARIND CR	2060142	0.31
SIERRA PL	2060143	0.12
GREENDALE PL	2060144	0.27
SERENE DR	2060145	0.17
ZINNIA DR	2060146	0.26
ZANADU CT	2060147	0.17
TARROCK CT	2060148	0.17
SHEOAK ST	2060149	0.28
HEATHRIDGE RD	2060150	0.19
HAMPSTEAD ST	2060151	2.10
BROOKVIEW AV	2060152	1.00
MOSSDALE AV	2060153	0.09
SANDILANDS AV	2060154	0.17
BLYTHEWOOD AV	2060155	0.09
HARDEY TCE	2060156	1.06
CAMPBELL RD	2060157	0.27

GWENYDD WY	2060158	0.20
MCCOURT PL	2060159	0.22
SUNSET CL	2060160	0.11
PERIWINKLE PL	2060161	0.18
SEA BREEZE ST	2060162	0.06
SAND DUNE DR	2060163	0.07
WAVE WALK	2060164	0.33
WINTER CT	2060165	0.07
STRATHAM CL	2060166	0.70
SLEAFORD DR	2060167	0.65
WRIGHTS RD	2060168	2.88
PENNY RD	2060169	2.10
PAYNE ST	2060170	0.23
HOOKER ST	2060171	0.18
JOHN ST	2060172	0.12
DEMPSTER ST	2060173	0.15
ROSELEA CT	2060174	0.54
QUAMBI DR	2060175	1.00
RAMSAY RD	2060176	3.34
MURNANE CR	2060177	0.88
KENT RD	2060178	0.29
CHILD PL	2060179	0.12
CHERITON CT	2060180	0.30
JAYMON RD	2060181	1.28
MC TAGGART RD	2060182	0.90
CHRISTOPHER WY	2060183	0.17
LAURINA PL	2060184	0.07
COKELUP RD	2060185	0.22
RIDGE PL	2060186	0.19
BANKSIA RD	2060187	0.17
EUCALYPT DR	2060188	2.10
DUCANE RD	2060189	5.68
JULES RD	2060190	0.74
ROSEMORE WY	2060191	0.35
FRANCES RD	2060192	1.13
ALLENVILLE RD	2060193	1.59
GELORUP RISE	2060194	1.53
MANEA DR	2060195	2.00
STABLE CL	2060196	0.16
BROCKMAN ST	2060197	0.49
BUSHER PL	2060198	0.07
WRIGHT ST	2060199	0.13
HILDUNA DR	2060200	0.21
MEWETT DR	2060201	0.25
JOHN HOGG RD	2060202	0.70
ALLEN RD	2060203	0.11
CAPEL DR SERVICE RD 1	2060204	0.28
EILEEN CT	2060205	0.07
COWRIE CT	2060206	0.06
HAWLEY RD	2060207	0.28

VIEW CT	2060208	0.10
HAYCLIF AV	2060209	1.56
CHRISTMAS TREE CT	2060210	0.32
DELAPORTE ST	2060211	0.13
SPURR ST	2060212	1.50
ILMENITE CR	2060213	0.94
BROCKWAY DR	2060215	1.45
WATKINS RD	2060216	0.85
BRUCE RD	2060217	0.40
HOLLY HILL AV	2060218	0.17
FENNELL RD	2060219	0.60
RUSSELL RISE	2060220	0.15
RAY CT	2060221	0.09
CRAIG CT	2060222	0.07
JOANNE CT	2060223	0.13
BAY CR	2060224	0.23
ST CLAIR PL	2060225	0.17
TURNER RD	2060226	0.19
MORIATY ST	2060227	0.10
ECCLESTONE CT	2060228	0.13
HAIR PL	2060229	0.35
ARMSTRONG RD	2060230	2.18
KORELLA DR	2060231	0.50
WATTLE BIRD CT	2060232	0.07
IBIS CT	2060233	0.08
KOOKABURRA WY	2060234	0.40
RIVERVIEW PL	2060235	0.09
CAPE VIEW L	2060236	0.36
ANDERSON RD	2060237	0.38
HAYFIELD DR	2060238	1.25
MALATESTA RD	2060239	1.23
MEADOW VIEW RD	2060240	0.23
MAYNARD PDE	2060241	0.80
MARRI PL	2060242	0.35
SPEED CT	2060243	0.14
JENOUR CT	2060244	0.24
PALMER CT	2060245	0.22
HAWKINS DR	2060246	1.21
DALYELLUP RD	2060247	1.14
RYELANDS DR	2060248	1.11
PEPPERMINT CT	2060249	0.21
PAPERBACK PL	2060250	0.22
GUTMAN RD	2060251	1.13
PEAK PL	2060252	0.12
RYAN CT	2060254	0.07
TRAINER RD	2060255	1.05
CONNELL CT	2060256	0.22
TRELOARS RD	2060257	0.25
TAMRA CL	2060258	0.15
ZEUS RD	2060260	0.04

TUCKER ST	2060262	0.38
NOONAN PL	2060263	0.10
CALINUP RD	2060264	1.00
SHENTON RD	2060265	1.03
MERRITT ST	2060266	0.10
SUMMERS VIEW	2060267	0.14
TRESIZE RD	2060268	0.40
MC CORMACK RD	2060269	0.40
BOYONA PL	2060270	0.23
REYNOLDS RD	2060271	0.79
WIDDESON RD	2060272	1.01
CAPEL DR	2060273	0.96
REID AV	2060274	1.60
HACKETT RD	2060275	0.60
COUTTS RD	2060276	0.10
WIDDESON SERVICE RD	2060277	0.18
TEA TREE PL	2060278	0.15
ORCHID PL	2060279	0.07
ROBERTS RD	2060280	3.83
DALYELLUP SERVICE RD 1	2060281	0.21
DALYELLUP SERVICE RD 2	2060282	0.14
DALYELLUP SERVICE RD 3	2060283	0.23
LANG COVE	2060284	0.08
EMMETT RD	2060285	0.27
MORONY MEWS	2060286	0.10
URQUHART RD	2060287	0.61
BENTLEY DR	2060288	1.75
MATTHEWS RD	2060289	1.20
VICKERY RD	2060290	1.71
CLAPP RD	2060291	1.06
PEPPERMINT GROVE RD	2060292	1.27
LOW RD	2060293	0.07
BOYANUP WEST RD	2060294	11.09
HARRIS ST	2060295	0.10
GUNDAGAI RD	2060296	2.25
BREEZE RD	2060297	0.40
HURFORD BRAE	2060298	1.56
RD NO 299	2060299	0.40
RD NO 300	2060300	0.24
RD NO 301	2060301	0.60
RD NO 302	2060302	0.87
RD NO 303	2060303	0.43
WITHERS RD	2060304	0.14
RD NO 305	2060305	0.05
RD NO 306	2060306	0.50
RD NO 308	2060308	0.80
RD NO 309	2060309	0.49
TUART DR	2060310	5.39
DAWES PL	2060311	0.12
ZIRCON WY	2060312	0.14

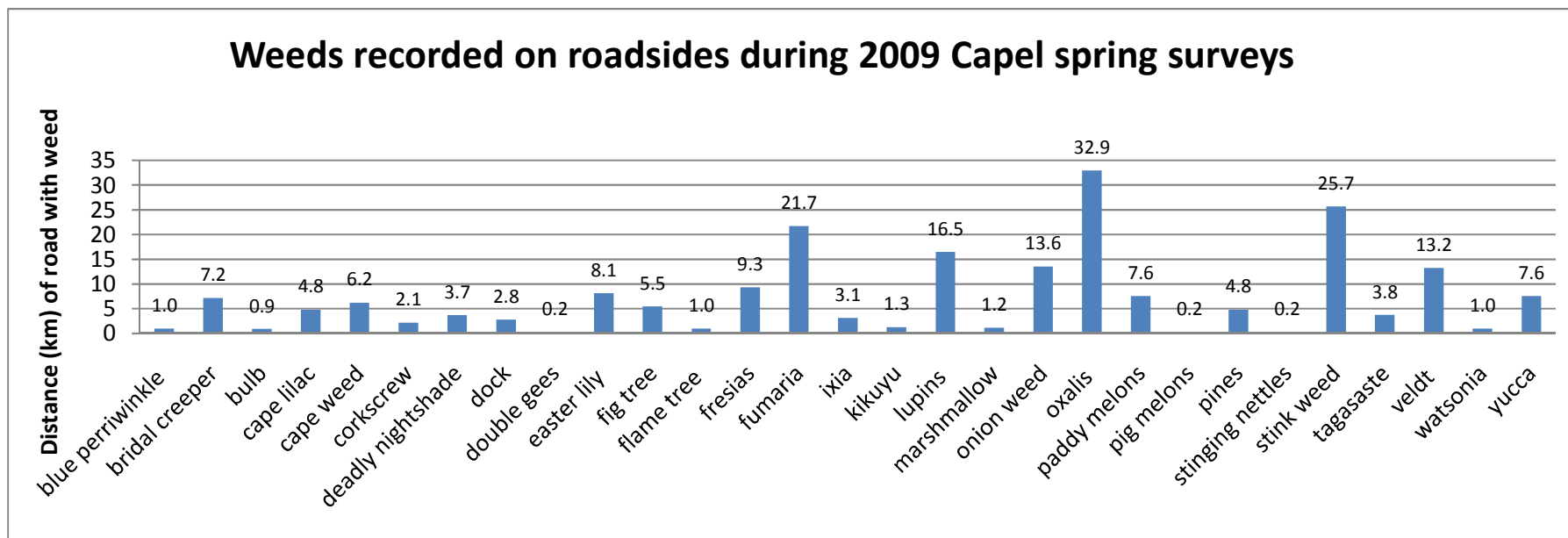
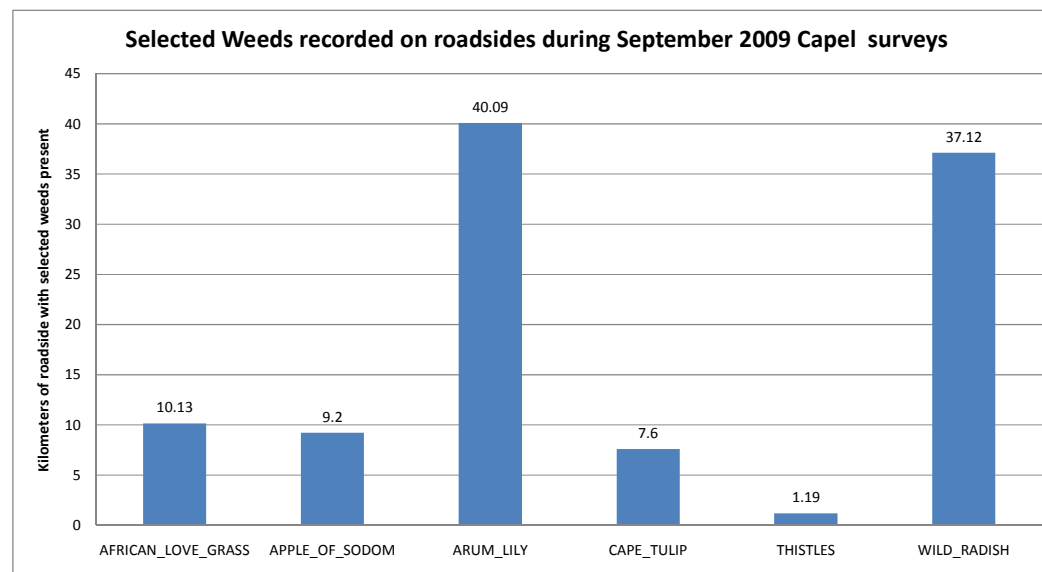
RD NO 313	2060313	2.05
RD NO 314	2060314	0.01
RD NO 315	2060315	0.01
RD NO 316	2060316	1.16
RD NO 317	2060317	1.67
MAALI VIEW	2060318	0.07
BOOBOOK RISE	2060319	0.18
OCEAN BLUE LOOP	2060320	0.25
BOLEY CT	2060321	0.16
DUFFIELD PL	2060322	0.33
BERTI CT	2060323	0.15
NYOLA PL	2060324	0.05
BARNDI WALK	2060325	0.14
YELIN CT	2060326	0.07
BILA CL	2060327	0.05
DIGGER PL	2060328	0.60
ALBURY CT	2060329	0.28
NORTON PROM	2060330	4.15
DALYELLUP BVD	2060331	2.51
WONIL CR	2060332	0.18
KULARDA RD	2060333	0.37
MOONDAR PDE	2060334	0.64
SAMROSE RD	2060335	1.20
PUNGURA RD	2060336	0.25
CONDIL ST	2060337	0.23
MAIDMENT PDE	2060338	3.15
MOORT ST	2060339	0.24
KOULBERRY RD	2060340	0.37
KOORDEN ST	2060341	0.27
QUONDAY WY	2060342	0.46
WANDOO RD	2060343	0.33
MODONG ST	2060344	0.33
YARRI RD	2060345	0.25
HORNIBROOK RD	2060346	2.43
JANJIN RD	2060347	0.32
KARDAN WY	2060348	0.33
WONGIN RD	2060349	0.42
KARDIL ST	2060350	0.44
DUNMOW RISE	2060351	0.20
KWELL RD	2060352	0.19
SWAIN PL	2060353	0.12
PIARA WY	2060354	0.33
WARUT WY	2060355	0.25
YEID ST	2060356	0.17
MOIT RD	2060357	0.25
WORNT RD	2060358	0.36
COOJONG RD	2060359	0.41
HUTT DR	2060360	1.11
DAABLONE VSTA	2060361	0.75
SEQUE WY	2060362	0.15

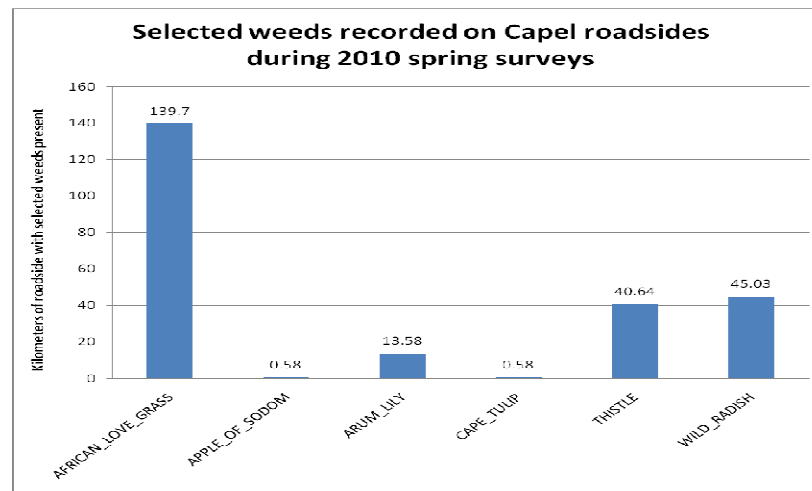
BONANZA RD	2060363	0.18
AURORA ST	2060364	0.13
ANTELOPE TURN	2060365	0.57
GERS ST	2060366	0.12
GOSSE WY	2060367	0.19
MAY RD	2060368	0.09
CHISLEHURST AV	2060369	3.05
GUTMANN PWY	2060370	0.50
CAMBRIA RD	2060371	0.34
WENTWORTH DR	2060372	0.92
MACKAY RD	2060373	0.31
BLAXLAND RD	2060375	0.62
DAMPIER ST	2060376	0.26
GOYDER WY	2060377	0.20
HARTOG RD	2060379	0.25
HUME RD	2060380	0.15
JANSZ RD	2060381	0.20
LAWSON RD	2060382	0.59
POOLE RD	2060384	0.43
HOPE ST	2060386	0.18
MACEDON RD	2060387	0.37
NAROONA DR	2060388	0.44
TOBAR RD	2060389	0.19
ZEDOR WY	2060390	0.21
DUCE DR	2060391	0.09
PAGE RTT	2060392	0.43
STAFFORD DR	2060397	0.63
TATTON PL	2060398	0.21
VENUS RD	2060399	0.02
CARNEGIE ST	2060400	0.32
MADIGAN RD	2060401	0.17
HOWITT WY	2060402	0.15
HORROCKS RD	2060403	0.04
MCMILLAN DR	2060404	0.88
BATMAN WY	2060405	0.29
DURACK ST	2060406	0.26
CHISHOLM RD	2060407	0.67
MELBA WY	2060408	0.25
GILMORE ST	2060409	0.26
WALTON APP	2060410	0.62
AGRA WY	2060412	0.11
HAMPTON ST	2060413	0.15
SILAS WY	2060414	0.17
KILLERBY DR	2060415	0.56
MCKENZIE CR	2060416	0.50
KOOMAL CL	2060417	0.07
YOORN CT	2060422	0.13
STRACHAN CT	2060423	0.12
HANNABY GR	2060424	0.47
EVA FAWY	2060425	0.06

KATINKA ST	2060426	0.18
RODONDO ST	2060427	0.34
THETIS LINK	2060428	0.30
HERALD WY	2060429	0.36
LAPWING RD	2060430	0.25
SEPIA APP	2060431	0.27
CARSON ST	2060433	0.28
EDIS L	2060434	0.10
NICOLAY APP	2060435	0.50
SEWELL RD	2060436	0.29
DRIVER RD	2060437	0.24
JULL WY	2060438	0.22
ONSLow ST	2060439	0.19
TONKIN FAWY	2060440	0.15
A"DALE WY	2060442	0.16
FRIARTUCK RD	2060444	0.30
Longbow APP	2060445	0.30
MAIDMARIAN ST	2060446	0.32
NOTTINGHAM ENT	2060447	0.32
ROBINHOOD RD	2060448	0.55
SHERIFF FAWY	2060449	0.15
SHERWOOD DR	2060450	0.78
CITRINE ST	2060452	0.31
DIAMOND ST	2060453	0.44
GARNET WY	2060454	0.22
PERIDOT ST	2060456	0.28
SAPPHIRE RD	2060457	0.49
TOPAZ WY	2060458	0.16
DALYELLUP SERVICE RD 4	2060467	0.30
DALYELLUP SERVICE RD 5	2060468	0.20
NASTES CT	2060469	0.11
JADE CR	2060479	0.16
ROAD NO. 906	2060485	0.07
OXLEY PASS	2060486	0.05
REID SERVICE RD	2060488	0.15
CAPEL DR SERVICE RD 2	2060489	0.11

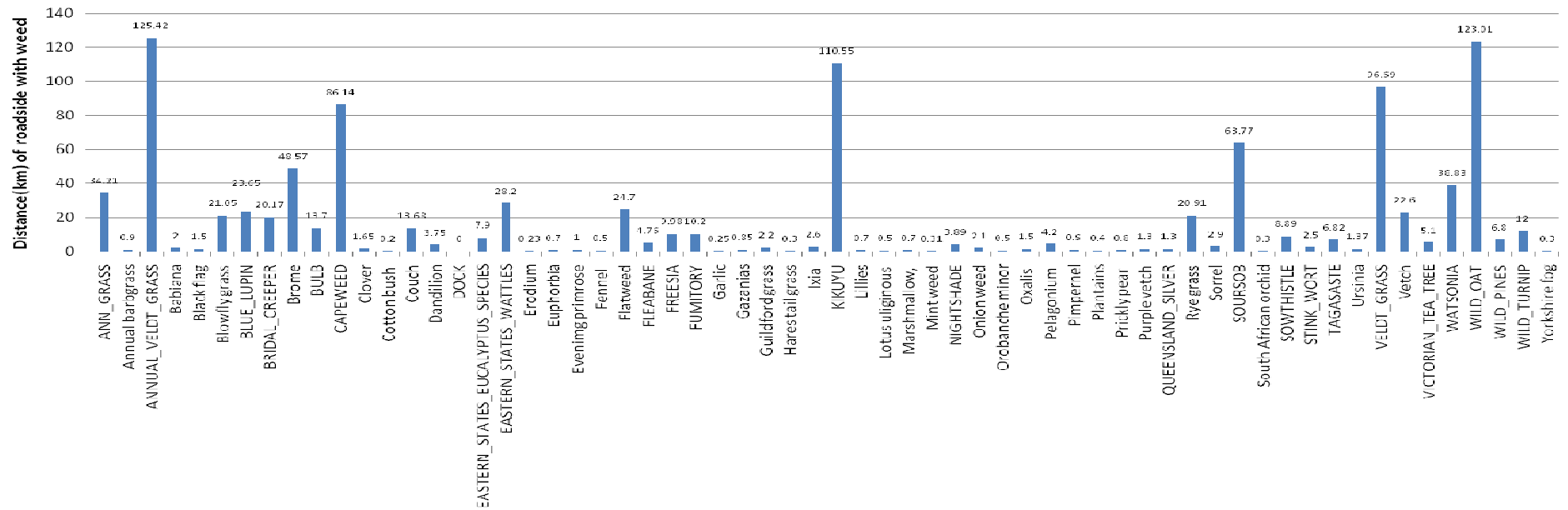
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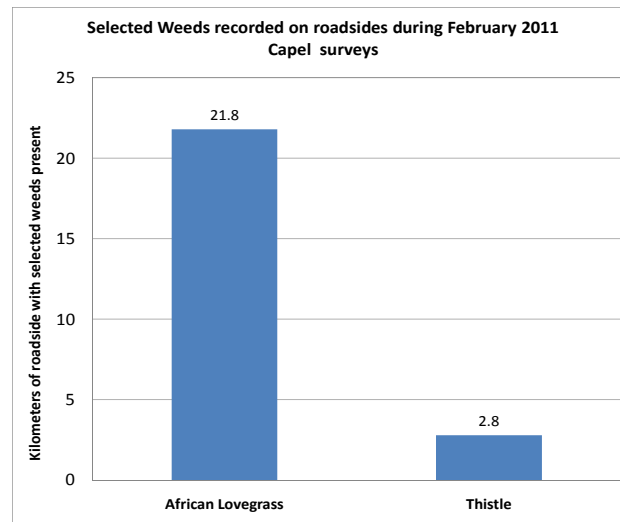
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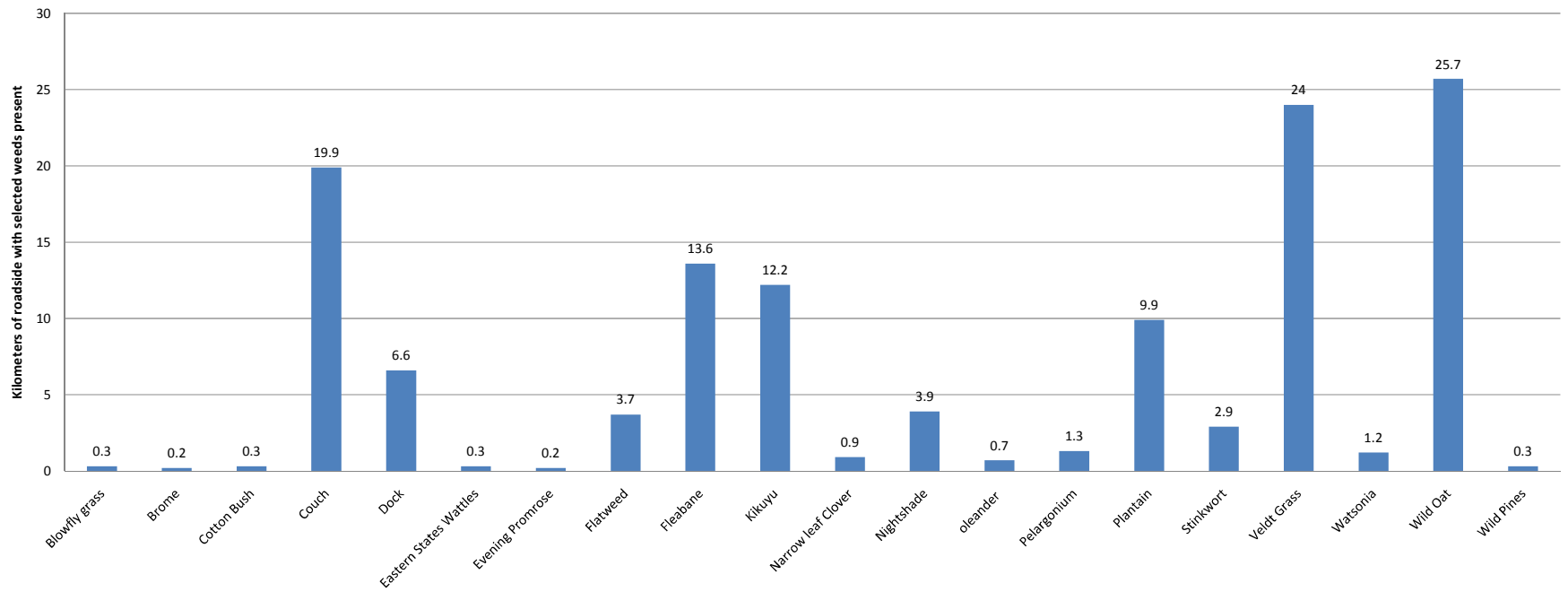


Additional Weeds recorded on roadsides during 2010 Capel spring surveys





Additional Weeds recorded on roadsides during February 2011 Capel surveys



Appendix

5

APPENDIX 5

Flora species in the Shire of Capel (Source: NatureMap, January 2011)

Note: not a comprehensive list and may not be the most up to date information available.

NatureMap Species Report

Created By Guest user on 19/01/2011

Current Names Only Yes
 Species Group All Plants
 Method 'Predefined Area Intersect'
 Area Type Shire Boundary
 Intersect CAPEL

	Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
1.	15466	<i>Acacia applanata</i>			
2.	3262	<i>Acacia cochlearis</i> (Rigid Wattle)			
3.	3282	<i>Acacia cyclops</i> (Coastal Wattle)			
4.	3294	<i>Acacia dentifera</i>			
5.	3307	<i>Acacia divergens</i>			
6.	3331	<i>Acacia extensa</i> (Wiry Wattle)			
7.	3339	<i>Acacia flagelliformis</i>		P4	
8.	3374	<i>Acacia huegelii</i>			
9.	3410	<i>Acacia lateriticola</i>			
10.	3448	<i>Acacia mooreana</i>			
11.	3454	<i>Acacia nervosa</i> (Rib Wattle)			
12.	3464	<i>Acacia obovata</i>			
13.	3482	<i>Acacia paradoxa</i> (Kangaroo Thorn)	Y		
14.	3502	<i>Acacia pulchella</i> (Prickly Moses)			
15.	15481	<i>Acacia pulchella</i> var. <i>glaberrima</i>			
16.	15483	<i>Acacia pulchella</i> var. <i>pulchella</i>			
17.	3504	<i>Acacia pycnantha</i> (Golden Wattle)	Y		
18.	3527	<i>Acacia saligna</i> (Orange Wattle)			
19.	30032	<i>Acacia saligna</i> subsp. <i>saligna</i>			
20.	30036	<i>Acacia saligna</i> subsp. <i>stolonifera</i>			
21.	3537	<i>Acacia semitrullata</i>		P4	
22.	3557	<i>Acacia stenoptera</i> (Narrow Winged Wattle)			
23.	3574	<i>Acacia teretifolia</i>			
24.	3576	<i>Acacia tetragonocarpa</i>			
25.	3591	<i>Acacia urophylla</i>			
26.	3602	<i>Acacia willdenowiana</i> (Grass Wattle)			
27.	3184	<i>Acaena echinata</i> (Sheep's Burr)			
28.	33037	<i>Acaena ovina</i> (Sheep's Burr)			
29.	1208	<i>Acanthocarpus preissii</i>			
30.	17774	<i>Acetosella vulgaris</i>	Y		
31.	5315	<i>Actinodium cunninghamii</i> (Albany Daisy)			
32.	6203	<i>Actinotus glomeratus</i>			
33.	14970	<i>Adenanthos barbiger</i>			
34.	1790	<i>Adenanthos meisneri</i>			
35.	1791	<i>Adenanthos obovatus</i> (Basket Flower)			
36.	28281	<i>Adenanthos</i> sp. <i>Whicher Range</i> (G.J. Keighery 9736)			
37.	5316	<i>Agonis flexuosa</i> (Peppermint)			
38.	17202	<i>Agonis flexuosa</i> var. <i>flexuosa</i>			
39.	23474	<i>Agrostocrinum hirsutum</i>			
40.	1261	<i>Agrostocrinum scabrum</i> (Blue Grass Lily)			
41.	184	<i>Aira caryophyllaea</i> (Silvery Hairgrass)	Y		
42.	186	<i>Aira elegantissima</i>	Y		
43.	1728	<i>Allocastrum fraseriana</i> (Sheoak)			
44.	1732	<i>Allocastrum humilis</i> (Dwarf Sheoak)			
45.	6565	<i>Alyxia buxifolia</i> (Dysentery Bush)			
46.	2655	<i>Amaranthus albus</i> (Tumbleweed)	Y		
47.	25840	<i>Amaranthus blitum</i>	Y		
48.	2668	<i>Amaranthus powellii</i> (Powell's Amaranth)	Y		
49.	1489	<i>Amaryllis belladonna</i> (Belladonna Lily)	Y		
50.	6209	<i>Ammi majus</i> (Bishop's Weed)	Y		
51.	4584	<i>Amperea conferta</i>			
52.	4586	<i>Amperea micrantha</i>		P2	
53.	13380	<i>Amphibromus nervosus</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
54.	194	<i>Amphipogon amphipogonoides</i>			
55.	197	<i>Amphipogon debilis</i>			
56.	200	<i>Amphipogon turbinatus</i>			
57.	1062	<i>Anarthria prolifera</i>			
58.	6306	<i>Andersonia caerulea</i> (Foxtails)			
59.	25844	<i>Andersonia caerulea</i> subsp. <i>caerulea</i>			
60.	18102	<i>Andersonia ferricola</i>		P1	
61.	6312	<i>Andersonia involucreta</i>			
62.	6317	<i>Andersonia micrantha</i>			
63.	7829	<i>Angianthus drummondii</i>		P3	
64.	1407	<i>Anigozanthos flavidus</i> (Tall Kangaroo Paw)			
65.	1411	<i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw)			
66.	1416	<i>Anigozanthos viridis</i> (Green Kangaroo Paw)			
67.	11566	<i>Anigozanthos viridis</i> subsp. <i>viridis</i>			
68.	6949	<i>Anthocercis littorea</i> (Yellow Tailflower)			
69.	12724	<i>Anthotium junciforme</i>		P4	
70.	202	<i>Anthoxanthum odoratum</i> (Sweet Vernal Grass)	Y		
71.	19887	<i>Anthriscus caucalis</i>	Y		Y
72.	3686	<i>Aotus cordifolia</i>			
73.	3688	<i>Aotus gracillima</i>			
74.	1117	<i>Aphelia cyperoides</i>			
75.	1118	<i>Aphelia drummondii</i>			
76.	141	<i>Aponogeton hexatepalus</i> (Stalked Water Ribbons)		P4	
77.	7838	<i>Arctotheca calendula</i> (Cape Weed)	Y		
78.	8779	<i>Asparagus asparagoides</i> (Bridal Creeper)	Y		
79.	20249	<i>Astartea leptophylla</i>			
80.	20283	<i>Astartea scoparia</i>			
81.	7851	<i>Asteridea pulverulenta</i> (Common Bristle Daisy)			
82.	6323	<i>Astroloma ciliatum</i> (Candle Cranberry)			
83.	6325	<i>Astroloma drummondii</i>			
84.	6334	<i>Astroloma pallidum</i> (Kick Bush)			
85.	17951	<i>Austrodanthonia acerosa</i>			
86.	17950	<i>Austrodanthonia caespitosa</i>			
87.	17949	<i>Austrodanthonia occidentalis</i>			
88.	17948	<i>Austrodanthonia pilosa</i>			
89.	17945	<i>Austrodanthonia setacea</i>			
90.	17233	<i>Austrostipa campylachne</i>			
91.	17234	<i>Austrostipa compressa</i>			
92.	17240	<i>Austrostipa flavescent</i>			
93.	17253	<i>Austrostipa semibarbata</i>			
94.	37421	<i>Austrostipa</i> sp. <i>Marchagee</i> (B.R. Maslin 1407)			
95.	233	<i>Avena barbata</i> (Bearded Oat)	Y		
96.	234	<i>Avena fatua</i> (Wild Oat)	Y		
97.	36441	<i>Babingtonia camphorosmae</i> (Camphor Myrtle)			
98.	1382	<i>Baeometra uniflora</i>	Y		
99.	1800	<i>Banksia attenuata</i> (Slender Banksia)			
100.	32580	<i>Banksia dallanneyi</i> var. <i>dallanneyi</i>			
101.	1819	<i>Banksia grandis</i> (Bull Banksia)			
102.	1822	<i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
103.	1830	<i>Banksia littoralis</i> (Swamp Banksia)			
104.	32080	<i>Banksia sessilis</i> var. <i>sessilis</i>			
105.	32046	<i>Banksia squarrosa</i> subsp. <i>argillacea</i>		T	
106.	32315	<i>Barbula calycina</i>			
107.	15037	<i>Bartsia trivago</i>	Y		
108.	739	<i>Baumea acuta</i> (Pale Twig-rush)			
109.	741	<i>Baumea articulata</i> (Jointed Rush)			
110.	747	<i>Baumea rubiginosa</i>			
111.	748	<i>Baumea vaginalis</i> (Sheath Twigrush)			
112.	5392	<i>Beaufortia sparsa</i> (Swamp Bottlebrush)			
113.	25798	<i>Billardiera fusiformis</i> (Australian Bluebell)			
114.	3165	<i>Billardiera variifolia</i>			
115.	20026	<i>Blennospora doliiformis</i>		P3	
116.	749	<i>Bolboschoenus caldwellii</i> (Marsh Club-rush)			
117.	14535	<i>Bolboschoenus medianus</i>			
118.	16313	<i>Boronia anceps</i>		P3	
119.	4407	<i>Boronia capitata</i> (Cluster Boronia)			
120.	4413	<i>Boronia crenulata</i> (Aniseed Boronia)			
121.	17653	<i>Boronia crenulata</i> subsp. <i>pubescens</i>			
122.	4415	<i>Boronia defoliata</i>			
123.	4417	<i>Boronia dichotoma</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
124.	4420	<i>Boronia fastigiata</i> (Bushy Boronia)			
125.	16618	<i>Boronia humifusa</i>		P1	
126.	4438	<i>Boronia ramosa</i>			
127.	4441	<i>Boronia spathulata</i> (Boronia)			
128.	17804	<i>Boronia tetragona</i>		P3	
129.	1272	<i>Borya scirpoidea</i>			
130.	3710	<i>Bossiaea eriocarpa</i> (Common Brown Pea)			
131.	3714	<i>Bossiaea ornata</i> (Broad Leaved Brown Pea)			
132.	3718	<i>Bossiaea rufa</i>			
133.	18497	<i>Bossiaea</i> sp. Waroona (B.J. Keighery & N. Gibson 229)			
134.	10915	<i>Brachychiton populneus</i> (Kurrajong)	Y		
135.	6341	<i>Brachyloma preissii</i> (Globe Heath)			
136.	30142	<i>Brachyloma preissii</i> subsp. <i>obtusifolium</i>			
137.	7878	<i>Brachyscome iberidifolia</i>			
138.	3000	<i>Brassica tournefortii</i> (Mediterranean Turnip)	Y		
139.	244	<i>Briza maxima</i> (Blowfly Grass)	Y		
140.	245	<i>Briza minor</i> (Shivery Grass)	Y		
141.	247	<i>Bromus arenarius</i> (Sand Brome)			
142.	249	<i>Bromus diandrus</i> (Great Brome)	Y		
143.	1366	<i>Bulbine semibarbata</i> (Leek Lily)			
144.	12770	<i>Burchardia congesta</i>			
145.	1384	<i>Burchardia monantha</i>			
146.	1385	<i>Burchardia multiflora</i> (Dwarf Burchardia)			
147.	1276	<i>Caesia micrantha</i> (Pale Grass-lily)			
148.	1277	<i>Caesia occidentalis</i>			
149.	3002	<i>Cakile maritima</i> (Sea Rocket)	Y		
150.	15332	<i>Caladenia attingens</i> subsp. <i>attingens</i>			
151.	11038	<i>Caladenia bicalliata</i>			
152.	15335	<i>Caladenia brownii</i>			
153.	13615	<i>Caladenia busselliana</i>		T	
154.	15579	<i>Caladenia chapmanii</i>			
155.	1586	<i>Caladenia discoidea</i> (Dancing Orchid)			
156.	1592	<i>Caladenia flava</i> (Cowslip Orchid)			
157.	15348	<i>Caladenia flava</i> subsp. <i>flava</i>			
158.	15352	<i>Caladenia georgei</i>			
159.	15354	<i>Caladenia hirta</i> subsp. <i>hirta</i>			
160.	1596	<i>Caladenia huegelii</i> (Grand Spider Orchid)		T	
161.	1599	<i>Caladenia latifolia</i> (Pink Fairy Orchid)			
162.	1602	<i>Caladenia longicauda</i> (Common White Spider Orchid)			
163.	13859	<i>Caladenia longicauda</i> subsp. <i>clivicola</i>			
164.	15365	<i>Caladenia longicauda</i> subsp. <i>longicauda</i>			
165.	1603	<i>Caladenia longiclavata</i> (Clubbed Spider Orchid)			
166.	15369	<i>Caladenia lorea</i>			
167.	1608	<i>Caladenia nana</i> (Pink Fan Orchid)			
168.	15372	<i>Caladenia nana</i> subsp. <i>unita</i>			
169.	17760	<i>Caladenia nobilis</i>			
170.	15503	<i>Caladenia paludosa</i>			
171.	18026	<i>Caladenia pendens</i> subsp. <i>pendens</i>			
172.	1613	<i>Caladenia reptans</i> (Little Pink Fairy Orchid)			
173.	15377	<i>Caladenia reptans</i> subsp. <i>reptans</i>			
174.	15379	<i>Caladenia serotina</i>			
175.	13862	<i>Caladenia speciosa</i>		P4	
176.	18019	<i>Caladenia vulgata</i>			
177.	2845	<i>Calandrinia brevipedata</i> (Short-stalked Purslane)			
178.	1213	<i>Calcectasia cyanea</i> (Blue Tinsel Lily)		T	
179.	19309	<i>Calcectasia narragara</i>			
180.	34942	<i>Callitriche brutia</i> subsp. <i>brutia</i>	Y		
181.	4717	<i>Callitriche stagnalis</i> (Common Starwort)	Y		
182.	36520	<i>Callitris acuminata</i> (Dwarf Cypress)			
183.	26534	<i>Callophycus dorsifer</i>			
184.	5415	<i>Calothamnus lateralis</i>			
185.	35163	<i>Calothamnus planifolius</i> var. <i>pallidifolius</i>			
186.	5426	<i>Calothamnus quadrifidus</i> (One-sided Bottlebrush)			
187.	35796	<i>Calothamnus quadrifidus</i> subsp. <i>teretifolius</i>		P4	
188.	5429	<i>Calothamnus sanguineus</i> (Silky-leaved Blood flower)			
189.	16493	<i>Calycoplepus oligandrus</i>			
190.	5458	<i>Calytrix flavescens</i> (Summer Starflower)			
191.	5460	<i>Calytrix fraseri</i> (Pink Summer Calytrix)			
192.	5465	<i>Calytrix leschenaultii</i>			
193.	19974	<i>Calytrix</i> sp. Tutunup (G.J. Keighery & N. Gibson 2953)		P2	

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
194.	5483	<i>Calytrix tetragona</i> (Common Fringe-myrtle)			
195.	32338	<i>Campylopus introflexus</i>	Y		
196.	7909	<i>Carduus pycnocephalus</i> (Slender Thistle)	Y		
197.	756	<i>Carex inversa</i> (Knob Sedge)			
198.	757	<i>Carex preissii</i>			
199.	758	<i>Carex pumila</i> (Strand Sedge)			
200.	2798	<i>Carpobrotus virens</i> (Coastal Pigface)			
201.	1162	<i>Cartonema phylloides</i>			
202.	2952	<i>Cassytha glabella</i> (Tangled Dodder Laurel)			
203.	2957	<i>Cassytha racemosa</i> (Dodder Laurel)			
204.	11242	<i>Cassytha racemosa forma pilosa</i>			
205.	11799	<i>Cassytha racemosa forma racemosa</i>			
206.	26574	<i>Caulerpa scalpelliformis</i>			
207.	13766	<i>Caustis sp. Boyanup</i> (G.S. McCutcheon 1706)		P3	
208.	7916	<i>Centaurea melitensis</i> (Maltese Cockspur)	Y		
209.	6539	<i>Centaurium erythraea</i> (Common Centaury)	Y		
210.	7918	<i>Centipeda cunninghamii</i> (Common Sneezewood)			
211.	7366	<i>Centranthus macrosiphon</i>	Y		
212.	1121	<i>Centrolepis aristata</i> (Pointed Centrolepis)			
213.	1125	<i>Centrolepis drummondiana</i>			
214.	1129	<i>Centrolepis glabra</i> (Smooth Centrolepis)			
215.	1134	<i>Centrolepis polygyna</i> (Wiry Centrolepis)			
216.	2889	<i>Cerastium glomeratum</i> (Mouse Ear Chickweed)	Y		
217.	17685	<i>Chaetantheria aristata</i>			
218.	1065	<i>Chaetantheria leptocarpoides</i>			
219.	1280	<i>Chamaescilla corymbosa</i> (Blue Squill)			
220.	19338	<i>Chamaescilla gibsonii</i>		P3	
221.	1217	<i>Chamaexeros serra</i> (Little Fringe-leaf)			
222.	35857	<i>Chamaelucium sp. Yoongarillup</i> (G.J. Keighery 3635)		P4	
223.	26616	<i>Champia affinis</i>			
224.	31	<i>Cheilanthes austrotenuifolia</i>			
225.	2490	<i>Chenopodium glaucum</i> (Glaucous Goosefoot)	Y		
226.	2491	<i>Chenopodium macrospermum</i>	Y		
227.	7925	<i>Chondrilla juncea</i> (Skeleton Weed)	Y		
228.	17686	<i>Chordifex gracilior</i>		P3	
229.	17689	<i>Chordifex laxus</i>			
230.	763	<i>Chorizandra enodis</i> (Black Bristlerush)			
231.	8971	<i>Chorizema cordatum</i>			
232.	3757	<i>Chorizema glycinifolium</i>			
233.	3761	<i>Chorizema rhombeum</i>			
234.	6543	<i>Cicendia filiformis</i> (Slender Cicendia)	Y		
235.	26655	<i>Cladophora montagneana</i>			
236.	26674	<i>Codium harveyi</i>			
237.	4550	<i>Comesperma calymega</i> (Blue-spike Milkwort)			
238.	4564	<i>Comesperma virgatum</i> (Milkwort)			
239.	4566	<i>Comesperma volubile</i> (Love Creeper)			
240.	16878	<i>Conospermum caeruleum</i> subsp. <i>spathulatum</i>			
241.	1863	<i>Conospermum capitatum</i>			
242.	16850	<i>Conospermum flexuosum</i> subsp. <i>laevigatum</i>			
243.	1883	<i>Conospermum teretifolium</i> (Spider Smokebush)			
244.	6348	<i>Conostephium pendulum</i> (Pearl Flower)			
245.	1418	<i>Conostylis aculeata</i> (Prickly Conostylis)			
246.	11826	<i>Conostylis aculeata</i> subsp. <i>aculeata</i>			
247.	12109	<i>Conostylis aculeata</i> subsp. <i>preissii</i>			
248.	1427	<i>Conostylis candicans</i> (Grey Cottonhead)			
249.	1438	<i>Conostylis laxiflora</i>			
250.	1453	<i>Conostylis serrulata</i>			
251.	1454	<i>Conostylis setigera</i> (Bristly Cottonhead)			
252.	11597	<i>Conostylis setigera</i> subsp. <i>setigera</i>			
253.	19881	<i>Convolvulus angustissimus</i> subsp. <i>angustissimus</i>			
254.	20074	<i>Conyza sumatrensis</i>	Y		
255.	2891	<i>Corrigiola litoralis</i> (Strapwort)	Y		
256.	277	<i>Cortaderia selloana</i> (Pampas Grass)	Y		
257.	12945	<i>Corybas recurvus</i>			
258.	17104	<i>Corymbia calophylla</i> (Marri)			
259.	17105	<i>Corymbia haematocylon</i> (Mountain Marri)			
260.	1285	<i>Corynotheca micrantha</i> (Sand Lily)			
261.	11883	<i>Corynotheca micrantha</i> var. <i>elongata</i>			
262.	7943	<i>Cotula australis</i> (Common Cotula)			
263.	7944	<i>Cotula bipinnata</i> (Ferny Cotula)	Y		

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264.	7945	<i>Cotula coronopifolia</i> (Waterbuttons)	Y		
265.	7947	<i>Cotula turbinata</i> (Funnel Weed)	Y		
266.	13354	<i>Craspedia variabilis</i>			
267.	17701	<i>Crassula closiana</i>			
268.	3137	<i>Crassula colorata</i> (Dense Stonecrop)			
269.	11349	<i>Crassula decumbens</i> var. <i>decumbens</i>			
270.	3142	<i>Crassula natans</i>	Y		
271.	278	<i>Crypsis schoenoides</i>	Y		
272.	13484	<i>Cryptandra arbutiflora</i> var. <i>tubulosa</i>			
273.	1627	<i>Cryptostylis ovata</i> (Slipper Orchid)			
274.	26712	<i>Curdiea obesa</i>			
275.	15114	<i>Cyanicula gemmata</i>			
276.	15404	<i>Cyanicula sericea</i>			
277.	768	<i>Cyathochaeta avenacea</i>			
278.	769	<i>Cyathochaeta clandestina</i>			
279.	16245	<i>Cyathochaeta teretifolia</i>		P3	
280.	285	<i>Cynosurus echinatus</i> (Rough Dogtail)	Y		
281.	792	<i>Cyperus eragrostis</i> (Umbrella Sedge)	Y		
282.	815	<i>Cyperus tenellus</i> (Tiny Flatsedge)	Y		
283.	10916	<i>Cyrtostylis huegelii</i>			
284.	17692	<i>Cytogonidium leptocarpoides</i>			
285.	287	<i>Dactylis glomerata</i> (Cocksfoot)	Y		
286.	7428	<i>Dampiera coronata</i> (Wedge-leaved Dampiera)			
287.	7454	<i>Dampiera linearis</i> (Common Dampiera)			
288.	7462	<i>Dampiera pedunculata</i>			
289.	7484	<i>Dampiera trigona</i> (Angled-stem Dampiera)			
290.	5519	<i>Darwinia oederoides</i>			
291.	1218	<i>Dasypogon bromeliifolius</i> (Pineapple Bush)			
292.	1219	<i>Dasypogon hookeri</i> (Pineapple Bush)			
293.	6218	<i>Daucus glochidiatus</i> (Australian Carrot)			
294.	3793	<i>Daviesia angulata</i>			
295.	3805	<i>Daviesia decurrens</i> (Prickly Bitter-pea)			
296.	3807	<i>Daviesia divaricata</i> (Mamo)			
297.	18560	<i>Daviesia divaricata</i> subsp. <i>divaricata</i>			
298.	14529	<i>Daviesia elongata</i> subsp. <i>elongata</i>		T	
299.	3814	<i>Daviesia hakeoides</i>			
300.	11879	<i>Daviesia hakeoides</i> subsp. <i>hakeoides</i>			
301.	3816	<i>Daviesia incrassata</i>			
302.	3817	<i>Daviesia inflata</i>			
303.	16585	<i>Daviesia nudiflora</i> subsp. <i>nudiflora</i>			
304.	3832	<i>Daviesia physodes</i>			
305.	3835	<i>Daviesia preissii</i>			
306.	3839	<i>Daviesia rhombifolia</i>			
307.	17691	<i>Desmocladius fasciculatus</i>			
308.	16595	<i>Desmocladius flexuosus</i>			
309.	299	<i>Deyeuxia quadriseta</i> (Reed Bentgrass)			
310.	1259	<i>Dianella revoluta</i> (Blueberry Lily)			
311.	7487	<i>Diaspasis filifolia</i> (Thread-leaved Diaspasis)			
312.	306	<i>Dichelachne crinita</i> (Longhair Plumegrass)			
313.	8616	<i>Dichondra repens</i> (Kidney Weed)			
314.	1287	<i>Dichopogon capillipes</i>			
315.	1289	<i>Dichopogon preissii</i>			
316.	32346	<i>Didymodon torquatus</i>			
317.	320	<i>Digitaria sanguinalis</i> (Crab Grass)	Y		
318.	19852	<i>Dillwynia</i> sp. <i>Capel</i> (P.A. Jurjevich 1771)		P1	
319.	3866	<i>Dillwynia uncinata</i> (Silky Parrot Pea)			
320.	18307	<i>Dimorphotheca ecklonis</i>	Y		
321.	4454	<i>Diplolaena dampieri</i> (Southern Diplolaena)			
322.	15268	<i>Diplolaena graniticola</i>			
323.	19649	<i>Disa bracteata</i>	Y		
324.	7054	<i>Dischisma arenarium</i>	Y		
325.	12944	<i>Diuris amplissima</i>			
326.	11049	<i>Diuris corymbosa</i>			
327.	10796	<i>Diuris drummondii</i> (Tall Donkey Orchid)		T	
328.	10938	<i>Diuris filifolia</i> (Cat's Face Orchid)			
329.	1634	<i>Diuris laxiflora</i> (Bee Orchid)			
330.	1635	<i>Diuris longifolia</i> (Common Donkey Orchid)			
331.	1639	<i>Drakaea elastica</i> (Glossy-leaved Hammer Orchid)		T	
332.	1640	<i>Drakaea glyptodon</i> (King-in-his-carriage)			
333.	11156	<i>Drakaea livida</i>			

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334.	13635	<i>Drakaea micrantha</i>		T	
335.	3091	<i>Drosera bulbigena</i> (Midget Sundew)			
336.	3095	<i>Drosera erythrorhiza</i> (Red Ink Sundew)			
337.	13217	<i>Drosera erythrorhiza</i> subsp. <i>erythrorhiza</i>			
338.	3097	<i>Drosera gigantea</i> (Giant Sundew)			
339.	16244	<i>Drosera gigantea</i> subsp. <i>geniculata</i>			
340.	15453	<i>Drosera gigantea</i> subsp. <i>gigantea</i>			
341.	3102	<i>Drosera huegelii</i> (Bold Sundew)			
342.	3106	<i>Drosera macrantha</i> (Bridal Rainbow)			
343.	14298	<i>Drosera macrantha</i> subsp. <i>macrantha</i>			
344.	3108	<i>Drosera marchantii</i>			
345.	13209	<i>Drosera marchantii</i> subsp. <i>marchantii</i>			
346.	13216	<i>Drosera menziesii</i> subsp. <i>penicillaris</i>			
347.	3112	<i>Drosera myriantha</i> (Star Rainbow)			
348.	3117	<i>Drosera paleacea</i> (Dwarf Sundew)			
349.	13187	<i>Drosera paleacea</i> subsp. <i>trichocaulis</i>			
350.	3118	<i>Drosera pallida</i> (Pale Rainbow)			
351.	8911	<i>Drosera rosulata</i>			
352.	3131	<i>Drosera stolonifera</i> (Leafy Sundew)			
353.	11368	<i>Dysphania glomulifera</i> subsp. <i>glomulifera</i>			
354.	33517	<i>Dysphania multifida</i> (Scented Goosefoot)	Y		
355.	33480	<i>Dysphania pumilio</i> (Clammy Goosefoot)			
356.	347	<i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
357.	349	<i>Ehrharta longiflora</i> (Annual Veldt Grass)	Y		
358.	5187	<i>Elatine gratioloides</i> (Waterwort)			
359.	822	<i>Eleocharis acuta</i> (Common Spikerush)			
360.	17605	<i>Eleocharis keigheryi</i>		T	
361.	1643	<i>Elythranchia brunonis</i> (Purple Enamel Orchid)			
362.	6131	<i>Epilobium billardioreanum</i> (Glabrous Willow Herb)			
363.	11756	<i>Epilobium billardioreanum</i> subsp. <i>cinereum</i> (Variable Willow Herb)			
364.	11992	<i>Epilobium billardioreanum</i> subsp. <i>intermedium</i>			
365.	376	<i>Eragrostis curvula</i> (African Lovegrass)	Y		
366.	13950	<i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>			
367.	5541	<i>Eremaea pauciflora</i>			
368.	17175	<i>Eremophila glabra</i> subsp. <i>albicans</i>			
369.	1646	<i>Eriochilus dilatatus</i> (White Bunny Orchid)			
370.	15410	<i>Eriochilus dilatatus</i> subsp. <i>dilatatus</i>			
371.	15411	<i>Eriochilus dilatatus</i> subsp. <i>magnus</i>			
372.	15412	<i>Eriochilus dilatatus</i> subsp. <i>multiflorus</i>			
373.	4332	<i>Erodium botrys</i> (Long Storksbill)	Y		
374.	4333	<i>Erodium cicutarium</i> (Common Storksbill)	Y		
375.	19602	<i>Eryngium ferox</i>		P3	
376.	6219	<i>Eryngium pinnatifidum</i> (Blue Devils)			
377.	15446	<i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>			
378.	13538	<i>Eucalyptus decipiens</i> subsp. <i>chalara</i>			
379.	5625	<i>Eucalyptus diversicolor</i> (Karri)			
380.	5659	<i>Eucalyptus gomphocephala</i> (Tuart)			
381.	5688	<i>Eucalyptus laevis</i> (Darling Range Ghost Gum)			
382.	5708	<i>Eucalyptus marginata</i> (Jarrah)			
383.	13547	<i>Eucalyptus marginata</i> subsp. <i>marginata</i> (Jarrah)			
384.	5763	<i>Eucalyptus rudis</i> (Flooded Gum)			
385.	3872	<i>Euchilopsis linearis</i> (Swamp Pea)			
386.	15137	<i>Euchiton sphaericus</i>			
387.	4636	<i>Euphorbia paralias</i> (Sea Spurge)	Y		
388.	3876	<i>Eutaxia epacridoides</i>			
389.	3880	<i>Eutaxia virgata</i>			
390.	835	<i>Evandra pauciflora</i>			
391.	10907	<i>Exocarpos odoratus</i> (Scented Ballart)			
392.	10765	<i>Exocarpos sparteus</i> (Broom Ballart)			
393.	1515	<i>Ferraria crispa</i> (Black Flag)	Y		
394.	20216	<i>Ficinia nodosa</i> (Knotted Club Rush)			
395.	7974	<i>Filago gallica</i>	Y		
396.	1945	<i>Franklandia triaristata</i> (Lanoline Bush)		P4	
397.	18392	<i>Freesia alba</i> x <i>leichtlinii</i>	Y		
398.	2969	<i>Fumaria capreolata</i> (Whiteflower Fumitory)	Y		
399.	32370	<i>Funaria hygrometrica</i>			
400.	902	<i>Gahnia decomposita</i>			
401.	7321	<i>Galium divaricatum</i>	Y		
402.	7323	<i>Galium murale</i> (Small Goosegrass)	Y		
403.	25797	<i>Galium spurium</i>	Y		

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404.	3891	<i>Gastrolobium bilobum</i> (Heart Leaf Poison)			
405.	19190	<i>Gastrolobium cuneatum</i>			
406.	20473	<i>Gastrolobium ebracteolatum</i>			
407.	20510	<i>Gastrolobium modestum</i>		T	
408.	20512	<i>Gastrolobium praemorsum</i>			
409.	3936	<i>Genista linifolia</i> (Flaxleaf Broom)	Y		
410.	4339	<i>Geranium molle</i> (Dove's Foot Cranesbill)	Y		
411.	4340	<i>Geranium retrorsum</i>			
412.	26854	<i>Gigartina disticha</i>			
413.	11919	<i>Gladiolus communis</i> subsp. <i>byzantinus</i>	Y		Y
414.	1523	<i>Gladiolus tristis</i> (Largeflower Gladiolus)	Y		
415.	33620	<i>Glischrocaryon angustifolium</i>			
416.	7060	<i>Glossostigma diandrum</i>			
417.	17043	<i>Glyceria declinata</i>	Y		
418.	3948	<i>Gompholobium capitatum</i>			
419.	10909	<i>Gompholobium confertum</i>			
420.	19216	<i>Gompholobium cyaninum</i>			
421.	3950	<i>Gompholobium knightianum</i>			
422.	3951	<i>Gompholobium marginatum</i>			
423.	3953	<i>Gompholobium ovatum</i>			
424.	3954	<i>Gompholobium polymorphum</i>			
425.	3955	<i>Gompholobium preissii</i>			
426.	11083	<i>Gompholobium scabrum</i>			
427.	3956	<i>Gompholobium shuttleworthii</i>			
428.	3957	<i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			
429.	6159	<i>Gonocarpus nodulosus</i>			
430.	6160	<i>Gonocarpus paniculatus</i>			
431.	7505	<i>Goodenia eatoniana</i>			
432.	7517	<i>Goodenia incana</i> (Hoary Goodenia)			
433.	12551	<i>Goodenia micrantha</i>			
434.	7538	<i>Goodenia pulchella</i>			
435.	19286	<i>Goodenia pulchella</i> subsp. <i>Coastal Plain A</i> (M. Hislop 634)			
436.	19284	<i>Goodenia pulchella</i> subsp. <i>Coastal Plain B</i> (L.W. Sage 2336)			
437.	26871	<i>Gracilaria flagelliformis</i>			
438.	19628	<i>Grevillea bipinnatifida</i> subsp. <i>bipinnatifida</i>			
439.	12219	<i>Grevillea bronwenae</i>		P2	
440.	1992	<i>Grevillea diversifolia</i> (Variable-leaved Grevillea)			
441.	13427	<i>Grevillea manglesioides</i> subsp. <i>manglesioides</i>			
442.	2066	<i>Grevillea pilulifera</i> (Woolly-flowered Grevillea)			
443.	2078	<i>Grevillea pulchella</i> (Beautiful Grevillea)			
444.	15990	<i>Grevillea pulchella</i> subsp. <i>ascendens</i>			
445.	2080	<i>Grevillea quercifolia</i> (Oak-leaf Grevillea)			
446.	2112	<i>Grevillea trifida</i>			
447.	2119	<i>Grevillea vestita</i>			
448.	12824	<i>Grevillea vestita</i> subsp. <i>vestita</i>			
449.	1468	<i>Haemodorum laxum</i>			
450.	1472	<i>Haemodorum simplex</i>			
451.	1474	<i>Haemodorum sparsiflorum</i>			
452.	1475	<i>Haemodorum spicatum</i> (Mardja)			
453.	2128	<i>Hakea amplexicaulis</i> (Prickly Hakea)			
454.	2152	<i>Hakea cyclocarpa</i> (Ramshorn)			
455.	2179	<i>Hakea marginata</i>			
456.	2197	<i>Hakea prostrata</i> (Harsh Hakea)			
457.	2212	<i>Hakea sulcata</i> (Furrowed Hakea)			
458.	2216	<i>Hakea varia</i> (Variable-leaved Hakea)			
459.	26890	<i>Halimeda cuneata</i>			
460.	3961	<i>Hardenbergia comptoniana</i> (Native Wisteria)			
461.	12016	<i>Helianthus debilis</i> subsp. <i>cucumerifolius</i>	Y		
462.	29594	<i>Helichrysum luteoalbum</i> (Jersey Cudweed)			
463.	3016	<i>Heliophila pusilla</i>	Y		
464.	6839	<i>Hemiandra pungens</i> (Snakebush)			
465.	6866	<i>Hemigenia pritzelii</i>			
466.	6868	<i>Hemigenia rigida</i>		P1	
467.	5108	<i>Hibbertia acerosa</i> (Needle Leaved Guinea Flower)			
468.	5109	<i>Hibbertia amplexicaulis</i>			
469.	5112	<i>Hibbertia aurea</i>			
470.	5114	<i>Hibbertia commutata</i>			
471.	5117	<i>Hibbertia cuneiformis</i> (Cutleaf Hibbertia)			
472.	5118	<i>Hibbertia cunninghamii</i>			
473.	20051	<i>Hibbertia diamesogenos</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
474.	5125 <i>Hibbertia ferruginea</i>			
475.	5129 <i>Hibbertia glomerata</i>			
476.	19778 <i>Hibbertia glomerata</i> subsp. <i>darlingensis</i>			
477.	5134 <i>Hibbertia huegelii</i>			
478.	5135 <i>Hibbertia hypericoides</i> (Yellow Buttercups)			
479.	20032 <i>Hibbertia pulchra</i> var. <i>pulchra</i>			
480.	5161 <i>Hibbertia quadricolor</i>			
481.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
482.	5172 <i>Hibbertia stellaris</i> (Orange Stars)			
483.	5176 <i>Hibbertia vaginata</i>			
484.	1294 <i>Hodgsoniola junciformis</i>			
485.	6222 <i>Homalosciadium homalocarpum</i>			
486.	8476 <i>Hordeum hystrix</i> (Mediterranean Region Barley Grass)	Y		
487.	3964 <i>Hovea chorizemifolia</i> (Holly-leaved Hovea)			
488.	3966 <i>Hovea pungens</i> (Devil's Pins)			
489.	3968 <i>Hovea trisperma</i> (Common Hovea)			
490.	12907 <i>Hovea trisperma</i> var. <i>grandiflora</i>			
491.	12741 <i>Hyalosperma cotula</i>			
492.	16759 <i>Hyalosperma simplex</i> subsp. <i>simplex</i>			
493.	5216 <i>Hybanthus calycinus</i> (Wild Violet)			
494.	6223 <i>Hydrocotyle alata</i>			
495.	6226 <i>Hydrocotyle callicarpa</i> (Small Pennywort)			
496.	6229 <i>Hydrocotyle diantha</i>			
497.	11546 <i>Hydrocotyle pilifera</i> var. <i>glabrata</i>			
498.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle)			
499.	35070 <i>Hypocalymma angustifolium</i> subsp. <i>Swan Coastal Plain</i> (G.J. Keighery 16777)			
500.	5819 <i>Hypocalymma ericifolium</i>			
501.	5825 <i>Hypocalymma robustum</i> (Swan River Myrtle)			
502.	8086 <i>Hypochaeris glabra</i> (Smooth Catsear)	Y		
503.	16835 <i>Hypolaena caespitosa</i>			
504.	1070 <i>Hypolaena exsulca</i>			
505.	17841 <i>Hypolaena pubescens</i>			
506.	1500 <i>Hypoxis glabella</i> (Tiny Star)			
507.	1503 <i>Hypoxis occidentalis</i>			
508.	11736 <i>Hypoxis occidentalis</i> var. <i>occidentalis</i>			
509.	11845 <i>Hypoxis occidentalis</i> var. <i>quadriloba</i>			
510.	11901 <i>Hypoxis vaginata</i> var. <i>vaginata</i>			
511.	11 <i>Isoetes drummondii</i> (Quillwort)			
512.	17903 <i>Isoetes drummondii</i> subsp. <i>drummondii</i>			
513.	910 <i>Isolepis cernua</i> (Nodding Club-rush)			
514.	20199 <i>Isolepis cernua</i> var. <i>cernua</i>			
515.	20200 <i>Isolepis cernua</i> var. <i>setiformis</i>			
516.	912 <i>Isolepis cyperoides</i>			
517.	20198 <i>Isolepis fluitans</i> var. <i>fluitans</i>			
518.	917 <i>Isolepis marginata</i> (Coarse Club-rush)	Y		
519.	919 <i>Isolepis oldfieldiana</i>			
520.	921 <i>Isolepis producta</i>			
521.	924 <i>Isolepis stellata</i> (Star Club-rush)			
522.	16522 <i>Isopogon formosus</i> subsp. <i>dasylepis</i>		P3	
523.	2237 <i>Isopogon sphaerocephalus</i> (Drumstick Isopogon)			
524.	7398 <i>Isotoma pusilla</i> (Small Isotome)			
525.	7399 <i>Isotoma scapigera</i> (Long-scaped Isotome)			
526.	3992 <i>Isotropis cuneifolia</i> (Granny Bonnets)			
527.	19700 <i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>			
528.	1532 <i>Ixia maculata</i> (Yellow Ixia)	Y		
529.	1533 <i>Ixia paniculata</i>	Y		
530.	1534 <i>Ixia polystachya</i> (Variable Ixia)	Y		
531.	8092 <i>Ixiolaena viscosa</i> (Sticky Ixiolaena)			
532.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
533.	20462 <i>Jacksonia gracillima</i>		P3	
534.	4017 <i>Jacksonia horrida</i>			
535.	4018 <i>Jacksonia lehmannii</i>			
536.	4027 <i>Jacksonia sericea</i> (Waldjumi)		P4	
537.	4029 <i>Jacksonia stembergiana</i> (Stinkwood)			
538.	1295 <i>Johnsonia acaulis</i>			
539.	1297 <i>Johnsonia lupulina</i> (Hooded Lily)			
540.	1178 <i>Juncus bufonius</i> (Toad Rush)	Y		
541.	1179 <i>Juncus caespiticius</i> (Grassy Rush)			
542.	1180 <i>Juncus capitatus</i> (Capitate Rush)	Y		
543.	1184 <i>Juncus holoschoenus</i> (Jointleaf Rush)			

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544.	11922	<i>Juncus kraussii</i> subsp. <i>australiensis</i>			
545.	1186	<i>Juncus microcephalus</i>	Y		
546.	1188	<i>Juncus pallidus</i> (Pale Rush)			
547.	1195	<i>Juncus subsecundus</i> (Finger Rush)			
548.	4036	<i>Kennedia carinata</i>			
549.	4037	<i>Kennedia coccinea</i> (Coral Vine)			
550.	4044	<i>Kennedia prostrata</i> (Scarlet Runner)			
551.	7068	<i>Kickxia spuria</i> (Roundleaf Toadflax)	Y		
552.	1221	<i>Kingia australis</i> (Kingia)			
553.	5832	<i>Kunzea ericifolia</i> (Spearwood)			
554.	15498	<i>Kunzea glabrescens</i> (Spearwood)			
555.	5835	<i>Kunzea micrantha</i>			
556.	17461	<i>Kunzea micrantha</i> subsp. <i>micrantha</i>			
557.	5841	<i>Kunzea recurva</i>			
558.	14776	<i>Kunzea rostrata</i>			
559.	3669	<i>Labichea punctata</i> (Lance-leaved Cassia)			
560.	13562	<i>Lachenalia aloides</i>	Y		
561.	20019	<i>Lachnagrostis filiformis</i>			
562.	19955	<i>Lachnagrostis plebeia</i>			
563.	18585	<i>Lagenophora huegellii</i>			
564.	467	<i>Lagurus ovatus</i> (Hare's Tail Grass)	Y		
565.	14083	<i>Lambertia multiflora</i> var. <i>darlingensis</i>			
566.	5038	<i>Lasiopetalum membranaceum</i>		P3	
567.	4052	<i>Latrobea tenella</i>			
568.	27001	<i>Laurencia filiformis</i>			
569.	27009	<i>Laurencia tasmanica</i>			
570.	1304	<i>Laxmannia minor</i>			
571.	1308	<i>Laxmannia sessiliflora</i> (Nodding Lily)			
572.	11464	<i>Laxmannia sessiliflora</i> subsp. <i>australis</i>			
573.	7568	<i>Lechenaultia biloba</i> (Blue Leschenaultia)			
574.	7572	<i>Lechenaultia expansa</i>			
575.	7574	<i>Lechenaultia floribunda</i> (Free-flowering Leschenaultia)			
576.	6880	<i>Leonotis leonurus</i> (Lion's Ear)	Y		
577.	925	<i>Lepidosperma angustatum</i>			
578.	930	<i>Lepidosperma costale</i>			
579.	932	<i>Lepidosperma effusum</i> (Spreading Sword-sedge)			
580.	933	<i>Lepidosperma gladiatum</i> (Coast Sword-sedge)			
581.	937	<i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
582.	940	<i>Lepidosperma pubisquamum</i>			
583.	941	<i>Lepidosperma resinosum</i>			
584.	944	<i>Lepidosperma scabrum</i>			
585.	945	<i>Lepidosperma squamatum</i>			
586.	946	<i>Lepidosperma striatum</i>			
587.	1653	<i>Leporella fimbriata</i> (Hare Orchid)			
588.	15556	<i>Leptocarpus elegans</i>			
589.	19833	<i>Leptocarpus laxus</i>			
590.	1082	<i>Leptocarpus tenax</i> (Slender Twine Rush)			
591.	15418	<i>Leptoceras menziesii</i>			
592.	2342	<i>Leptomeria cunninghamii</i>			
593.	17703	<i>Leptomeria ellytes</i>			
594.	17702	<i>Leptomeria furtiva</i>		P2	
595.	2353	<i>Leptomeria scrobiculata</i>			
596.	5850	<i>Leptospermum laevigatum</i> (Coast Teatree)	Y		
597.	1085	<i>Lepyrodia glauca</i>			
598.	1087	<i>Lepyrodia hermaphrodita</i>			
599.	1088	<i>Lepyrodia macra</i> (Large Scale Rush)			
600.	1090	<i>Lepyrodia muirii</i>			
601.	19821	<i>Lessertia frutescens</i>	Y		
602.	1493	<i>Leucojum aestivum</i> (Snowflake)	Y		
603.	6360	<i>Leucopogon australis</i> (Spiked Beard-heath)			
604.	6367	<i>Leucopogon capitellatus</i>			
605.	6374	<i>Leucopogon conostephioides</i>			
606.	6396	<i>Leucopogon glabellus</i>			
607.	6417	<i>Leucopogon obovatus</i>			
608.	6425	<i>Leucopogon oxycedrus</i>			
609.	6427	<i>Leucopogon parviflorus</i> (Coast Beard-heath)			
610.	6428	<i>Leucopogon pendulus</i>			
611.	6434	<i>Leucopogon polymorphus</i>			
612.	6436	<i>Leucopogon propinquus</i>			
613.	6439	<i>Leucopogon pulchellus</i> (Beard-heath)			

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614.	6440	<i>Leucopogon racemosus</i>			
615.	29492	<i>Leucopogon</i> sp. <i>Busseiton</i> (D. Cooper 243)			
616.	35559	<i>Leucopogon tenuicaulis</i>			
617.	7674	<i>Levenhookia preissii</i> (Preiss's Stylewort)			
618.	7676	<i>Levenhookia pusilla</i> (Midget Stylewort)			
619.	7677	<i>Levenhookia stipitata</i> (Common Stylewort)			
620.	59	<i>Lindsaea linearis</i> (Screw Fern)			
621.	7403	<i>Lobelia heterophylla</i> (Wing-seeded Lobelia)			
622.	7406	<i>Lobelia rhombifolia</i> (Tufted Lobelia)			
623.	7407	<i>Lobelia rhytidosperra</i> (Wrinked-seeded Lobelia)			
624.	7408	<i>Lobelia tenuior</i> (Slender Lobelia)			
625.	6511	<i>Logania serpyllifolia</i>			
626.	13128	<i>Logania serpyllifolia</i> subsp. <i>angustifolia</i>			
627.	29553	<i>Logania wendyae</i>		P1	
628.	476	<i>Lolium perenne</i> (Perennial Ryegrass)	Y		
629.	478	<i>Lolium rigidum</i> (Wimmera Ryegrass)	Y		
630.	11073	<i>Lolium x hybridum</i>	Y		
631.	1223	<i>Lomandra caespitosa</i> (Tufted Mat Rush)			
632.	1225	<i>Lomandra drummondii</i>			
633.	1228	<i>Lomandra hermaphrodita</i>			
634.	1232	<i>Lomandra micrantha</i> (Small-flower Mat-rush)			
635.	1234	<i>Lomandra nigricans</i>			
636.	1236	<i>Lomandra odora</i> (Tiered Matrush)			
637.	1238	<i>Lomandra pauciflora</i>			
638.	1239	<i>Lomandra preissii</i>			
639.	1240	<i>Lomandra purpurea</i> (Purple Mat Rush)			
640.	1243	<i>Lomandra sericea</i> (Silky Mat Rush)			
641.	1244	<i>Lomandra sonderi</i>			
642.	1245	<i>Lomandra spartea</i>			
643.	1246	<i>Lomandra suaveolens</i>			
644.	33298	<i>Lomandra whicheensis</i>		P1	
645.	4059	<i>Lotus angustissimus</i> (Narrowleaf Trefoil)	Y		
646.	1092	<i>Loxocarya cinerea</i>			
647.	13779	<i>Loxocarya magna</i>		P3	
648.	1198	<i>Luzula meridionalis</i> (Field Woodrush)			
649.	1097	<i>Lyginia barbata</i>			
650.	18049	<i>Lyginia imberbis</i>			
651.	36375	<i>Lysimachia arvensis</i> (Pimpernel)	Y		
652.	6456	<i>Lysinema ciliatum</i> (Curry Flower)			
653.	34736	<i>Lysinema pentapetalum</i>			
654.	2838	<i>Macarthuria apetala</i>			
655.	85	<i>Macrozamia riedlei</i> (Zamia)			
656.	74	<i>Marsilea drummondii</i> (Common Nardoo)			
657.	4079	<i>Medicago polymorpha</i> (Burr Medic)	Y		
658.	17683	<i>Meeboldina cana</i>			
659.	17679	<i>Meeboldina coangustata</i>			
660.	1098	<i>Meeboldina denmarkica</i>			
661.	17677	<i>Meeboldina royci</i>			
662.	17694	<i>Meeboldina scariosa</i>			
663.	17843	<i>Meeboldina tephрина</i>			
664.	17693	<i>Meeboldina thysanantha</i>		P3	
665.	37580	<i>Melaleuca acutifolia</i>			
666.	5921	<i>Melaleuca incana</i> (Grey Honey myrtle)			
667.	13273	<i>Melaleuca incana</i> subsp. <i>incana</i>			
668.	5922	<i>Melaleuca lanceolata</i> (Rottnest Teatree)			
669.	5926	<i>Melaleuca lateritia</i> (Robin Redbreast Bush)			
670.	18394	<i>Melaleuca parviceps</i>			
671.	5946	<i>Melaleuca pauciflora</i>			
672.	5952	<i>Melaleuca preissiana</i> (Moonah)			
673.	5959	<i>Melaleuca raphiophylla</i> (Swamp Paperbark)			
674.	5978	<i>Melaleuca teretifolia</i> (Banbar)			
675.	5980	<i>Melaleuca thymoides</i>			
676.	5983	<i>Melaleuca trichophylla</i>			
677.	13280	<i>Melaleuca viminea</i> subsp. <i>viminea</i>			
678.	17682	<i>Melanostachya ustulata</i>			
679.	4085	<i>Meililotus indicus</i>	Y		
680.	19827	<i>Meililotus siculus</i>	Y		
681.	6883	<i>Mentha pulegium</i> (Pennyroyal)	Y		
682.	953	<i>Mesomelaena graciliceps</i>			
683.	11473	<i>Mesomelaena stygia</i> subsp. <i>stygia</i>			

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684.	957	<i>Mesomelaena tetragona</i> (Semaphore Sedge)			
685.	27070	<i>Metamastophora flabellata</i>			
686.	485	<i>Microlaena stipoides</i> (Weeping Grass)			
687.	31713	<i>Microtis cupularis</i>			
688.	10954	<i>Microtis media</i> (Tall Mignonette Orchid)			
689.	15419	<i>Microtis media</i> subsp. <i>media</i>			
690.	1660	<i>Microtis orbicularis</i> (Dark Mignonette Orchid)			
691.	8105	<i>Millotia myosotidifolia</i>			
692.	8106	<i>Millotia tenuifolia</i> (Soft Millotia)			
693.	14344	<i>Millotia tenuifolia</i> var. <i>tenuifolia</i> (Soft Millotia)			
694.	4090	<i>Mirbella dilatata</i> (Holly-leaved Mirbella)			
695.	16395	<i>Mitreola minima</i>		P3	
696.	2894	<i>Moenchia erecta</i> (Erect Chickweed)	Y		
697.	7410	<i>Monopsis debilis</i>	Y		
698.	4662	<i>Monotaxis grandiflora</i> (Diamond of the Desert)			
699.	4666	<i>Monotaxis occidentalis</i>			
700.	2874	<i>Montia australasica</i>		P2	
701.	19179	<i>Moraea flaccida</i> (One-leaf Cape Tulip)	Y		
702.	19178	<i>Moraea lewisiae</i>	Y		
703.	19180	<i>Moraea miniata</i> (Two-leaf Cape Tulip)	Y		
704.	19438	<i>Moraea ochroleuca</i>	Y		
705.	2412	<i>Muehlenbeckia adpressa</i> (Climbing Lignum)			
706.	8117	<i>Myriocephalus helichrysoides</i>			
707.	6189	<i>Myriophyllum crispatum</i>			
708.	6192	<i>Myriophyllum drummondii</i>			
709.	6199	<i>Myriophyllum tillaeoides</i>			
710.	1495	<i>Narcissus tazetta</i> (Jonquil)	Y		
711.	6464	<i>Needhamiella pumilio</i>			
712.	492	<i>Neurachne alopecuroides</i> (Foxtail Mulga Grass)			
713.	2401	<i>Nuytsia floribunda</i> (Christmas Tree)			
714.	6140	<i>Oenothera mollissima</i>	Y		
715.	8127	<i>Olearia axillaris</i> (Coastal Daisybush)			
716.	8133	<i>Olearia elaeophila</i>			
717.	8150	<i>Olearia strigosa</i> (Bristly Daisy Bush)			
718.	6465	<i>Oligarrhena micrantha</i>			
719.	18254	<i>Opercularia apiciflora</i>			
720.	7348	<i>Opercularia hispidula</i> (Hispid Stinkweed)			
721.	18255	<i>Opercularia vaginata</i> (Dog Weed)			
722.	36177	<i>Ornduffia albiflora</i>			
723.	36181	<i>Ornduffia pamassifolia</i>			
724.	36200	<i>Ornduffia submersa</i>		P4	
725.	1372	<i>Ornithogalum arabicum</i> (Lesser Cape Lily)	Y		
726.	20664	<i>Ornithogalum longibracteatum</i>	Y		
727.	4113	<i>Ornithopus compressus</i> (Yellow Serradella)	Y		
728.	4114	<i>Ornithopus pinnatus</i> (Slender Serradella)	Y		
729.	7122	<i>Orobanche minor</i> (Lesser Broomrape)	Y		
730.	1537	<i>Orthrosanthus laxus</i> (Morning Iris)			
731.	27107	<i>Osmundaria prolifera</i>			
732.	168	<i>Ottelia ovalifolia</i> (Swamp Lily)			
733.	30375	<i>Oxalis exilis</i>			
734.	4352	<i>Oxalis glabra</i>	Y		
735.	4354	<i>Oxalis incarnata</i>	Y		
736.	4355	<i>Oxalis perennans</i>			
737.	4356	<i>Oxalis pes-caprae</i> (Soursob)	Y		
738.	12643	<i>Ozothamnus cordatus</i>			
739.	23500	<i>Paracaleana hortiorum</i>			
740.	1667	<i>Paracaleana nigrita</i> (Flying Duck Orchid)			
741.	20101	<i>Paragonis grandiflora</i>			
742.	3618	<i>Paraserianthes lophantha</i> (Albizia)			
743.	7089	<i>Parentucellia latifolia</i> (Common Bartsia)	Y		
744.	7090	<i>Parentucellia viscosa</i> (Sticky Bartsia)	Y		
745.	1762	<i>Parietaria debilis</i> (Pellitory)			
746.	527	<i>Paspalum dilatatum</i>	Y		
747.	528	<i>Paspalum distichum</i> (Water Couch)	Y		
748.	1542	<i>Patersonia babianoides</i>			
749.	1546	<i>Patersonia juncea</i> (Rush Leaved Patersonia)			
750.	1550	<i>Patersonia occidentalis</i> (Purple Flag)			
751.	30472	<i>Patersonia occidentalis</i> var. <i>occidentalis</i>			
752.	1553	<i>Patersonia umbrosa</i> (Yellow Flags)			
753.	11550	<i>Patersonia umbrosa</i> var. <i>xanthina</i> (Yellow Flags)			

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754.	4343	<i>Pelargonium capitatum</i> (Rose Pelargonium)	Y		
755.	536	<i>Pennisetum clandestinum</i> (Kikuyu Grass)	Y		
756.	538	<i>Pennisetum macrourum</i> (African Feather Grass)	Y		
757.	6245	<i>Pentapeltis peltigera</i>			
758.	6006	<i>Pericalymma ellipticum</i> (Swamp Teatree)			
759.	16477	<i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			
760.	16478	<i>Pericalymma ellipticum</i> var. <i>floridum</i>			
761.	13911	<i>Persicaria decipiens</i>			
762.	11052	<i>Persicaria prostrata</i>			
763.	2267	<i>Persoonia longifolia</i> (Snottygobble)			
764.	2273	<i>Persoonia saccata</i> (Snottygobble)			
765.	2299	<i>Petrophile linearis</i> (Pixie Mops)			
766.	19825	<i>Petrorhagia dubia</i>	Y		
767.	27131	<i>Phacelocarpus alatus</i>			
768.	547	<i>Phalaris angusta</i>	Y		
769.	548	<i>Phalaris aquatica</i> (Phalaris)	Y		
770.	20460	<i>Pheladenia deformis</i>			
771.	18529	<i>Philotheca spicata</i> (Pepper and Salt)			
772.	1172	<i>Philydrella drummondii</i>			
773.	14306	<i>Philydrella pygmaea</i> subsp. <i>pygmaea</i>			
774.	1478	<i>Phlebocarya ciliata</i>			
775.	1479	<i>Phlebocarya filifolia</i>			
776.	16177	<i>Phyllangium paradoxum</i>			
777.	4675	<i>Phyllanthus calycinus</i> (False Boronia)			
778.	6983	<i>Physalis peruviana</i> (Cape Gooseberry)	Y		
779.	14371	<i>Picris angustifolia</i>			
780.	8160	<i>Picris squarrosa</i>			
781.	78	<i>Pilularia novae-hollandiae</i> (Austral Pillwort)			
782.	5231	<i>Pimelea angustifolia</i> (Narrow-leaved Pimelea)			
783.	5232	<i>Pimelea argentea</i> (Silvery Leaved Pimelea)			
784.	11928	<i>Pimelea ciliata</i> subsp. <i>ciliata</i>			
785.	5249	<i>Pimelea hispida</i> (Bristly Pimelea)			
786.	5252	<i>Pimelea lanata</i>			
787.	11182	<i>Pimelea lehmanniana</i> subsp. <i>nervosa</i>			
788.	5259	<i>Pimelea preissii</i>			
789.	5261	<i>Pimelea rosea</i> (Rose Banjine)			
790.	18117	<i>Pimelea rosea</i> subsp. <i>rosea</i>			
791.	18352	<i>Pithocarpa pulchella</i> var. <i>melanostigma</i>			
792.	19745	<i>Pittosporum ligustrifolium</i>			
793.	16322	<i>Pittosporum undulatum</i>	Y		
794.	7301	<i>Plantago exilis</i>			
795.	7303	<i>Plantago lanceolata</i> (Ribwort Plantain)	Y		
796.	6249	<i>Platysace compressa</i> (Tapeworm Plant)			
797.	6253	<i>Platysace filiformis</i>			
798.	6259	<i>Platysace tenuissima</i>			
799.	33377	<i>Platytheca anasima</i>		P2	Y
800.	4524	<i>Platytheca galioides</i>			
801.	27155	<i>Plocamium cartilagineum</i>			
802.	571	<i>Poa annua</i> (Winter Grass)	Y		
803.	573	<i>Poa drummondiana</i> (Knotted Poa)			
804.	577	<i>Poa poliformis</i> (Coastal Poa)			
805.	86	<i>Podocarpus drouynianus</i> (Wild Plum)			
806.	8175	<i>Podolepis gracilis</i> (Slender Podolepis)			
807.	8182	<i>Podotheca angustifolia</i> (Sticky Longheads)			
808.	8183	<i>Podotheca chrysantha</i> (Yellow Podotheca)			
809.	2416	<i>Polygonum arenastrum</i> (Sand Wireweed)	Y		
810.	582	<i>Polypogon monspeliensis</i> (Annual Beardgrass)	Y		
811.	583	<i>Polypogon tenellus</i>			
812.	4690	<i>Poranthera huegelii</i>			
813.	27184	<i>Porphyra lucasii</i>			
814.	122	<i>Posidonia angustifolia</i>			
815.	110	<i>Potamogeton drummondii</i>			
816.	15424	<i>Praecoxanthus aphyllus</i>			
817.	1668	<i>Prasophyllum brownii</i>			
818.	1669	<i>Prasophyllum cyphochilum</i> (Pouched Leek Orchid)			
819.	1671	<i>Prasophyllum elatum</i> (Tall Leek Orchid)			
820.	1674	<i>Prasophyllum giganteum</i> (Bronze Leek Orchid)			
821.	1676	<i>Prasophyllum hians</i> (Yawning Leek Orchid)			
822.	1677	<i>Prasophyllum macrostachyum</i> (Laughing Leek Orchid)			
823.	1680	<i>Prasophyllum parvifolium</i> (Autumn Leek Orchid)			

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824.	10853	<i>Prasophyllum plumiforme</i>			
825.	57	<i>Pteridium esculentum</i> (Bracken)			
826.	45	<i>Pteris vittata</i> (Chinese Brake)			
827.	1685	<i>Pterostylis angusta</i>			
828.	15426	<i>Pterostylis aspera</i>			
829.	1686	<i>Pterostylis barbata</i> (Bird Orchid)			
830.	17267	<i>Pterostylis breviseipala</i>			
831.	11118	<i>Pterostylis pyramidalis</i> (Snail Orchid)			
832.	1693	<i>Pterostylis recurva</i> (Jug Orchid)			
833.	1694	<i>Pterostylis rogersii</i> (Curled-tongue Shell Orchid)			
834.	18557	<i>Pterostylis</i> sp. Slender Snail Orchid (G.J. Keighery 14516)			
835.	18648	<i>Pterostylis</i> sp. cauline leaves (N. Gibson & M.N. Lyons 1490)			
836.	18655	<i>Pterostylis</i> sp. crinkled leaf (G.J. Keighery 13426)			
837.	18645	<i>Pterostylis</i> sp. limestone (B.J. Keighery & G.J. Keighery 65)			
838.	18658	<i>Pterostylis</i> sp. short sepals (W. Jackson BJ259)			
839.	10998	<i>Pterostylis turfosa</i> (Bird Orchid)			
840.	1698	<i>Pterostylis vittata</i> (Banded Greenhood)			
841.	2742	<i>Ptilotus manglesii</i> (Pom Poms)			
842.	2751	<i>Ptilotus polystachyus</i> (Prince of Wales Feather)			
843.	2759	<i>Ptilotus sericostachyus</i>			
844.	15856	<i>Ptilotus sericostachyus</i> subsp. <i>sericostachyus</i>			
845.	591	<i>Puccinellia ciliata</i> (Puccinellia)	Y		
846.	4172	<i>Pultenaea ericifolia</i>			
847.	4177	<i>Pultenaea ochreate</i>			
848.	4179	<i>Pultenaea pinifolia</i>		P3	
849.	4180	<i>Pultenaea radiata</i>			
850.	4181	<i>Pultenaea reticulata</i>			
851.	4183	<i>Pultenaea skinneri</i> (Skinner's Pea)		P4	
852.	23459	<i>Pultenaea</i> sp. southern (L.A. Orthia 39)			
853.	4187	<i>Pultenaea verruculosa</i>			
854.	16367	<i>Pyrorchis nigricans</i> (Red beaks)			
855.	8195	<i>Quinetia urvillei</i>			
856.	32480	<i>Racopilum cuspidigerum</i> var. <i>convolutaceum</i>			
857.	2932	<i>Ranunculus colonorum</i> (Common Buttercup)			
858.	2935	<i>Ranunculus pumilio</i> (Smallflower Buttercup)			
859.	2578	<i>Rhagodia baccata</i> (Berry Saltbush)			
860.	11930	<i>Rhagodia baccata</i> subsp. <i>dioica</i> (Sea Berry Saltbush)			
861.	13300	<i>Rhodanthe citrina</i>			
862.	13301	<i>Rhodanthe floribunda</i>			
863.	13312	<i>Rhodanthe pyrethrum</i>		P3	
864.	27222	<i>Rhodophyllis volans</i>			
865.	13683	<i>Ricinocarpus cyanescens</i>			
866.	4705	<i>Ricinus communis</i> (Castor Oil Plant)	Y		
867.	1556	<i>Romulea rosea</i> (Guildford Grass)	Y		
868.	14924	<i>Romulea rosea</i> var. <i>communis</i>	Y		
869.	32426	<i>Rosulabryum campylotheicum</i>			
870.	11541	<i>Rumex dumosus</i> var. <i>dumosus</i>			
871.	20171	<i>Rumex pulcher</i> subsp. <i>woodsii</i>	Y		
872.	6483	<i>Samolus junceus</i>			
873.	6484	<i>Samolus repens</i> (Creeping Brookweed)			
874.	29911	<i>Samolus</i> sp. Clay Flats (G.J. & B.J. Keighery 718)			
875.	2593	<i>Sarcocornia quinqueflora</i> (Beaded Samphire)			
876.	7595	<i>Scaevola anchusifolia</i>			
877.	7602	<i>Scaevola calliptera</i>			
878.	7606	<i>Scaevola crassifolia</i> (Thick-leaved Fan-flower)			
879.	7634	<i>Scaevola phlebopetala</i> (Velvet Fanflower)			
880.	597	<i>Schismus barbatus</i> (Kelch Grass)	Y		
881.	6263	<i>Schoenolaena juncea</i>			
882.	968	<i>Schoenoplectus pungens</i> (Sharpleaf Rush)			
883.	973	<i>Schoenus asperocarpus</i> (Poison Sedge)			
884.	974	<i>Schoenus benthamii</i>		P3	
885.	975	<i>Schoenus bifidus</i>			
886.	978	<i>Schoenus brevisetis</i>			
887.	984	<i>Schoenus curvifolius</i>			
888.	985	<i>Schoenus discifer</i>			
889.	986	<i>Schoenus efolius</i>			
890.	992	<i>Schoenus grandiflorus</i> (Large Flowered Bogrush)			
891.	999	<i>Schoenus liliaceus</i>		P2	
892.	1008	<i>Schoenus pennisetis</i>		P1	
893.	17614	<i>Schoenus plumosus</i>			

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894.	1013	<i>Schoenus sculptus</i> (Gimlet Bog-rush)			
895.	1017	<i>Schoenus subbulbosus</i>			
896.	1020	<i>Schoenus sublateralis</i>			
897.	1023	<i>Schoenus tenellus</i>			
898.	1026	<i>Schoenus unispiculatus</i>			
899.	17409	<i>Schoenus variicellae</i>			
900.	6	<i>Selaginella gracillima</i> (Tiny Clubmoss)			
901.	32433	<i>Sematophyllum homomallum</i>			
902.	8203	<i>Senecio diaschides</i>	Y		
903.	8208	<i>Senecio hispidulus</i> (Hispid Fireweed)			
904.	15678	<i>Senecio hispidulus</i> var. <i>hispidulus</i>			
905.	20863	<i>Senecio multicaulis</i> subsp. <i>multicaulis</i>			
906.	20161	<i>Senecio pinnatifolius</i>			
907.	609	<i>Setaria palmifolia</i> (Palm Grass)	Y		
908.	19453	<i>Setaria parviflora</i>	Y		
909.	7362	<i>Sherardia arvensis</i> (Field Madder)	Y		
910.	2909	<i>Silene gallica</i> (French Catchfly)	Y		
911.	15972	<i>Silene gallica</i> var. <i>gallica</i>	Y		
912.	8225	<i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
913.	8226	<i>Siloxerus pygmaeus</i>			
914.	3071	<i>Sisymbrium officinale</i> (Hedge Mustard)	Y		
915.	1557	<i>Sisyrinchium exile</i>	Y		
916.	7013	<i>Solanum hoplopetalum</i> (Thorny Solanum)			
917.	7022	<i>Solanum nigrum</i> (Black Berry Nightshade)	Y		
918.	8228	<i>Solidago canadensis</i> (Goldenrod)	Y		
919.	9367	<i>Sonchus hydrophilus</i> (Native Sowthistle)			
920.	8231	<i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
921.	617	<i>Sorghum halepense</i> (Johnson Grass)	Y		
922.	1312	<i>Sowerbaea laxiflora</i> (Purple Tassels)			
923.	1558	<i>Sparaxis bulbifera</i>	Y		
924.	2912	<i>Spergula arvensis</i> (Corn Spurry)	Y		
925.	2915	<i>Spergularia rubra</i> (Sand Spurry)	Y		
926.	17551	<i>Sphaerolobium drummondii</i>			
927.	4205	<i>Sphaerolobium linophyllum</i>			
928.	4206	<i>Sphaerolobium macranthum</i>			
929.	4207	<i>Sphaerolobium medium</i>			
930.	4210	<i>Sphaerolobium scabriusculum</i>			
931.	4211	<i>Sphaerolobium vimineum</i> (Leafless Globe Pea)			
932.	31931	<i>Sphenotoma capitata</i>			
933.	31952	<i>Sphenotoma gracilis</i> (Swamp Paper-heath)			
934.	625	<i>Spinifex longifolius</i> (Beach Spinifex)			
935.	4828	<i>Spyridium globulosum</i> (Basket Bush)			
936.	20537	<i>Stachystemon virgatus</i>			
937.	4733	<i>Stackhousia monogyna</i>			
938.	4735	<i>Stackhousia scoparia</i>			
939.	19704	<i>Stenanthemum sublineare</i>		P2	
940.	19403	<i>Stenopetalum gracile</i>			
941.	18381	<i>Stenotalis ramosissima</i>			
942.	2316	<i>Stirlingia latifolia</i> (Blueboy)			
943.	25820	<i>Stylidium acuminatum</i>			
944.	7684	<i>Stylidium amoenum</i> (Lovely Triggerplant)			
945.	30278	<i>Stylidium androsaceum</i>			
946.	25831	<i>Stylidium araeophyllum</i>			
947.	7693	<i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
948.	7694	<i>Stylidium bulbiferum</i> (Circus Triggerplant)			
949.	7696	<i>Stylidium calcaratum</i> (Book Triggerplant)			
950.	7699	<i>Stylidium carnosum</i> (Fleshy-leaved Triggerplant)			
951.	7708	<i>Stylidium crassifolium</i> (Thick-leaved Triggerplant)			
952.	33819	<i>Stylidium glaucifolium</i>			
953.	7734	<i>Stylidium guttatum</i> (Dotted Triggerplant)			
954.	25801	<i>Stylidium hesperium</i>			
955.	7745	<i>Stylidium junceum</i> (Reed Triggerplant)			
956.	13083	<i>Stylidium lateriticola</i>			
957.	7756	<i>Stylidium longitubum</i> (Jumping Jacks)		P3	
958.	19248	<i>Stylidium megacarpum</i>			
959.	25829	<i>Stylidium neurophyllum</i>			
960.	7768	<i>Stylidium obtusatum</i> (Pinafore Triggerplant)			
961.	25800	<i>Stylidium paludicola</i>			
962.	7773	<i>Stylidium petiolare</i> (Horn Triggerplant)			
963.	7774	<i>Stylidium piliferum</i> (Common Butterfly Triggerplant)			

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964.	7782	<i>Stylidium pulchellum</i> (Thumbelina Triggerplant)			
965.	7785	<i>Stylidium repens</i> (Matted Triggerplant)			
966.	7796	<i>Stylidium scandens</i> (Climbing Triggerplant)			
967.	7798	<i>Stylidium schoenoides</i> (Cow Kicks)			
968.	7803	<i>Stylidium striatum</i> (Fan-leaved Triggerplant)		P4	
969.	23511	<i>Stylidium thesioides</i> (Delicate Triggerplant)			
970.	7806	<i>Stylidium utricularioides</i> (Pink Fan Triggerplant)			
971.	7808	<i>Stylidium violaceum</i> (Violet Triggerplant)			
972.	1260	<i>Stypandra glauca</i> (Blind Grass)			
973.	6476	<i>Styphelia tenuiflora</i> (Common Pinheath)			
974.	15529	<i>Synaphea floribunda</i>			
975.	2323	<i>Synaphea gracillima</i>			
976.	16769	<i>Synaphea hians</i>		P3	
977.	16865	<i>Synaphea odocoleops</i>		P1	
978.	2324	<i>Synaphea petiolaris</i> (Synaphea)			
979.	16864	<i>Synaphea petiolaris</i> subsp. <i>petiolaris</i>			
980.	16862	<i>Synaphea petiolaris</i> subsp. <i>simplex</i>		P2	
981.	16863	<i>Synaphea petiolaris</i> subsp. <i>triloba</i>			
982.	2326	<i>Synaphea polymorpha</i> (Albany Synaphea)			
983.	34416	<i>Synaphea</i> sp. <i>Argyle</i> (R. Butcher RB 1323)		P1	Y
984.	18590	<i>Synaphea</i> sp. Fairbridge Farm (D. Papenfus 696)		T	
985.	28354	<i>Synaphea</i> sp. <i>Serpentine</i> (G.R. Brand 103)		P3	
986.	16749	<i>Synaphea stenoloba</i>		T	
987.	15535	<i>Synaphea whichei</i> (Synaphea)			
988.	32439	<i>Syntrichia papillosa</i>			
989.	20115	<i>Taxandria juniperina</i>			
990.	20135	<i>Taxandria linearifolia</i>			
991.	20133	<i>Taxandria parviceps</i>			
992.	33319	<i>Tecticornia indica</i> subsp. <i>bidens</i>			
993.	2820	<i>Tetragonia decumbens</i> (Sea Spinach)	Y		
994.	1034	<i>Tetralix capillaris</i> (Hair Sedge)			
995.	1036	<i>Tetralix octandra</i>			
996.	35579	<i>Tetralix</i> sp. Jarrah Forest (R. Davis 7391)			
997.	4535	<i>Tetralix hirsuta</i> (Black Eyed Susan)			
998.	4538	<i>Tetralix parvifolia</i>		P3	
999.	4544	<i>Tetralix setigera</i>			
1000.	27327	<i>Thamnochloa dichotoma</i>			
1001.	1705	<i>Thelymitra crinita</i> (Blue Lady Orchid)			
1002.	1707	<i>Thelymitra flexuosa</i> (Twisted Sun Orchid)			
1003.	1708	<i>Thelymitra fuscolutea</i> (Leopard Orchid)			
1004.	11053	<i>Thelymitra macrophylla</i>			
1005.	1710	<i>Thelymitra mucida</i> (Plum Orchid)			
1006.	20730	<i>Thelymitra paludosa</i>			
1007.	1717	<i>Thelymitra variegata</i> (Queen of Sheba)		P3	
1008.	20731	<i>Thelymitra vulgaris</i>			
1009.	5084	<i>Thomasia grandiflora</i> (Large Flowered Thomasia)			
1010.	5086	<i>Thomasia macrocalyx</i>			
1011.	5092	<i>Thomasia pauciflora</i> (Few Flowered Thomasia)			
1012.	2644	<i>Threlkeldia diffusa</i> (Coast Bonefruit)			
1013.	32486	<i>Thuidium sparsum</i> var. <i>hastatum</i>			
1014.	1319	<i>Thysanotus arenarius</i>			
1015.	1334	<i>Thysanotus glaucus</i>		P4	
1016.	1339	<i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
1017.	1343	<i>Thysanotus patersonii</i>			
1018.	1344	<i>Thysanotus pauciflorus</i> (Few Flowered Fringe Lily)			
1019.	1351	<i>Thysanotus sparteus</i>			
1020.	1354	<i>Thysanotus tenellus</i>			
1021.	1357	<i>Thysanotus thyrsoides</i>			
1022.	8248	<i>Tolpis barbata</i> (Yellow Hawkweed)	Y		
1023.	1368	<i>Trachyantha divaricata</i>	Y		
1024.	19041	<i>Trachymene coerulescens</i> subsp. <i>coerulescens</i>			
1025.	6279	<i>Trachymene ornata</i> (Spongefruit)			
1026.	6280	<i>Trachymene pilosa</i> (Native Parsnip)			
1027.	1481	<i>Tribonanthes australis</i>			
1028.	1482	<i>Tribonanthes brachypetala</i>			
1029.	1483	<i>Tribonanthes longipetala</i>			
1030.	1485	<i>Tribonanthes violacea</i>			
1031.	17406	<i>Trichocline</i> sp. <i>Treeton</i> (B.J. Keighery & N. Gibson 564)		P2	
1032.	8251	<i>Trichocline spathulata</i> (Native Gerbera)			
1033.	1361	<i>Tricoryne elatior</i> (Yellow Autumn Lily)			

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1034.	1363 <i>Tricoryne tenella</i>			
1035.	1038 <i>Tricostularia neesii</i>			
1036.	12048 <i>Tricostularia neesii</i> var. <i>neesii</i>			
1037.	4292 <i>Trifolium campestre</i> (Hop Clover)	Y		
1038.	17763 <i>Trifolium campestre</i> var. <i>campestre</i> (Hop Clover)	Y		
1039.	4293 <i>Trifolium cernuum</i> (Drooping Flower Clover)	Y		
1040.	4297 <i>Trifolium glomeratum</i> (Cluster Clover)	Y		
1041.	4298 <i>Trifolium hirtum</i> (Rose Clover)	Y		
1042.	4302 <i>Trifolium ligusticum</i> (Ligurian Clover)	Y		
1043.	4304 <i>Trifolium ornithopodioides</i> (Birdsfoot Fenugreek)	Y		
1044.	14738 <i>Trifolium resupinatum</i> var. <i>resupinatum</i>	Y		
1045.	4313 <i>Trifolium subterraneum</i> (Subterranean Clover)	Y		
1046.	15820 <i>Triglochin linearis</i>			
1047.	147 <i>Triglochin mucronata</i>			
1048.	18587 <i>Triglochin nana</i>			
1049.	151 <i>Triglochin striata</i>			
1050.	152 <i>Triglochin trichophora</i>			
1051.	4737 <i>Tripterococcus brunonis</i> (Winged Stackhouseia)			
1052.	33019 <i>Trithuria australis</i>		P4	
1053.	1139 <i>Trithuria bibracteata</i>			
1054.	1141 <i>Trithuria submersa</i>			
1055.	1561 <i>Tritonia crocata</i>	Y		
1056.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
1057.	7157 <i>Utricularia violacea</i> (Violet Bladderwort)			
1058.	7665 <i>Velleia trinervis</i>			
1059.	8257 <i>Vellereophyton dealbatum</i> (White Cudweed)	Y		
1060.	19511 <i>Verbena officinalis</i>	Y		
1061.	7108 <i>Veronica arvensis</i> (Wall Speedwell)	Y		
1062.	12388 <i>Verticordia acerosa</i> var. <i>preissii</i>			
1063.	12392 <i>Verticordia attenuata</i>		P3	
1064.	12411 <i>Verticordia densiflora</i> var. <i>cespitosa</i>			
1065.	15432 <i>Verticordia densiflora</i> var. <i>densiflora</i>			
1066.	12412 <i>Verticordia densiflora</i> var. <i>pedunculata</i>		T	
1067.	15618 <i>Verticordia plumosa</i> var. <i>plumosa</i>			
1068.	12453 <i>Verticordia plumosa</i> var. <i>vassensis</i>		T	
1069.	4322 <i>Vicia sativa</i> (Common Vetch)	Y		
1070.	11474 <i>Vicia sativa</i> subsp. <i>nigra</i>	Y		
1071.	6575 <i>Vinca major</i> (Blue Periwinkle)	Y		
1072.	11137 <i>Vulpia fasciculata</i>	Y		
1073.	724 <i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		
1074.	7384 <i>Wahlenbergia capensis</i> (Cape Bluebell)	Y		
1075.	7389 <i>Wahlenbergia preissii</i>			
1076.	8282 <i>Waitzia suaveolens</i> (Fragrant Waitzia)			
1077.	13333 <i>Waitzia suaveolens</i> var. <i>suaveolens</i>			
1078.	12072 <i>Wurmbea dioica</i> subsp. <i>alba</i>			
1079.	1401 <i>Wurmbea pygmaea</i>			
1080.	1249 <i>Xanthorrhoea acanthostachya</i>			
1081.	14544 <i>Xanthorrhoea brunonis</i> subsp. <i>brunonis</i>			
1082.	14545 <i>Xanthorrhoea brunonis</i> subsp. <i>semibarbata</i>			
1083.	1253 <i>Xanthorrhoea gracilis</i> (Graceful Grass Tree)			
1084.	1256 <i>Xanthorrhoea preissii</i> (Grass tree)			
1085.	6284 <i>Xanthosia candida</i>			
1086.	6285 <i>Xanthosia ciliata</i>			
1087.	6289 <i>Xanthosia huegelii</i>			
1088.	2331 <i>Xylomelum occidentale</i> (Woody Pear)			
1089.	1150 <i>Xyris lanata</i>			
1090.	1049 <i>Zantedeschia aethiopica</i> (Arum Lily)	Y		
1091.	4390 <i>Zygophyllum fruticosum</i> (Shrubby Twinleaf)			

Conservation Codes

T - Rare or likely to become extinct
 X - Presumed extinct
 IA - Protected under international agreement
 S - Other specially protected fauna
 1 - Priority 1
 2 - Priority 2
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 5 - Priority 5

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.

Appendix

6

APPENDIX 6

Fauna species in the Shire of Capel (Source: NatureMap, January 2011)

Note: not a comprehensive list and may not be the most up to date information available.

NatureMap Species Report

Created By Guest user on 19/01/2011

Current Names Only Yes
Species Group All Animals
Method 'Predefined Area Intersect'
Area Type Shire Boundary
Intersect CAPEL

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1.	24280	<i>Acanthiza apicalis</i> (Broad-tailed Thornbill (Inland Thornbill))			
2.	24261	<i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
3.	24262	<i>Acanthiza inornata</i> (Western Thornbill)			
4.	24580	<i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
5.	25535	<i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
6.	25536	<i>Accipiter fasciatus</i> (Brown Goshawk)			
7.	25011	<i>Acritoscincus trilineatus</i>			
8.	25755	<i>Acrocephalus australis</i> (Australian Reed Warbler)			
9.	25644	<i>Aegotheles cristatus</i> (Australian Owllet-nightjar)			
10.	24310	<i>Anas castanea</i> (Chestnut Teal)			
11.	24312	<i>Anas gracilis</i> (Grey Teal)			
12.	24313	<i>Anas platyrhynchos</i> (Mallard)			
13.	24315	<i>Anas rhynchotis</i> (Australasian Shoveler)			
14.	24316	<i>Anas superciliosa</i> (Pacific Black Duck)			
15.	24561	<i>Anthochaera carunculata</i> (Red Wattlebird)			
16.	24562	<i>Anthochaera lunulata</i> (Western Little Wattlebird)			
17.	24285	<i>Aquila audax</i> (Wedge-tailed Eagle)			
18.	25558	<i>Ardea ibis</i> (Cattle Egret)			
19.	24341	<i>Ardea pacifica</i> (White-necked Heron)			
20.	24610	<i>Ardeotis australis</i> (Australian Bustard)		P4	
21.	25566	<i>Artamus cinereus</i> (Black-faced Woodswallow)			
22.	24353	<i>Artamus cyanopterus</i> (Dusky Woodswallow)			
23.	24318	<i>Aythya australis</i> (Hardhead)			
24.	24162	<i>Bettongia penicillata</i> subsp. <i>ogilbyi</i> (Brush-tailed Bettong, Woylie)		T	
25.	24319	<i>Biziura lobata</i> (Musk Duck)			
26.	24251	<i>Bos taurus</i> (European Cattle)	Y		
27.	24345	<i>Botaurus poeciloptilus</i> (Australasian Bittern)		T	
28.	24359	<i>Burhinus grallarius</i> (Bush Stone-curlew)		P4	
29.	25598	<i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
30.	24779	<i>Calidris acuminata</i> (Sharp-tailed Sandpiper)			
31.	25738	<i>Calidris canutus</i> (Red Knot)			
32.	24784	<i>Calidris ferruginea</i> (Curlew Sandpiper)			
33.	24788	<i>Calidris ruficollis</i> (Red-necked Stint)			
34.	24790	<i>Calidris tenuirostris</i> (Great Knot)			
35.	25717	<i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
36.	24731	<i>Calyptorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black-Cockatoo)		T	
37.	24733	<i>Calyptorhynchus baudinii</i> (Baudin's Cockatoo)		T	
38.	24734	<i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo)		T	
39.	24072	<i>Caperea marginata</i> (Pygmy Right Whale)			
40.	25335	<i>Caretta caretta</i> (Loggerhead Turtle)		T	
41.	24086	<i>Cercartetus concinnus</i> (Western Pygmy-possum, Mundarda)			
42.	25575	<i>Charadrius leschenaultii</i> (Greater Sand Plover)			
43.	24377	<i>Charadrius ruficapillus</i> (Red-capped Plover)			
44.	24321	<i>Chenonetta jubata</i> (Australian Wood Duck (Wood Duck))			
45.	24980	<i>Christinus marmoratus</i> (Marbled Gecko)			
46.	25601	<i>Chrysococcyx lucidus</i> (Shining Bronze Cuckoo)			
47.	24432	<i>Chrysococcyx lucidus</i> subsp. <i>plagosus</i>			
48.	24833	<i>Cincloramphus cruralis</i> (Brown Songlark)			
49.	24288	<i>Circus approximans</i> (Swamp Harrier)			
50.	24289	<i>Circus assimilis</i> (Spotted Harrier)			
51.	24774	<i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
52.	24396	<i>Climacteris rufa</i> (Rufous Treecreeper)			
53.	25675	<i>Colluricincla harmonica</i> (Grey Shrike-thrush)			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
54.	24399	<i>Columba livia</i> (Domestic Pigeon)	Y		
55.	25568	<i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
56.	25592	<i>Corvus coronoides</i> (Australian Raven)			
57.	24417	<i>Corvus coronoides</i> subsp. <i>perplexus</i>			
58.	24671	<i>Coturnix pectoralis</i> (Stubble Quail)			
59.	24420	<i>Cracticus nigrogularis</i> (Pied Butcherbird)			
60.	25595	<i>Cracticus tibicen</i> (Australian Magpie)			
61.	25596	<i>Cracticus torquatus</i> (Grey Butcherbird)			
62.	25400	<i>Crinia insignifera</i> (Squelching Froglet)			
63.	25401	<i>Crinia pseudinsignifera</i> (Bleating Froglet)			
64.	30893	<i>Cryptoblepharus buehneri</i>			
65.	25020	<i>Cryptoblepharus plagiocephalus</i>			
66.	25047	<i>Ctenopus impar</i>			
67.	24435	<i>Cuculus pallidus</i> (Pallid Cuckoo)			
68.	24322	<i>Cygnus atratus</i> (Black Swan)			
69.	30901	<i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
70.	25673	<i>Daphoenositta chrysoptera</i> (Varied Sittella)			
71.	24092	<i>Dasyurus geoffroyi</i> (Western Quoll, Chuditch)		T	
72.	25607	<i>Dicaeum hirundinaceum</i> (Mistletoebird)			
73.	24470	<i>Dromaius novaehollandiae</i> (Emu)			
74.	25096	<i>Egernia kingii</i> (King's Skink)			
75.	25098	<i>Egernia luctuosa</i> (Western Swamp Skink)			
76.	25250	<i>Elapognathus coronatus</i> (Crowned Snake)			
77.	24652	<i>Eopsaltria georgiana</i> (White-breasted Robin)			
78.	24567	<i>Epthianura albilfrons</i> (White-fronted Chat)			
79.	24043	<i>Eubalaena australis</i> (Southern Right Whale)		T	
80.	25746	<i>Eudyptula minor</i> (Little Penguin)			
81.	25621	<i>Falco berigora</i> (Brown Falcon)			
82.	25622	<i>Falco cenchroides</i> (Australian Kestrel)			
83.	25623	<i>Falco longipennis</i> (Australian Hobby)			
84.	25624	<i>Falco peregrinus</i> (Peregrine Falcon)		S	
85.	24616	<i>Falcunculus frontatus</i> subsp. <i>leucogaster</i>		P4	
86.	24189	<i>Falsistrellus mackenziei</i> (Western False Pipistrelle)		P4	
87.	25727	<i>Fulica atra</i> (Eurasian Coot)			
88.	25729	<i>Gallinula tenebrosa</i> (Dusky Moorhen)			
89.	25730	<i>Gallirallus philippensis</i> (Buff-banded Rail)			
90.	25404	<i>Geocrinia leai</i> (Ticking Frog)			
91.	34030	<i>Geotria australis</i> (Pouched Lamprey)		P1	
92.	25530	<i>Gerygone fusca</i> (Western Gerygone)			
93.	24271	<i>Gerygone fusca</i> subsp. <i>fusca</i>			
94.	24735	<i>Glossopsitta porphyrocephala</i> (Purple-crowned Lorikeet)			
95.	24443	<i>Grallina cyanoleuca</i> (Magpie-lark)			
96.	24056	<i>Grampus griseus</i> (Risso's Dolphin)			
97.	25627	<i>Haematopus fuliginosus</i> (Sooty Oystercatcher)			
98.	24487	<i>Haematopus longirostris</i> (Pied Oystercatcher)			
99.	24293	<i>Haliaeetus leucogaster</i> (White-bellied Sea-Eagle)			
100.	24295	<i>Haliastur spheurnus</i> (Whistling Kite)			
101.	25410	<i>Heleioporus eyrei</i> (Moaning Frog)			
102.	30919	<i>Hemiergis gracilipes</i>			
103.	25475	<i>Hemiergis peronii</i>			
104.	25118	<i>Hemiergis peronii</i> subsp. <i>tridactyla</i>			
105.	25119	<i>Hemiergis quadrilineata</i>			
106.	25734	<i>Himantopus himantopus</i> (Black-winged Stilt)			
107.	24491	<i>Hirundo neoxena</i> (Welcome Swallow)			
108.	24215	<i>Hydromys chrysogaster</i> (Water-rat)		P4	
109.	24153	<i>Isodon obesulus</i> subsp. <i>fusciventer</i> (Southern Brown Bandicoot, Quenda)		P5	
110.	24347	<i>Ixobrychus flavicollis</i> subsp. <i>australis</i>		P3	
111.	24367	<i>Lalage tricolor</i> (White-winged Triller)			
112.	25838	<i>Larus pacificus</i> (Pacific Gull)			
113.	25131	<i>Lerista distinguenda</i>			
114.	25133	<i>Lerista elegans</i>			
115.	25005	<i>Lialis burtonis</i>			
116.	24581	<i>Lichenostomus virescens</i> (Singing Honeyeater)			
117.	25661	<i>Lichmera indistincta</i> (Brown Honeyeater)			
118.	25415	<i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
119.	30932	<i>Limosa lapponica</i> (Bar-tailed Godwit)			
120.	25388	<i>Litoria moorei</i> (Motorbike Frog)			
121.	24690	<i>Macronectes giganteus</i> (Southern Giant Petrel)		T	
122.	24691	<i>Macronectes halli</i> (Northern Giant Petrel)			
123.	24132	<i>Macropus fuliginosus</i> (Western Grey Kangaroo)			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
124.	24133	<i>Macropus irma</i> (Western Brush Wallaby)		P4	
125.	24326	<i>Malacorhynchus membranaceus</i> (Pink-eared Duck)			
126.	25650	<i>Malurus elegans</i> (Red-winged Fairy-wren)			
127.	25654	<i>Malurus splendens</i> (Splendid Fairy-wren)			
128.	25758	<i>Megalurus gramineus</i> (Little Grassbird)			
129.	24051	<i>Megaptera novaeangliae</i> (Humpback Whale)		T	
130.	25663	<i>Melithreptus brevirostris</i> (Brown-headed Honeyeater)			
131.	25184	<i>Menetia greyii</i>			
132.	24598	<i>Merops ornatus</i> (Rainbow Bee-eater)			
133.	24076	<i>Mesoplodon bowdoini</i> (Andrew's Beaked Whale)			
134.	33921	<i>Moggridgea tingle</i> (Tingle Trapdoor Spider)		T	
135.	25240	<i>Morelia spilota</i> subsp. <i>imbricata</i> (Carpet Python)		S	
136.	25191	<i>Morethia lineocollata</i>			
137.	24223	<i>Mus musculus</i> (House Mouse)	Y		
138.	25610	<i>Myiagra inquieta</i> (Restless Flycatcher)			
139.	24738	<i>Neophema elegans</i> (Elegant Parrot)			
140.	25748	<i>Ninox novaeseelandiae</i> (Boobook Owl)			
141.	25252	<i>Notechis scutatus</i> (Tiger Snake)			
142.	24798	<i>Numenius madagascariensis</i> (Eastern Curlew)		P4	
143.	25742	<i>Numenius phaeopus</i> (Whimbrel)			
144.	25664	<i>Nycticorax caledonicus</i> (Rufous Night Heron)			
145.	24350	<i>Nycticorax caledonicus</i> subsp. <i>hilli</i>			
146.	24407	<i>Ocyphaps lophotes</i> (Crested Pigeon)			
147.	24328	<i>Oxyura australis</i> (Blue-billed Duck)			
148.	25679	<i>Pachycephala pectoralis</i> (Golden Whistler)			
149.	24623	<i>Pachycephala pectoralis</i> subsp. <i>fuliginosa</i>			
150.	25680	<i>Pachycephala rufiventris</i> (Rufous Whistler)			
151.	24692	<i>Pachyptila belcheri</i> (Slender-billed Prion)			
152.	24693	<i>Pachyptila desolata</i> (Antarctic Prion)			
153.	24697	<i>Pachyptila vittata</i> (Broad-billed Prion)			
154.	25255	<i>Parasuta nigriceps</i>			
155.	25681	<i>Pardalotus punctatus</i> (Spotted Pardalote)			
156.	25682	<i>Pardalotus striatus</i> (Striated Pardalote)			
157.	25687	<i>Passer domesticus</i> (House Sparrow)	Y		
158.	25370	<i>Pelamis platura</i> (Yellow-bellied Sea-snake)			
159.	24648	<i>Pelecanus conspicillatus</i> (Australian Pelican)			
160.	24659	<i>Petroica goodenovii</i> (Red-capped Robin)			
161.	25695	<i>Petroica multicolor</i> (Scarlet Robin)			
162.	24663	<i>Phaethon rubricauda</i> (Red-tailed Tropicbird)			
163.	25697	<i>Phalacrocorax carbo</i> (Great Cormorant)			
164.	24667	<i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
165.	25699	<i>Phalacrocorax varius</i> (Pied Cormorant)			
166.	24409	<i>Phaps chalcoptera</i> (Common Bronzewing)			
167.	25587	<i>Phaps elegans</i> (Brush Bronzewing)			
168.	34045	<i>Phascogale tapoatafa</i> subsp. <i>ssp.</i> (WAM M434) (Brush-tailed Phascogale, Wambenger)		T	
169.	24099	<i>Phascogale tapoatafa</i> subsp. <i>tapoatafa</i> (Southern Brush-tailed Phascogale, Wambenger)			
170.	24596	<i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
171.	24841	<i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
172.	25720	<i>Platycercus icterotis</i> (Western Rosella)			
173.	24747	<i>Platycercus spurius</i> (Red-capped Parrot)			
174.	25721	<i>Platycercus zonarius</i> (Australian Ringneck (Ring-necked Parrot))			
175.	24843	<i>Plegadis falcinellus</i> (Glossy Ibis)			
176.	24383	<i>Pluvialis squatarola</i> (Grey Plover)			
177.	25703	<i>Podargus strigoides</i> (Tawny Frogmouth)			
178.	24681	<i>Poliiocephalus poliocephalus</i> (Hoary-headed Grebe)			
179.	25722	<i>Polytelis anthopeplus</i> (Regent Parrot)			
180.	25731	<i>Porphyrio porphyrio</i> (Purple Swamphen)			
181.	24767	<i>Porphyrio porphyrio</i> subsp. <i>bellus</i>			
182.	24769	<i>Porzana fluminea</i> (Australian Spotted Crane)			
183.	25732	<i>Porzana pusilla</i> (Baillon's Crane)			
184.	24771	<i>Porzana tabuensis</i> (Spotless Crane)			
185.	24166	<i>Pseudocheirus occidentalis</i> (Western Ringtail Possum)		T	
186.	25259	<i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
187.	24703	<i>Pterodroma lessonii</i> (White-headed Petrel)			
188.	25271	<i>Ramphotyphlops australis</i>			
189.	25285	<i>Ramphotyphlops pinguis</i>			
190.	24245	<i>Rattus rattus</i> (Black Rat)	Y		
191.	24776	<i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			

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192.	25613	<i>Rhipidura fuliginosa</i> (Grey Fantail)			
193.	25614	<i>Rhipidura leucophrys</i> (Willie Wagtail)			
194.	25534	<i>Sericornis frontalis</i> (White-browed Scrubwren)			
195.	24145	<i>Setonix brachyurus</i> (Quokka)		T	
196.	30948	<i>Smicromis brevirostris</i> (Weebill)			
197.	24329	<i>Stictonetta naevosa</i> (Freckled Duck)			
198.	25655	<i>Stipiturus malachurus</i> (Southern Emu-wren)			
199.	25597	<i>Strepera versicolor</i> (Grey Currawong)			
200.	25590	<i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
201.	25705	<i>Tachybaptus novaehollandiae</i> (Australasian Grebe (Black-throated Grebe))			
202.	24331	<i>Tadorna tadornoides</i> (Australian Shelduck (Mountain Duck))			
203.	24844	<i>Threskiornis molucca</i> (Australian White Ibis)			
204.	24845	<i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
205.	25519	<i>Tiliqua rugosa</i>			
206.	25207	<i>Tiliqua rugosa subsp. rugosa</i>			
207.	25549	<i>Todiramphus sanctus</i> (Sacred Kingfisher)			
208.	25521	<i>Trichosurus vulpecula</i>			
209.	24158	<i>Trichosurus vulpecula subsp. vulpecula</i> (Common Brushtail Possum)			
210.	24803	<i>Tringa brevipes</i> (Grey-tailed Tattler)			
211.	24808	<i>Tringa nebularia</i> (Common Greenshank)			
212.	24809	<i>Tringa stagnatilis</i> (Marsh Sandpiper)			
213.	24855	<i>Tyto novaehollandiae subsp. novaehollandiae</i>		P3	
214.	24386	<i>Vanellus tricolor</i> (Banded Lapwing)			
215.	25218	<i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
216.	24206	<i>Vespertilio regulus</i> (Southern Forest Bat)			
217.	25765	<i>Zosterops lateralis</i> (Grey-breasted White-eye (Silvereye))			

Conservation Codes

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5 - Priority 5

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Appendix

7



Roadside Conservation Committee

GUIDELINES FOR MANAGING THE HARVESTING OF NATIVE FLOWERS, SEED AND TIMBER FROM ROADSIDES

Introduction

The diversity of values associated with roadside vegetation is well documented and acknowledged. In landscapes that have been extensively cleared, roadside vegetation provides essential wildlife corridors and habitat for local flora and fauna, including a number of threatened species. Hence it is highly desirable that this asset is managed in such a way as to ensure its conservation and sustainability.

The control and management of roadside vegetation is the responsibility of the road manager. Local government authorities, as road managers, are often approached for 'permission' to take various flora products from the roadside. These requests are mainly for wildflowers, native seed and firewood. Other products which may be sought include material for making didgeridoos, other types of craft wood, and stakes or poles for various purposes.

The implementation of these simple guidelines by road managers for the removal of flora and timber material from the roadsides will ensure that the vegetated roadside reserve is maintained for its biodiversity values, and the benefit of the community and road users.

In some instances the Roadside Conservation Committee (RCC) is supportive of the sustainable harvesting of flora, such as salvage (removal of dead material that is not significant wildlife habitat or is material to be destroyed by road works), or the selective collection of seed for revegetation. However, each case should be viewed on its merits and any decision to facilitate harvesting from roadsides should be referred to the Department of Environment and Conservation (DEC) and/or the RCC for advice. Licences allowing the taking of roadside flora may be issued by DEC when supported by the road managing authority.

Legislation

All Western Australian native flora is protected under the *Wildlife Conservation Act 1950*. Native flora includes all parts of a native plant, including its flowers, seed, and timber. Protection of native flora under the Act means that a person can only take (cut or remove) native flora from Crown land under a licence.

Road and rail reserves are Crown land, and hence a licence is required to cut or remove any native flora from a roadside or rail line. There is, however, a legal provision by which the road manager or their agent (contractor) does not require a licence whilst undertaking legitimate road management activities, such as those approved under the *Environmental Protection (Clearing of Native vegetation) Regulations 2004*. This provision does not extend to other persons who wish to take protected flora from roadsides.

There are two types of licences that apply to the taking of protected flora from Crown land: Commercial Purposes Licences, where the flora is being taken for any commercial purpose; and Scientific or Other Prescribed Purposes Licences, where the protected flora is being taken for specific non-commercial purposes.

In issuing a licence, DEC is required to be assured that the activity will not compromise the conservation of the flora. In determining this, DEC will seek advice from the road manager to determine the potential impact of the activity, and how the activity relates to the management objectives being applied to that land.

A licence application may be refused if the activity is either a conservation concern, or does not fit in with the management objectives of the road manager. Once issued with a licence, a licensee must comply with the conditions of the licence that are designed to ensure the activity does not adversely impact on the conservation of the flora or the natural environment in which it occurs.

Commercial Wildflower Harvesting

Western Australia is referred to as the '*Wildflower State*', and its wildflowers attract a significant number of tourists each year. Roadside vegetation provides the most accessible, and hence the most commonly viewed, array of wildflowers, and as such are an important feature of regional tourism, potentially providing a significant financial boost to local economies. Wildflower harvesting in many instances detracts from the biodiversity and tourism values of the roadside and should therefore be discouraged.

The RCC considers that the flora on roadsides is reserved and maintained for public benefit. It is therefore seen as a contradiction of purpose to allow wildflowers on roadsides to be harvested, particularly for private gain, and this activity should not be permitted. However, there are situations where some harvesting may be considered, such as in very wide road reserves where the activity can be screened from road users and has a smaller impact on biodiversity. It is often the case that flora is harvested from roadsides because of the convenience of access, and harvesters should be directed to find alternative locations. Road managers have been discouraged from supporting or allowing such harvesting to occur, but if harvesting is to be approved, then the points provided at the end of these guidelines should be considered.

Seed Collection

Throughout much of the south west, revegetation of the native flora is being undertaken to redress the problems that historic clearing has created. Increasingly, this revegetation is aimed at using local native flora so as to recreate the native vegetation to support biodiversity objectives. The paradox is that in many areas the native vegetation has been cleared to such an extent that adequate sources of native seed cannot be found for undertaking this work. Roadside vegetation may be one of few sources of such seed.

Seed production is an important component of remnant vegetation. Some species, called re-seeder species, regrow only from seed when plants are either killed by an event, such as fire, storm damage, or die as part of their natural cycle. The maintenance of adequate seed of these species is necessary as a precaution to ensure the continuity of the flora biodiversity.

Native seed is also an important food source for native fauna living in roadside vegetation, from ants to birds and mammals. The maintenance of this fauna is important for the continuing survival of the vegetation, especially where the fauna is required to pollinate the flora.

When seed is needed for *bona fide* revegetation projects within the local community, and no other source of local seed is available, then the managing authority may consider giving permission for collection of seed from roadsides. Such collection must be under the appropriate licence issued by DEC and the harvesting should be done in a way that does not endanger the long-term survival of the roadside vegetation.

Where seed collection is to be authorised on roadsides, the road manager should consider the points listed at the end of these guidelines. Specific consideration should be given to the methods that are approved for harvesting the seed, the quantity of seed that may be taken, and the species from which the seed is to be sourced.

Timber Harvesting from Roadsides.

Timber is harvested for a range of reasons, including saw logs, firewood and craft wood. Due to the ease of access, timber harvesters may wish to source timber from roadside vegetation for these purposes.

Roadside managers are encouraged to retain timber on roadsides as an important component of the natural habitat, which fulfils ecological, aesthetic and land management functions. Fallen logs and branches within the roadside create important habitat for many species of insects, reptiles, mammals and birds, thus enhancing the roadside biodiversity. Insects and reptiles that live in fallen timber are also important elements of the food chain, and are very important to the functioning of natural systems, and the survival of many other native animals.

The RCC recommends that harvesting of timber from roadsides should not be permitted except in defined road safety, fence line or service clearance zones, or where a tree has fallen, or appears likely to fall into clearance zones.

Where timber removal is to be allowed, consideration should be given to the points raised at the end of these guidelines, especially in relation to safety issues related to timber cutting. Permission to remove timber should be specific to certain sections of roadsides where the removal is necessary for other planned road management purposes.

Guidelines for Harvesting on Roadsides

- In all cases the permission of the managing authority, i.e. Main Roads WA, Local Government or CALM, must be sought before native flora is removed from a roadside.
- Flora removal should be from only designated roads, which have wider vegetated road verges i.e. vegetation width > 3metres.
- The number of operators authorised to remove flora from a roadside should be strictly limited to that which can be sustained and managed. The determination of this is at the judgement of the managing authority, but consideration should be taken of the type of flora being harvested and an evaluation of monitoring of the impact of the harvest activity. Advice may be sought from DEC or the RCC.
- Approval for flora harvesting should be for a set period, with a review of the impact and operation before renewal.
- Approval should also stipulate approved methods of harvesting, the species which may be harvested, and the quantity of material to be taken. Advice on harvest conditions may be obtained from DEC.
- Any flora removed should not affect the viability of the residual seed bank. It is recommended that no more than 20% of the flowers or seed on a plant should be taken, unless it is in an area that is scheduled to be cleared as part of road management.
- Methods of harvesting flora should not jeopardise the survival of the plant/tree, unless it is in an area that is scheduled to be cleared as part of road management.
- The removal of whole plants should be restricted to areas that are scheduled to be cleared as part of road management. Note: some species of flora such as zamia palms and grass trees cannot be removed for commercial purposes without a special endorsement on the Commercial Purposes Licence issued by DEC.
- No flora of special conservation concern (Declared Rare Flora or Priority Flora) should be removed without special authorisation through DEC.
- No commercial harvesting of any plant product should be allowed for any reason between the markers that delineate an Environmentally Sensitive Areas defined in the *Environmental Protection (Clearing of Native vegetation) Regulations 2004*.
- Flora harvesting should be prohibited from designated Flora Roads.
- Care should be taken that access to Dieback infected areas is limited to the drier months of the year, and vehicular access disallowed.
- Safety should always be of prime concern and every effort should be made to ensure that personal safety is a key consideration in any harvesting operation.
- Flora harvesters should not operate from the roadside in areas where the vegetation is close to the road, where vehicles cannot be safely parked off the road, or where there is poor driver visibility.

Appendix

8



Roadside Conservation Committee

Guidelines for the Nomination and Management of Flora Roads

Introduction

The Flora Roads program began as an initiative of the Roadside Conservation Committee (RCC), as a means of encouraging road managers to protect and conserve roadside vegetation of high conservation value. Flora Roads highlight areas of high conservation flora as a tourist asset to local communities. These are easily identified to passing travellers as areas worthy of an inspection to view the local flora.



The Roadside Conservation Committee has defined Flora Roads as “those roads which have conservation value owing to the vegetation growing within the reserve”.

Principle Conservation Values of Flora Roads:

- The roadside must contain a significant population of native vegetation. Introduced trees and grasses are not important for conservation.
- The native vegetation must be in as near to its natural condition as possible. In undisturbed vegetation, several layers of plants occur – trees, shrubs and herbs are present in woodlands, for example. If one or more of the expected layers are missing, the conservation value is reduced.
- The roadside may be the only remaining example of original vegetation within a cleared area. It thus:
 - assists in vegetation mapping and distribution studies;
 - provides a benchmark for study of soil change during agricultural development;
 - provides a source of local seed for revegetation projects;
 - acts as a wildlife habitat for the protection of fauna;
 - harbours rare or endangered plants in the roadside;
 - may provide nest sites and refuges for native animals; and
 - may act as a biological corridor.

Identification and Nomination of Flora Roads

The RCC has been coordinating a volunteer roadside survey program since 1989, which provides a list of high conservation value roads within many Shires in the agricultural areas of this state. These roadsides can be investigated further to see if they warrant declaration as a Flora Road. Nevertheless, roadsides that have not been surveyed may still be nominated.

Any person may suggest to the managing authority or to the RCC that a road, or a section of road fits the criteria of a Flora Road. However, only the managing authority in whom care, control and management of the road is vested can officially declare it a Flora Road.

A road may be nominated as a Flora Road by submitting a written request to the RCC. The RCC requires the following information:

- endorsement from the managing authority;
- name of the road, Local Government Authority, and the road manager (MRWA, Local Government or CALM);
- distance of the proposed Flora Road; and
- width of the road reserve.

The following information would also be useful:

- photograph(s) of the road;
- a list of the dominant plant species; and
- threats such as weeds, disturbances, etc.

This information is stored in the RCC Flora Roads Register, a database that is maintained by the RCC Technical Officer.

Establishment of a Flora Road

Given that only the managing authority can officially declare a road, or section of road as a Flora Road, it is important to have the support of the road manager.

The RCC will provide two Flora Road signs to the managing authority. The signs are in the tourist sign colours of white letters and symbols on a leaf brown background. It is the responsibility of the managing authority to erect the signs, and to provide signposts, auxiliary signs and carry out maintenance. One sign may be placed at each approach to the area.

Management Implications

A standard sign was developed by Main Roads WA in the late 1980's; a policy for the erection of Flora Road signage was developed shortly afterwards.

Part 16 of the RCC *Roadside Manual* details the establishment and management of Flora Roads. The RCC's *Guidelines for Managing Special Environment Areas in Transport Corridors* and the *Roadside Handbook* also provides information on Flora Road establishment.

The aim of all management should be to minimise any disturbance to the roadside flora, consistent with the provision of a safe and efficient roadway.

The managing authority will be expected to take into consideration the high conservation values present, and take special care when working within the Flora Road road reserve and the surrounding area. More specifically though;

- council may choose to adopt a policy on Roadside Conservation;
- environmental assessments (pre-construction checklists) should be completed prior to any upgrade work, to assist with planning for flora preservation;
- fire management should be undertaken in such a way so as to take into account the ecological needs of the flora; and
- where rehabilitation is contemplated, local native species should always be used.

Tourism Implications

Declared Flora Roads will, by their very nature, be attractive to tourists, and would often be suitable as part of a tourist drive network. Consideration should be given to:

- promoting the road by means of a small brochure or booklet;
- eventually showing all Flora Roads on a map of the region or State;
- using specially designed signs to delineate the Flora Road section; and
- constructing roadside flora rest areas where people can get out and enjoy the flora. Walk trails could be made from these, and information brochures produced. The RCC has established links with the W.A. Tourism Commission for inclusion on wildflower tourist publications.

Flora Road Register

To ensure that knowledge of Flora Roads sites does not get lost, due perhaps to staff changes, the RCC has established a Flora Roads Register. Information pertaining to each Flora Road (i.e. road name, location, length, etc) will be stored in the Flora Roads database, and updated as necessary.

In order to plan roadworks so that these important areas of roadside vegetation are not disturbed, road managers should also know of these areas. Therefore, it is suggested that the Managing Authority establishes a *Register of Roads Important for Conservation* also. This register should be consulted prior to any works being initiate