



Natural Area  
CONSULTING MANAGEMENT SERVICES

## City of Bunbury

## Forrest Park Ecological Survey

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## Executive Summary

Natural Area Consulting Management Services (Natural Area) was commissioned by the City of Bunbury (the City) to undertake ecological surveys within Forrest Park, Bunbury. Ecological surveys included a basic flora and fauna survey, as well as targeted searches for Western Ringtail Possum and black cockatoos. Findings from this survey will inform relevant stakeholders and environmental approvals associated with the proposed upgrading and future development of facilities at Forrest Park.

The surveys undertaken aimed to determine:

- the extent and boundaries of vegetation type and condition
- flora species (native and introduced) present
- the location of declared rare or priority flora and or ecological communities
- the location of individual tree species and the mapping of habitat trees (DBH >500 mm)
- fauna species (native and introduced) present
- evidence of fauna presence through indicators such as tracks, scats, dens, warrens, and calls
- targeted survey for Western Ringtail Possums and Black Cockatoos.

The basic flora and vegetation survey confirmed:

- a total of 23 flora species from seven families
- a total of seven native and 16 introduced flora species
- no threatened or priority species were identified
- no threatened or priority ecological communities were present within the survey area
- two vegetation types, cleared parkland of maintained turf, including sporting oval and associated sporting buildings and Parkland of *Agonis flexuosa* (Peppermint) and *Eucalyptus gomphocephala* (Tuart) over maintained grassed areas
- vegetation condition across the entire site is Completely Degraded with no native middle or understorey present.

The fauna survey confirmed:

- a total of 12 vertebrate fauna species, eight bird species, one mammal, one reptile, and two invertebrates
- the presence of wood boring larvae, Ghost Moth (Hepialidae) were present within four *Agonis flexuosa* trees and adversely affecting their health
- one conservation significant species, the threatened Forest Red-tailed Black Cockatoo (3 individuals) recorded within a Tuart tree
- no evidence of nesting or foraging by black cockatoos was observed during the survey
- a total of 138 potential habitat trees which meet the size requirements of a Diameter at Breast Height (DBH) of >500 mm were recorded. Of these, 39 are preferred habitat tree species for threatened black cockatoos (*Eucalyptus gomphocephala*, *Eucalyptus marginata* etc.)
- of the habitat trees recorded, two exhibited hollows which have the potential to provide nesting habitat for black cockatoos, with eight trees containing hollows which are not a sufficient size for black cockatoos
- the survey area contains approximately 2.45 ha of *Agonis flexuosa* habitat for the Western Ringtail Possum, with the habitat comprising of trees over managed turf areas

- no individuals of the Western Ringtail Possum, scats or dreys were observed during the survey, although one tree shown signs of scratch marks from the presence of possums.

The proposed development is in the planning phase, with the clearing envelope not yet determined. As such, it is assumed that the entire Forrest Park will be cleared. The potential clearing of Forrest Park has been assessed against the ten clearing principles and is suggested to be at variance with two of these principles. Due to the presence of habitat for the Western Ringtail Possum and threatened black cockatoos it is recommended to discuss any proposed actions with the Department of Agriculture, Water and Environment (DAWE) as referral may be required.

Natural Area has the following additional recommendations to aid in reducing any potential environmental impacts to the site:

- Apply local protection methods to important individual trees including the retention of mature habitat trees (DBH >500 mm) where possible, particularly those with hollows which provide nesting for all bird species.
- Native habitat trees (*Eucalyptus gomphocephala* and *Agonis flexuosa*) including both alive and dead trees, with DBH >500mm and hollows of any size, should be prioritised for retention.
- Habitat trees (DBH >500mm) should be retained where possible. If they are proposed to be removed, these should be replaced with native species representative of the area, including *Eucalyptus gomphocephala* and *Agonis flexuosa*.
- If clearing is to occur, prioritise the retention of Western Ringtail Possum habitat (Figure 8), with clearing of non-native trees preferable with the development of areas which contain no native species prioritised to mitigate impact to threaten fauna habitat for both the Western Ringtail Possum and black cockatoos.
- If clearing of trees is to occur it is recommended to be conducted outside of peak breeding season (spring) when avian species may utilise trees as potential nesting sites.

## Contents

|                                                            |    |
|------------------------------------------------------------|----|
| Executive Summary .....                                    | 3  |
| Contents .....                                             | 5  |
| 1.0 Introduction.....                                      | 7  |
| 1.1 Location .....                                         | 7  |
| 1.2 Scope .....                                            | 7  |
| 1.3 Objective.....                                         | 7  |
| 2.0 Site Characteristics .....                             | 9  |
| 2.1 Regional Context .....                                 | 9  |
| 2.2 Climate.....                                           | 9  |
| 2.3 Topography and Soils .....                             | 9  |
| 2.4 Vegetation Complex .....                               | 11 |
| 2.5 Tenure and Current Land Use.....                       | 11 |
| 2.6 Fauna Habitat .....                                    | 11 |
| 3.0 Methodology .....                                      | 12 |
| 3.1 Desktop and Literature Review .....                    | 12 |
| 3.2 On-ground Flora Methodology.....                       | 12 |
| 3.2.1 Vegetation Type.....                                 | 13 |
| 3.2.2 Vegetation Condition.....                            | 13 |
| 3.3 On-ground Fauna Methodology .....                      | 14 |
| 3.4 Limitations .....                                      | 15 |
| 4.0 Results .....                                          | 16 |
| 4.1 Flora Desktop Survey.....                              | 16 |
| 4.2 Fauna Desktop Survey .....                             | 18 |
| 4.3 Flora On-ground Survey.....                            | 20 |
| 4.3.1 Flora Species .....                                  | 20 |
| 4.3.2 Vegetation Types .....                               | 21 |
| 4.3.3 Vegetation Condition.....                            | 21 |
| 4.3.4 Threatened and Priority Ecological Communities ..... | 21 |
| 4.4 Fauna On-ground Survey.....                            | 23 |
| 4.5 Fauna Habitat .....                                    | 25 |
| 4.5.1 Western Ringtail Possum.....                         | 25 |
| 4.5.2 Black Cockatoo .....                                 | 27 |

|             |                                                      |    |
|-------------|------------------------------------------------------|----|
| 5.0         | Recommendations and Conclusion .....                 | 31 |
| 5.1         | Flora and Vegetation .....                           | 31 |
| 5.2         | Significant Flora .....                              | 31 |
| 5.3         | Threatened and Priority Ecological Communities ..... | 31 |
| 5.4         | Fauna .....                                          | 31 |
| 5.5         | Significant Fauna .....                              | 31 |
| 5.5.1       | Black Cockatoo Habitat.....                          | 31 |
| 5.5.2       | Possum Habitat.....                                  | 35 |
| 5.6         | Assessment Against Clearing Principles .....         | 37 |
| 5.7         | Recommendations.....                                 | 37 |
| 6.0         | References .....                                     | 41 |
| Appendix 1: | NatureMap .....                                      | 43 |
| Appendix 2: | PMST.....                                            | 59 |
| Appendix 3: | Conservation Codes.....                              | 78 |
| Appendix 4: | Flora Species List.....                              | 80 |
| Appendix 5: | Habitat Tree Locations.....                          | 81 |

## 1.0 Introduction

Natural Area Consulting Management Services (Natural Area) was commissioned by the City of Bunbury (the City) to undertake an ecological survey at Forrest Park, Bunbury. This included a basic flora, vegetation, and fauna survey, including a targeted survey for threatened Western Ringtail Possum (*Pseudocheirus occidentalis*) and black cockatoos. Survey outcomes will inform the relevant stakeholders and environmental approvals associated with the proposed upgrade and development of facilities at Forrest Park.

### 1.1 Location

Forrest Park is located in the City of Bunbury, within the suburb of Carey Park. It is bounded by Forrest Avenue to the north, Kelly Street to the east and Blair Street to the west (Figure 1). It covers an area of approximately 8.7 ha consisting mostly of cleared parkland and sporting ovals with both remnant and planted trees. The survey area occurs outside of an environmentally sensitive area (Department of Water, Environment and Regulation 2021).

### 1.2 Scope

Natural Area's scope of works include:

- desktop assessment to determine environmental values and likelihood of conservation significant flora, fauna or habitat occurring within the survey area
- a basic flora survey to identify species present, existing vegetation types and conditions, occurrence of conservation significant flora and/or Threatened and Priority Ecological Communities (TECs, PECs)
- a basic fauna survey to identify any potential significant fauna habitat and record any opportunistic observations or evidence of presence of fauna within the survey area
- targeted surveys for the Western Ringtail Possum and Black Cockatoos
- provide all spatial/mapping data collected
- report outcomes of survey.

### 1.3 Objective

The main objective of the ecological surveys at Forrest Park was to collect sufficient data to accurately inform stakeholders and relevant environmental approvals, including but not limited to a Native Vegetation Clearing Permit under the *Environmental Protection Act 1986*.



**Figure 1:**  
Site Location  
Forrest Park, Bunbury

Client: City of Bunbury  
Date: 22/03/2021  
Created by: K. Sadgrove  
Image Source: Nearmap, 2021  
Datum: GDA 94



## 2.0 Site Characteristics

Site characteristics play an important role in determining the flora and fauna assemblages of a specific area. Desktop research from online databases and literature reviews help to acquire contextual information such as climate, topography, and regional context of the survey site. The various site characteristics of Forrest Park are outlined in this section.

### 2.1 Regional Context

According to the Interim Biographical Regionalisation of Australia (IBRA) descriptions, Bunbury is located within the Swan Coastal Plain region. The Swan Coastal Plain comprises two major divisions, the Swan Coastal Plain 1 -Dandaragan Plateau and Swan Coastal Plain 2 -Perth Coastal Plain (Mitchell, Williams and Desmond, 2002), with the survey area situated in the latter. This area is described as a low-lying coastal plain with sands of colluvial and aeolian origin, as well as alluvial river flats and coastal limestone. The region is dominated by Banksia and/or Jarrah Woodland over sandy soils associated with the dune systems, with Paperbark (*Melaleuca*) in swampy/damp areas and Jarrah Woodland to the east where the Swan Coastal Plain rises (Mitchell, Williams & Desmond, 2002).

### 2.2 Climate

The climate experienced in the area is Mediterranean, with dry, hot summers and cool, wet winters. According to the Bureau of Meteorology (2021); Bunbury WA (Site Number 009965), the region has an average:

- rainfall of 718.4 mm annually, with rain falling predominantly between May and August
- maximum temperatures ranging from 17.3 °C in winter to 30 °C in summer, with a maximum recorded temperature of 40.8 °C
- minimum temperatures ranging from 7.1 °C in winter to 15.9 °C in summer, with a minimum recorded temperature of -3 °C
- predominant wind directions include morning easterlies and westerly sea breezes in the afternoons, with an average wind speed of 17.9 km/h and gusts of more than 100 km/h.

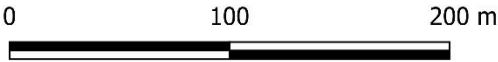
### 2.3 Topography and Soils

The site is relatively flat at 2 m Australian Height Datum (AHD), with a gentle rise to 4 m AHD just outside the southern and eastern boundaries of the survey area. One soil type is present (Spearwood S4a Phase); this is described as a flat to gently undulating sand plain with deep, pale and sometimes bleached sands with yellow-brown subsoils (Department of Primary Industries and Regional Development, 2021b) (Figure 2).



**Figure 2:**  
Soils and Topography  
Forrest Park, Bunbury

Client: City of Bunbury  
Date: 22/03/2021  
Created by: K. Sadgrove  
Image Source: Nearmap, 2021  
Datum: GDA 94



## 2.4 Vegetation Complex

One vegetation complex was identified within the survey area from the desktop review, namely the Vasse Complex. Described by Heddle et al (1980), the Vasse Complex is a mixture of closed-scrub of *Melaleuca* spp. fringing open-forests and woodlands of Tuart, Jarrah and Marri. Other species included *Melaleuca raphiophylla*, *M. preissiana*, *Acacia saligna* and *Casuarina obesa*. *Halosarcia* sp. (syn. *Arthrocnemum*) and *Salicornia* spp. along with other samphire species grow extensively in areas subject to inundation, which includes the Peel Inlet.

## 2.5 Tenure and Current Land Use

Forest Park is currently zoned as a Public Open Space according to the City's Local Planning Scheme No. 8, currently serving as a recreational space for public use as well as hosting various sporting events on its grounds (City of Bunbury, 2021). Primarily being a multi-use sporting space for soccer and cricket, it contains supporting infrastructure such as carparks and change rooms.

## 2.6 Fauna Habitat

There is potential for the three threatened black cockatoos and their habitat to occur on site including, the Carnaby's Cockatoo (*Calyptorhynchus latirostris*) listed as endangered under the *Environment Protection and Biodiversity Conservation Act (EPBC) Act 1999* (Cwlth), the Forest Red-tailed Black Cockatoo (*Calyptorhynchus banksia naso*) and the Baudin's Black Cockatoo (*Calyptorhynchus baudinii*) listed as vulnerable; all are listed as threatened under the *Biodiversity Conservation Act 2016* (WA). Western Ringtail Possums (*Pseudocheirus occidentalis*), which also have the potential to occur on site, are listed as threatened under the *Biodiversity Conservation Act 2016* (WA) and as Critically Endangered under the *EPBC Act 1999* (Cwlth).

According to NationalMap, the Forrest Park survey area is located within a Carnaby's Cockatoo Unconfirmed Breeding Area within the Swan Coastal Plain and Jarrah Forrest IBRA Region (DBCA 2021d). Within close proximity of the site, NationalMap identified the following:

- approximately 1.7 km to the west is a Black Cockatoo Roosting Site - Buffered (DBCA 2021e)
- approximately 235 m north is a Carnaby's Cockatoo Area requiring investigating as feeding habitat in the Swan Coastal Plain (SCP) IBRA Region (DBCA 2021f)
- approximately 280 m north is an area rated as high for Western Ringtail Possum habitat suitability (DBCA 2021g).

## 3.0 Methodology

### 3.1 Desktop and Literature Review

Desktop surveys were undertaken to determine:

- likely native and non-native flora and fauna species present
- current extent of native vegetation
- general floristic community types
- likely presence of threatened or priority flora and fauna species
- likely presence of any threatened or priority ecological communities.

The following databases were accessed to obtain relevant information:

- NatureMap (Department of Biodiversity, Conservation and Attractions, 2021b) (Appendix 1)
- Protected Matters Search Tool (Department of Agriculture, Water and the Environment, 2021), (Appendix 2)
- Threatened Flora and Fauna Database Search (Department of Biodiversity Conservation and Attractions. 2021c)
- FloraBase (Department of Biodiversity, Conservation and Attractions, 2021a).

### 3.2 On-ground Flora Methodology

Natural Area personnel, Sharon Hynes surveyed the site on 12 March 2021, with key GPS data recorded using Mappt software on a handheld Samsung tablet. Field activities included:

- walking the site and identifying flora species present, including targeting declared rare and priority species indicated as potentially present during desktop assessments
- assessing vegetation condition across the site
- using a GPS to map locations of significant flora species and boundaries of differing vegetation types and condition
- determining the presence of any further threatened or priority listed flora species and/or ecological communities listed under the *Biodiversity and Conservation Act 2016* (WA) and/or the *Environment Protection and Biodiversity Conservation Act 1999* (Commonwealth).

The basic flora and vegetation survey was carried out in accordance with *EPA Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment* (Environmental Protection Authority, 2016). Samples were collected and any unfamiliar species were recorded and photographed to enable later identification.

### 3.2.1 Vegetation Type

The vegetation type was determined using the structural classes described in *Bush Forever Volume 2* (Government of Western Australia, 2000), and records dominant over, middle and understorey species (Table 1).

**Table 1:** Vegetation structural classes

| Life Form/Height Class | Canopy Percentage Cover |                  |                   |                        |
|------------------------|-------------------------|------------------|-------------------|------------------------|
|                        | 100 – 70%               | 70 – 30%         | 30 – 10%          | 10 – 2 %               |
| Trees over 30 m        | Tall closed forest      | Tall open forest | Tall woodland     | Tall open woodland     |
| Trees 10 – 30 m        | Closed forest           | Open forest      | Woodland          | Open woodland          |
| Trees under 10 m       | Low closed forest       | Low open forest  | Low woodland      | Low open woodland      |
| Tree Mallee            | Closed tree mallee      | Tree mallee      | Open tree mallee  | Very open tree mallee  |
| Shrub Mallee           | Closed shrub mallee     | Shrub mallee     | Open shrub mallee | Very open shrub mallee |
| Shrubs over 2 m        | Closed tall scrub       | Tall open scrub  | Tall shrubland    | Tall open shrubland    |
| Shrubs 1 – 2 m         | Closed heath            | Open heath       | Shrubland         | Open shrubland         |
| Shrubs under 1 m       | Closed low heath        | Open low heath   | Low shrubland     | Low open shrubland     |
| Grasses                | Closed grassland        | Grassland        | Open grassland    | Very open grassland    |
| Herbs                  | Closed herbland         | Herbland         | Open herbland     | Very open herbland     |
| Sedges                 | Closed sedgeland        | Sedgeland        | Open sedgeland    | Very open sedgeland    |

(Source: Government of Western Australia, 2000)

### 3.2.2 Vegetation Condition

Vegetation condition was assessed using the rating scale attributed to Keighery in *Bush Forever Volume 2* (Table 2) (Government of Western Australia, 2000).

**Table 2:** Vegetation condition ratings

| Category        | Description                                                                                                                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     Pristine  | Pristine or nearly so, no obvious signs of disturbance.                                                                                                                                                                                        |
| 2     Excellent | Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.                                                                                                                                    |
| 3     Very Good | Vegetation structure altered, obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.                               |
| 4     Good      | Vegetation structure significantly altered by very obvious signs of multiple disturbances. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the |

| Category |                     | Description                                                                                                                                                                                                                                                                                                                   |
|----------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |                     | presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.                                                                                                                                                                                                                                |
| 5        | Degraded            | Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing. |
| 6        | Completely Degraded | The structure of the vegetation is no longer intact, and the area is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.                                                       |

(Source: Government of Western Australia, 2000)

### 3.3 On-ground Fauna Methodology

A basic fauna survey was undertaken in conjunction with other survey activities. The on-ground fauna survey was completed in accordance with a Basic Fauna Survey as outlined in the *Environmental Protection Authority (EPA) Technical Guidance, Terrestrial vertebrate fauna surveys for environmental impact assessment* (EPA, 2020). The fauna survey included recording opportunistic sightings of fauna species while traversing the survey area along with recording evidence of their presence in the form of:

- scats
- tracks
- diggings
- burrows and dens
- calls.

Targeted surveys were conducted for the presence of suitable habitat for the Western Ringtail Possum (*Pseudocheirus occidentalis*) and the three threatened black cockatoos, with methodology including the following:

- The target survey for Western Ringtail Possums recorded:
  - locations of suitable habitat trees (*Agonis flexuosa*)
  - presence of dreys and/or scats
  - other presence indicators.
- The targeted Black Cockatoo habitat survey recorded:
  - locations of habitat trees with a diameter at breast height (DBH) of > 500 mm which have the potential to provide habitat in the form of foraging, roosting or hollows for threatened black cockatoos
  - recording of the species of the habitat trees if they contain hollows
  - recording direct sighting of birds within the survey area including the presence of foraging in the form of chewed nuts
  - a photograph of each habitat tree and its canopy.

### 3.4 Limitations

Several limitations associated with both desktop and on-ground flora and fauna surveys exist, including:

- survey was conducted outside of the optimal time of year for flora surveys in the south-west region, with those species present at the time of the survey recorded
- database searches provide an indication of what flora species may be present within the site, with on ground surveys required to confirm those present
- information on flora species provided on some databases include out-of-date species names, meaning that names need to be checked for currency
- plant species flower at different times and are not always able to be identified
- on-ground surveys indicate species present at the time of the assessment, with species flowering at different times not always able to be identified
- not all species flower every year
- the differing databases are reliant on information submitted via various reporting mechanisms, so all records of a particular species or ecological community within a specified area may not be complete
- some fauna species are highly mobile and may utilise the site as part of their range but may not be present within the site at the time of the survey
- certain fauna species are shy or difficult to observe and may not be observed even though they are present on site.

Despite these limitations, Natural Area estimates that 80 – 90% of flora species within the survey area were identified.

## 4.0 Results

### 4.1 Flora Desktop Survey

A review of NatureMap identified a total of 532 flora species which could potentially occur within a 5km radius of the survey site including:

- 334 dicotyledons
- two gymnosperms
- 195 monocots
- one fern.

#### 4.1.1 Significant Flora

A review of NatureMap indicated 15 conservation significant flora species listed under the *Biodiversity Conservation Act 2016* (WA), potentially occurring within 5 km of the survey site (Department of Biodiversity, Conservation and Attractions, 2021a). A review of the Protected Matters Search Tool (PMST) indicated that 14 significant flora species listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) (Cwlth) have the potential to occur within a 5 km radius of the survey site (Department of the Environment and Energy, 2021). A review of the DBCA's threatened and priority flora database indicated 17 conservation significant species have been previously recorded within a 5 km buffer of the survey site (DBCA 2021c).

Of the 29 conservation significant species potentially found in the area (Table 3), it is highly unlikely that these species are present within the site, due to the site being a heavily modified ecosystem with high anthropogenic impacts (i.e., regular mowing and turf management) throughout. Conservation code descriptions are provided in Appendix 3.

**Table 3:** Threatened and Priority flora species listed by NatureMap and PMST

| Species Name                          | Cons. Code | NatureMap | PMST | DBCA |
|---------------------------------------|------------|-----------|------|------|
| <i>Acacia flagelliformis</i>          | P4         | X         |      | X    |
| <i>Acacia semitrullata</i>            | P4         | X         |      |      |
| <i>Andersonia gracilis</i>            | EN         |           | X    |      |
| <i>Aponogeton hexatepalus</i>         | P4         | X         |      | X    |
| <i>Austrostipa bronwenae</i>          | T/EN       | X         | X    | X    |
| <i>Austrostipa jacobsoniana</i>       | T/CR       | X         | X    | X    |
| <i>Banksia nivea subsp. uliginosa</i> | EN         |           | X    |      |
| <i>Caladenia huegelii</i>             | EN         |           | X    |      |
| <i>Caladenia speciosa</i>             | P4         | X         |      | X    |
| <i>Carex tereticaulis</i>             | P3         |           |      | X    |
| <i>Diuris drummondii</i>              | T/VU       | X         | X    | X    |
| <i>Diuris micrantha</i>               | VU         |           | X    |      |

| Species Name                                         | Cons. Code | NatureMap | PMST | DBCA |
|------------------------------------------------------|------------|-----------|------|------|
| <i>Diuris purdiei</i>                                | EN         |           | X    |      |
| <i>Drakaea elastica</i>                              | EN         |           | X    |      |
| <i>Drakaea micrantha</i>                             | VU         |           | X    |      |
| <i>Eleocharis keigheryi</i>                          | VU         |           | X    |      |
| <i>Eucalyptus rudis</i> subsp. <i>cratyantha</i>     | P4         | X         |      | X    |
| <i>Lambertia echinata</i> subsp. <i>occidentalis</i> | EN         |           | X    |      |
| <i>Lasiopetalum membranaceum</i>                     | P3         | X         |      | X    |
| <i>Microtis quadrata</i>                             | P4         |           |      | X    |
| <i>Platysace ramosissima</i>                         | P3         | X         |      | X    |
| <i>Puccinellia vassica</i>                           | P1         | X         |      | X    |
| <i>Pultenaea skinneri</i>                            | P4         | X         |      | X    |
| <i>Schoenus benthamii</i>                            | P3         | X         |      | X    |
| <i>Stylidium longitubum</i>                          | P4         |           |      | X    |
| <i>Synaphea</i> sp. Fairbridge Farm                  | CR         |           | X    |      |
| <i>Synaphea</i> sp. Serpentine                       | CR         |           | X    |      |
| <i>Thelymitra variegata</i>                          | P2         | X         |      | X    |
| <i>Verticordia attenuata</i>                         | P3         | X         |      | X    |

#### 4.1.2 Threatened Ecological Communities

A review of the PMST report indicated that there are three listed Threatened Ecological Communities that could potentially occur within 5 km of the site (Table 4). As Forrest Park is parkland cleared, the TEC's identified through the desktop review are considered unlikely to occur due to the degraded nature of the site and lack of native middle and understorey.

**Table 4:** Potential Threatened Ecological Communities within the site

| Name                                                                                                           | Status                | Presence                                                                       |
|----------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------|
| Banksia Woodlands of the Swan Coastal Plain ecological community                                               | Endangered            | Community unlikely to occur within area due to lack on Banksia species present |
| Clay Pans of the Swan Coastal Plain                                                                            | Critically Endangered | Community unlikely to occur within area due to unsuitable habitat              |
| Tuart ( <i>Eucalyptus gomphocephala</i> ) Woodlands and Forests of the Swan Coastal Plain ecological community | Critically Endangered | Community has the possibility to occur within area due to presence of Tuarts   |

## 4.2 Fauna Desktop Survey

A desktop survey of online databases indicated the potential for 50 conservation significant fauna species to occur within 5 km of the survey area (Table 5). NatureMap indicated 41 conservation significant species listed under the *Biodiversity Conservation Act 2016* (WA) as potentially occurring within a 5 km radius of Forrest Park (Department of Biodiversity, Conservation and Attractions, 2021b) (Appendix 1). The Protected Matters Search Tool (PMST) (Department of Agriculture, Water and the Environment, 2021) indicated 15 threatened species listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) (Cwlth) as potentially occurring within a 5 km radius of the site (Appendix 2). A review of the DBCA's threatened and priority fauna database indicated 27 conservation significant species have been previously recorded within a 5 km buffer of the survey site.

Of the 50 conservation significant fauna species potentially found in the area, it is considered that the habitat within Forrest Park may be suitable for five species highlighted green, (Table 5).

**Table 5:** Threatened and Priority flora species listed by NatureMap, PMST, and DBCA

| Species Name                            | Cons. Code | NatureMap | PMST | DBCA |
|-----------------------------------------|------------|-----------|------|------|
| <b>Bird</b>                             |            |           |      |      |
| <i>Ardena carneipes</i>                 | T          | X         |      |      |
| <i>Arenaria interpres</i>               | IA         | X         |      |      |
| <i>Botaurus poiciloptilus</i>           | EN         |           | X    |      |
| <i>Calidris acuminata</i>               | IA         | X         |      | X    |
| <i>Calidris alba</i>                    | IA         | X         |      |      |
| <i>Calidris canutus</i>                 | EN/IA      | X         | X    | X    |
| <i>Calidris ferruginea</i>              | CR         | X         | X    | X    |
| <i>Calidris ruficollis</i>              | IA         | X         |      | X    |
| <i>Calidris tenuirostris</i>            | T          | X         |      | X    |
| <i>Calyptorhynchus banksii naso</i>     | T/VU       | X         | X    | X    |
| <i>Calyptorhynchus baudinii</i>         | EN         | X         | X    | X    |
| <i>Calyptorhynchus latirostris</i>      | EN         | X         | X    | X    |
| <i>Calyptorhynchus sp.</i>              | T          | X         |      | X    |
| <i>Charadrius leschenaultii</i>         | T          | X         |      | X    |
| <i>Falco hypoleucos</i>                 | VU         |           | X    |      |
| <i>Falco peregrinus</i>                 | S          | X         |      | X    |
| <i>Hydroprogne caspia</i>               | IA         | X         |      |      |
| <i>Ixobrychus flavicollis australis</i> | P2         |           |      | X    |
| <i>Limosa lapponica menzbieri</i>       | CR         | X         | X    | X    |

| Species Name                               | Cons. Code | NatureMap | PMST | DBCA |
|--------------------------------------------|------------|-----------|------|------|
| <i>Limosa limosa</i>                       | IA         | X         |      | X    |
| <i>Numenius madagascariensis</i>           | CR         | X         | X    | X    |
| <i>Numenius phaeopus</i>                   | IA         | X         |      |      |
| <i>Oceanites oceanicus</i>                 | IA         | X         |      |      |
| <i>Onychoprion anaethetus</i>              | IA         | X         |      |      |
| <i>Oxyura australis</i>                    | P4         | X         |      | X    |
| <i>Pachyptila turtur subantarctica</i>     | VU         |           | X    |      |
| <i>Pandion cristatus</i>                   | IA         | X         |      |      |
| <i>Plegadis falcinellus</i>                | IA         | X         |      | X    |
| <i>Pluvialis fulva</i>                     | IA         | X         |      |      |
| <i>Pluvialis squatarola</i>                | IA         | X         |      |      |
| <i>Psophodes nigrogularis nigrogularis</i> | T          | X         |      |      |
| <i>Rostratula australis</i>                | EN         |           | X    |      |
| <i>Sterna hirundo</i>                      | IA         | X         |      | X    |
| <i>Sternula nereis nereis</i>              | VU         |           | X    |      |
| <i>Thalasseus bergii</i>                   | IA         | X         |      | X    |
| <i>Thinornis rubricollis</i>               | P4         | X         |      |      |
| <i>Tringa brevipes</i>                     | P4         | X         |      |      |
| <i>Tringa glareola</i>                     | IA         | X         |      |      |
| <i>Tringa nebularia</i>                    | IA         | X         |      | X    |
| <i>Tringa stagnatilis</i>                  | IA         | X         |      | X    |
| <i>Xenus cinereus</i>                      | IA         | X         |      |      |
| <b>Invertebrate</b>                        |            |           |      |      |
| <i>Idiosoma sigillatum</i>                 | P3         | X         |      | X    |
| <b>Mammal</b>                              |            |           |      |      |
| <i>Dasyurus geoffroii</i>                  | VU         |           | X    |      |
| <i>Hydromys chrysogaster</i>               | P4         | X         |      |      |
| <i>Isoodon fusciventer</i>                 | P4         | X         |      | X    |
| <i>Notamacropus irma</i>                   | P4         | X         |      | X    |
| <i>Phascogale tapoatafa wambenger</i>      | S          | X         |      | X    |
| <i>Pseudocheirus occidentalis</i>          | CR         | X         | X    | X    |
| <i>Setonix brachyurus</i>                  | VU         |           | X    |      |

| Species Name        | Cons. Code | NatureMap | PMST | DBCA |
|---------------------|------------|-----------|------|------|
| <b>Reptile</b>      |            |           |      |      |
| <i>Ctenotus ora</i> | P3         |           |      | X    |

### 4.3 Flora On-ground Survey

#### 4.3.1 Flora Species

As the survey area consists of mainly cleared parkland, including sporting ovals, cricket nets and associated buildings, native flora diversity is low with majority of the site consisting of maintained turf with remnant and planted trees. The survey confirmed the presence of 23 flora species from nine families, of which seven are native and 16 introduced species (weeds). No threatened or priority species were recorded during the 2021 survey. Examples of the species observed are shown in Figure 3 and the complete species list is provided in Appendix 4.



*Agonis flexuosa* (Peppermint)



*Eucalyptus gomphocephala*  
(Tuart)



*Melaleuca raphiophylla* (Swamp  
Paperbark)



\**Washingtonia filifera*



\*Pecan Tree (*Carya illinoensis*)



\**Ficus* sp.

**Figure 3:** Species observed during the 2021 survey. \*Denotes introduced species

#### 4.3.2 Vegetation Types

Two vegetation types were recorded within the survey area of Forrest Park, these include:

- Cleared parkland of maintained turf, including sporting oval and associated sporting buildings,
- Parkland of *Agonis flexuosa* (Peppermint) and *Eucalyptus gomphocephala* (Tuart) over maintained grassed areas (Figures 4 and 5).



**Figure 4:** Example of the Parkland of *Agonis flexuosa* and Tuart within Forrest Park.

#### 4.3.3 Vegetation Condition

Vegetation condition across the entire site was classified as Completely Degraded due to the lack of native understorey species with only maintained lawn present under the existing trees. No native middle or understorey species were present within the site with the exception of one shrub of *Rhagodia baccata* (Berry Saltbush) which was growing off the ground and within the trunk of a Tuart tree.

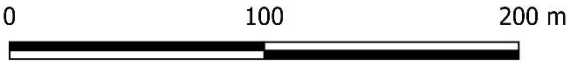
#### 4.3.4 Threatened and Priority Ecological Communities

Due to the Completely Degraded condition of the survey site and the lack of a native middle and understorey the area does not form part of a Threatened Ecological Community (TEC) or Priority Ecological Community (PEC). The only potential TEC indicated by the desktop searches that could occur, based on remnant native species present would be the Tuart (*Eucalyptus gomphocephala*) Woodlands and Forests of the Swan Coastal Plain ecological community. However, due to the Completely Degraded condition of the site and the lack of middle and understory species the area does not meet the TEC requirements.



**Figure 5:**  
Vegetation Type  
Forrest Park, Bunbury

Client: City of Bunbury  
Date: 22/03/2021  
Created by: K. Sadgrove  
Image Source: Nearmap, 2021  
Datum: GDA 94



#### 4.4 Fauna On-ground Survey

A total of 12 vertebrate fauna species were recorded including eight bird species, one mammal, one reptile, and two invertebrates. One conservation significant species, comprising of three individuals of the threatened Forest Red-tailed Black Cockatoo were recorded within a Tuart on the western boundary of the survey area. Also present within several trees were signs of wood boring larvae, which were identified as Ghost Moth larvae (Hepialidae) (Department of Primary Industries and Regional Development, 2021a). Four *Agonis flexuosa* trees showed evidence of these larvae (Figure 6), all of which were observed to be in poor health. No other species of tree showed evidence of being affected. Examples of the fauna observed during the survey are shown in Figure 7, with a complete fauna list provided in Table 6.

**Table 6:** Fauna observations within the Forrest Park survey area. \*Denotes introduced species.

| Family              | Scientific Name                    | Common Name                      |
|---------------------|------------------------------------|----------------------------------|
| <b>Birds</b>        |                                    |                                  |
| Meliphagidae        | <i>Anthochaera carunculata</i>     | Red Wattlebird                   |
| Cacatuidae          | <i>Cacatua roseicapilla</i>        | Galah                            |
| Cacatuidae          | <i>Calyptorhynchus banksii</i>     | Forest Red-tailed Black Cockatoo |
| Cracticidae         | <i>Cracticus tibicen</i>           | Australian Magpie                |
| Monarchidae         | <i>Grallina cyanoleuca</i>         | Magpie-Lark                      |
| Columbidae          | <i>Phaps chalcoptera</i>           | Common Bronzewing                |
| Psittacidae         | <i>Platycercus zonarius</i>        | Twenty-eight Parrot              |
| Rhipiduridae        | <i>Rhipidura leucophrys</i>        | Willie Wagtail                   |
| <b>Mammal</b>       |                                    |                                  |
| Canidae             | <i>Canis familiaris familiaris</i> | *Domestic Dog                    |
| <b>Reptile</b>      |                                    |                                  |
| Scincidae           | <i>Cryptoblepharus buehnanii</i>   | Snake-eyed Skink                 |
| <b>Invertebrate</b> |                                    |                                  |
| Apidae              | <i>Anthochaera carunculata</i>     | *European Bee                    |
| Hepialidae          |                                    | Ghost Moth larvae                |



Evidence of the presence Ghost Moth larvae

**Figure 6:** Factors affecting tree health within Forrest Park



*Australian Magpie (Cracticus tibicen)*



*Galah (Cacatua roseicapilla)*



*Forest Red-tailed Black Cockatoo (Calyptorhynchus banksia)*



*Common Bronzewing (Phaps chalcoptera)*

**Figure 7:** Examples of the fauna species observed during the 2021 survey

## 4.5 Fauna Habitat

Forrest Park provides habitat for both the Western Ringtail Possum and threatened black cockatoos which is discussed in the following sections.

### 4.5.1 Western Ringtail Possum

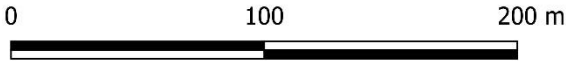
The Western Ringtail Possum is an arboreal mammal that is endemic to the south-west of Western Australia. Populations are often associated with *Agonis flexuosa* Woodlands, with this flora species being a known food resource (Department of Parks and Wildlife, 2014). Several *Agonis flexuosa* were recorded within the site, although no direct observation of the Western Ringtail Possum was recorded during the 2021 survey.

One *Agonis flexuosa* showed signs of scratch marks on the truck indicating potential presence of possums within the site (Figure 8). The survey area contains approximately 2.45 ha of *Agonis flexuosa* habitat with trees at different stages of maturity, with the habitat comprising of trees over managed turf areas (Figure 8). The habitat is mostly continuous around the site although there are several sections where *Agonis flexuosa* is absent, with these areas dominated by introduced tree species. Due to the highly disturbed and modified nature of the parkland, it is more likely that Western Ringtail Possums may utilise the site transiently for foraging or movement rather than having a resident population.



**Figure 8:**  
Western Ringtail Possum Habitat  
Forrest Park, Bunbury

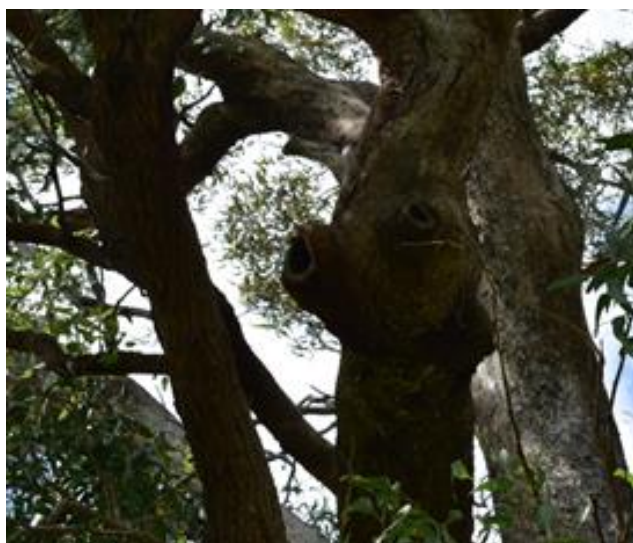
Client: City of Bunbury  
Date: 22/03/2021  
Created by: K. Sadgrove  
Image Source: Nearmap, 2021  
Datum: GDA 94



#### 4.5.2 Black Cockatoo

A total of 138 potential habitat trees (DBH >500 mm) were observed within the site (Figure 10). Of which 39 trees are suitable species which have the potential to provide habitat in the form of roosting, foraging, and nesting for black cockatoos. While the other 99 trees onsite meet the size requirements for a cockatoo habitat tree, these species are not preferred habitat trees for black cockatoos. Preferred tree species include Tuart, Jarrah and Marri and introduced Eucalypts, with black cockatoos unlikely to use other introduced species or Peppermints for roosting or nesting.

During the 2021 survey, three Forest Red-tailed Black Cockatoos were observed within a Tuart tree. However, no signs of nesting or foraging were observed. Of the habitat trees recorded only two had hollows which have the potential to provide nesting habitat for black cockatoos due to the size and the direction of the hole opening, while eight trees contained hollows which are not a sufficient size for cockatoos but provide habitat for other species (Table 7). These smaller hollows can have the potential to become suitable for black cockatoos in the future. It was noted during the survey that most of the Jarrah (*Eucalyptus marginata*) present were in poor health with the crown of the trees reduced in size. Example tree hollows are shown in Figure 9 and the recorded habitat trees are summarised in Table 7. Habitat tree locations are shown in Figure 10, with trees with hollows shown in Figure 11 (Appendix 5).



Small hollows, not considered suitable for Cockatoos



Black Cockatoo potential hollows (close-up photo), although one of the two hollows had Galah feathers around the entrance indicating potential use by Galahs

**Figure 9:** Examples of hollows present within the trees at Forrest Park.

**Table 7:** Habitat trees within Forrest Park, \*denotes introduced species

| Habitat Tree Species                               | Number of trees<br>habitat trees<br>(DBH >500mm) | Hollows – Cockatoo<br>Potential<br>(no. of trees) | Small Hollows<br>(no. of trees) |
|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------|---------------------------------|
| <i>Agonis flexuosa</i><br>(Peppermint)             | 83                                               | -                                                 | -                               |
| <i>Corymbia calophylla</i> (Marri)                 | 2                                                | -                                                 | -                               |
| <i>Erythrina x sykesii</i> *                       | 12                                               | -                                                 | -                               |
| <i>Eucalyptus gomphocephala</i><br>(Tuart)         | 28                                               | 2                                                 | 8                               |
| <i>Eucalyptus marginata</i><br>(Jarrah)            | 5                                                | -                                                 | -                               |
| <i>Eucalyptus sp.*#</i>                            | 4                                                | -                                                 | -                               |
| <i>Melaleuca raphiophylla</i><br>(Swamp Paperbark) | 4                                                | -                                                 | -                               |
| <b>Total</b>                                       | <b>138</b>                                       | <b>2</b>                                          | <b>8</b>                        |

#Eucalupt species which are not native to the South West region



**Figure 10:**  
Habitat Trees  
Forrest Park, Bunbury

Client: City of Bunbury  
Date: 31/03/2021  
Created by: K. Sadgrove  
Image Source: Nearmap, 2021  
Datum: GDA 94

0 100 200 m





**Figure 11:**  
Habitat Trees  
Forrest Park, Bunbury

Client: City of Bunbury  
Date: 31/03/2021  
Created by: K. Sadgrove  
Image Source: Nearmap, 2021  
Datum: GDA 94



## 5.0 Recommendations and Conclusion

### 5.1 Flora and Vegetation

Natural Area's 2021 survey recorded 23 flora species from seven families, of which 16 (69.6%) were introduced and seven (30.4%) were native species. Two vegetation types were determined within the survey site, Cleared areas of maintained turf and Parkland of *Agonis flexuosa* and *Eucalyptus gomphocephala*. Vegetation condition was classified as Completely Degraded due to the lack of native middle and understorey species and the maintained lawn present under the existing trees, which are a combination of introduced and native species.

### 5.2 Significant Flora

No significant flora was recorded during the Autumn 2021 survey. Due to the survey taking place outside of the optimal time of year (spring) the potential presence of some conservation significant flora cannot be ruled out (e.g., orchid species). Although, the presence of significant flora is considered highly unlikely, due to the degraded nature of the site and the site consisting of managed turf areas.

### 5.3 Threatened and Priority Ecological Communities

No priority or threatened ecological communities (TEC) were recorded during the 2021 survey due to the completely degraded nature of the site and the lack of vegetation strata layers to meet the requirements of potential TEC's identified through desktop searches.

### 5.4 Fauna

The 2021 survey confirmed the presence of 12 vertebrate fauna species including eight bird species, one mammal, one reptile, and two invertebrates. One conservation significant species, the threatened Forest Red-tailed Black Cockatoo (three individuals) was recorded within a Tuart on the western boundary of the survey area. Ghost Moth larvae (Hepialidae) were also identified within the survey area which were observed to be having a negative impact on the health of affected trees, which was noted to only occur on *Agonis flexuosa*. As Forrest Park is utilised for various recreational activities and sporting events, with roads and urban development surrounding the site and a highly modified vegetation structure and composition, shy and cryptic fauna species would most likely have emigrated from the area due to noise and light disturbance and the close proximity to urban activities.

### 5.5 Significant Fauna

Potential habitat for threatened Black Cockatoos and Western Ringtail Possums is present within Forrest Park and is discussed in sections 5.5.1 and 5.5.2, respectively.

#### 5.5.1 Black Cockatoo Habitat

A total of 138 habitat trees (DBH > 500mm) were recorded within Forrest Park, of which 39 trees are suitable/preferred habitat tree species, which have the potential to provide habitat in the form of roosting, foraging, and nesting for black cockatoos. While the other 99 trees onsite meet the size requirements for a cockatoo habitat tree, these species are not preferred habitat trees for black cockatoos and are comprised of introduced species or Peppermints.

Of the 39 black cockatoo habitat trees recorded only two had hollows with the potential to provide nesting habitat for black cockatoos due to the size and the direction of the hole opening. Eight trees contained smaller hollows that are not a sufficient size for cockatoos but provide habitat for other species, these hollows do have the potential to become suitable for black cockatoos in the future. No observations of nesting or foraging were observed during the 2021 survey. An assessment of the site characteristics have been made against the black cockatoo referral guideline and are described in Table 8.

As the total proposed clearing area is unknown, the entire site has been assessed for impacts. As there is more than 1 ha of foraging habitat for black cockatoos, and 39 roosting trees with two containing hollows of suitable size for black cockatoos, if this entire area is to be cleared a referral under the EPBC Act is recommended. To mitigate impacts to cockatoo habitat the best area to develop would be to the west of the current club house/change rooms where the current car park is located, as there are no cockatoo habitat trees in this area. A pre-referral meeting can be undertaken to discuss the proposal under the EPBC Act and determine what is required to be included in the submission to the Department of Agriculture, Water and the Environment.

**Table 8:** Referral guidelines for the three threatened black cockatoos

| Guidelines                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>High risk of significant impacts: referral recommended</p> <ul style="list-style-type: none"> <li>Clearing of any known nesting tree</li> <li>Clearing or degradation of any part of a vegetation community known to contain breeding habitat</li> <li>Clearing of more than 1 ha of quality foraging habitat.</li> <li>Clearing or degradation (including pruning the top canopy) of a known night roosting site</li> <li>Creating a gap of greater than 4 km between patches of black cockatoo habitat (breeding, foraging or roosting).</li> </ul> | <ul style="list-style-type: none"> <li>No signs of nesting by black cockatoos was observed during Natural Area's 2021 survey.</li> <li>A total of 138 habitat trees (DBH &gt; 500mm) were recorded with Forrest Park, of which 39 trees are suitable/preferred habitat tree species which have the potential to provide habitat in the form of roosting, foraging and nesting for black cockatoos. While the other 99 trees onsite meet the size requirements for a cockatoo habitat tree, these species are not preferred habitat trees for black cockatoos and are comprised of introduced species. Of the habitat trees recorded two had hollows which have the potential to provide nesting habitat for black cockatoos due to the size and the direction of the hole opening. Eight trees contained hollows which are not a sufficient size for cockatoos but provide habitat for other species, these hollows can have the potential to become suitable in the future for cockatoos.</li> <li>The Forrest Park survey area contains more than 1 ha of black cockatoo foraging habitat for black cockatoos</li> <li>Forrest Park occurs within a Carnaby's Cockatoo Unconfirmed Breeding Areas within the Swan Coastal Plain and Jarrah Forrest IBRA Region (DBCA 2021d) with no confirmed roosting or breeding sites listed as occurring within the site. No evidence of foraging was observed during the March 2021 survey.</li> <li>The site occurs within a highly modified urban area with limited native vegetation present. Clearing of vegetation would not create a gap of greater than 4 km between patches of black cockatoo habitat.</li> </ul> |
| <p>Uncertainty: referral recommended or contact the department</p> <ul style="list-style-type: none"> <li>Degradation (such as through altered hydrology or fire regimes) of more than 1 ha of foraging habitat. Significance will depend on the level</li> </ul>                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Vegetation condition within the survey area is Completely Degraded with potential future disturbances unlikely to further degrade the vegetation condition.</li> <li>The Forrest Park survey area contains more than 1 ha of foraging habitat although due to the lack of nuts, poor health of existing trees and the presence of smaller sized trees, condition is considered to be poor.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Guidelines                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>and extent of degradation and the quality of the habitat.</p> <ul style="list-style-type: none"> <li>Clearing or disturbance in areas surrounding black cockatoo breeding, foraging or night roosting habitat that has the potential to degrade habitat through introduction of invasive species, edge effects, hydrological changes, increased human visitation or fire.</li> <li>Actions that do not directly affect the listed species but that have the potential for indirect impacts such as increasing competitors for nest hollows.</li> <li>Actions with the potential to introduce known plant diseases such as <i>Phytophthora</i> spp. to an area where the pathogen was not previously known.</li> </ul> | <ul style="list-style-type: none"> <li>Current land use as a recreational sports oval and park presents existing disturbances and anthropogenic influences including frequent human visitation, hydrological influences through parkland irrigation and edge effects including weed introduction from surrounding urban areas.</li> <li>Proposed clearing is within an urban area which has previously been extensively cleared for housing with common urban avian species present within the site. Nesting competition would currently exist and is not expected to be increased by the proposed works.</li> <li>As the site is in a Parkland cleared state the habitat within the site is already degraded with a highly modified vegetation structure.</li> <li>The proposed clearing is not expected to introduce plant diseases into the area if hygiene and machinery hygiene is maintained during development works including potential clearing.</li> </ul> |
| <p>Low risk of significant impacts: referral may not be required</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>Actions that do not affect black cockatoo habitat or individuals.</li> <li>Actions whose impacts occur outside the modelled distribution of the three black cockatoos.</li> <li>Actions are expected to have an effect on black cockatoos as individuals were observed during the 2021 survey and the site occurs within a Carnaby's Cockatoo Unconfirmed Breeding Areas within the Swan Coastal Plain and Jarrah Forrest IBRA Region (DBCA 2021d).</li> <li>Forrest Park survey area could potentially provide roosting, and low quality and limited foraging habitat for black cockatoos and is likely to be used transiently.</li> </ul>                                                                                                                                                                                                                                                                                   |

### 5.5.2 Possum Habitat

No direct observations of the Western Ringtail Possum were recorded during the 2021 survey, with one *Agonis flexuosa* (Peppermint) showing signs of scratch marks on the trunk indicating the presence of possums within the site. Approximately 2.45 ha of Forrest Park contains *Agonis flexuosa* trees with different stages of maturity, which has the potential to provide habitat. As there is a consistent number and coverage of *Agonis flexuosa* within the vegetated area surrounding the sporting oval this acts as a corridor of habitat for the Western Ringtail Possum. As there were no signs of dreys or possums during the survey it likely that the site is used transiently rather than supporting a resident population. Recorded opportunistic sightings of the Western Ringtail Possum has occurred within the vicinity of the site with the closest, approximately 300 m to the south east according to the DBCA database (DBCA 2021c).

According to the EPBC Act policy statement 3.10, *Significant impact guidelines for the vulnerable western ringtail possum (Pseudocheirus occidentalis) in the southern Swan Coastal Plain, Western Australia*, Forrest Park is located within Supporting Habitat (Area 3) (Department of the Environment, Water, Heritage, and the Arts 2009). As the total proposed clearing area is unknown, a Significant Impact Assessment for the entire site was undertaken and outlined in Table 9. As Forrest Park contains 2.45 ha of potential possum habitat, this exceeds the minimum threshold level (0.5 ha) and may be deemed a controlled action and referral to DAWE is recommended.

**Table 9:** Significant Impact Assessment Criteria for Area 3- Supporting Habitat

| Actions with Potential Significant Impacts                                                   | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clearing in a remnant habitat patch that is greater than 0.5 ha in size                      | <ul style="list-style-type: none"> <li>Forrest Park contains approximately 2.45 ha of <i>Agonis flexuosa</i> habitat with trees at different stages of maturity. The habitat is comprised of trees over managed turf areas. The vegetation condition of the site is Completely Degraded due to the lack of middle and understory species.</li> <li>Portions of the park do not contain suitable habitat and is comprised of managed lawns and introduced tree species.</li> <li>While Forrest Park exceeds the minimum remnant habitat patch threshold level (0.5 ha), its current land use as a recreation park and lack of middle and understorey flora reduces the habitat potential. Fauna is more likely to utilise the site transiently for foraging and movement rather than establishing a resident population.</li> </ul> |
| Clearing of more than 50 % of a remnant habitat patch that is between 0.1 and 0.5 ha in size | Forrest Park contains more than 0.5 ha of possum habitat in the form of <i>Agonis flexuosa</i> over maintained turf.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Fragmentation of existing habitat linkages                                                   | <ul style="list-style-type: none"> <li>If clearing of the entire area is to take place it is considered that fragmentation of the existing habitat linkages would occur as the current habitat would</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Actions with Potential Significant Impacts | Comment                                                                                                                                                                                                                                                                        |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | <p>provide continuous vegetation which allows for the movement of possums within Forrest Park.</p> <ul style="list-style-type: none"><li>▪ Surrounding land use of Forrest Park is urban housing, with previous clearing causing fragmentation of potential habitat.</li></ul> |

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## 5.6 Assessment Against Clearing Principles

An assessment of information obtained during the 2021 survey has been made against the Western Australian clearing principles. It is suggested that the clearing application may be at variance with two (Principle B and E) of the ten clearing principles (Department of Environment and Regulation, 2014) (Table 10). As the total proposed clearing area is unknown, the entire site has been assessed against the ten clearing principles. If future planning involves clearing that triggers an EPBC Act referral, assessment may be undertaken under the bilateral agreement for both state and commonwealth agencies to assess the project under a single process.

## 5.7 Recommendations

Natural Area has the following recommendations to aid in reducing any potential environmental impacts to the site:

- Apply local protection methods to important individual trees including the retention of mature habitat trees (DBH >500 mm) where possible particularly those containing hollows which provide nesting for all bird species.
- Native habitat trees (*Eucalyptus gomphocephala* and *Agonis flexuosa*) including both alive and dead trees, with DBH >500mm with hollows of any size, should be prioritised for retention.
- Habitat trees (DBH >500mm) should be retained where possible. If they are proposed to be removed, these should be replaced with native species representative of the area, including *Eucalyptus gomphocephala* and *Agonis flexuosa*.
- If clearing is to occur, prioritise the retention of Western Ringtail Possum habitat (Figure 8), with clearing of non-native trees preferable with the development of areas which contain no native species prioritised to mitigate impact to threaten fauna habitat for both the Western Ringtail Possum and black cockatoos.
- If clearing of trees is to occur it is recommended to be conducted outside of peak breeding season (spring) when avian species may utilise trees as potential nesting sites.

**Table 10:** Assessment against clearing principles

| Clearing Principle                                                                                                                                                                                | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A Native vegetation should not be cleared if it comprises a high level of biological diversity.</p>                                                                                            | <p>The proposed area to be cleared is not likely to be at variance with this principle:</p> <ul style="list-style-type: none"> <li>▪ A total of 23 flora species from nine families, of which seven are native (30.4%) and 16 (69.6%) are introduced. No significant flora was identified within the site during the March 2021 survey.</li> <li>▪ The survey area consists of mainly cleared parkland, including sporting ovals, cricket nets and associated buildings, native flora diversity is low with majority of the site consisting of maintained turf with planted trees.</li> <li>▪ Two vegetation types present, Cleared Parkland consisting of maintained turf, including sporting oval and associated sporting buildings and Parkland of <i>Agonis flexuosa</i> (Peppermint) and <i>Eucalyptus gomphocephala</i> (Tuart) over maintained grassed areas.</li> <li>▪ Vegetation condition across the entire site was Completely Degraded due to the lack of native species and the maintained lawn present under the existing trees.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>B Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.</p> | <p>The proposed area to be cleared is likely to be at variance with this principle:</p> <ul style="list-style-type: none"> <li>▪ Forrest Park provides habitat for threatened black cockatoos and the Western Ringtail Possum.</li> <li>▪ The site contains approximately 2.45 ha of <i>Agonis flexuosa</i> habitat with trees at varying stages of maturity habitat comprising of trees over managed turf areas. The habitat provided is mostly continuous around the site although there are several sections where <i>Agonis flexuosa</i> is absent and these areas are dominated by introduced species.</li> <li>▪ No individuals, scats or dreys of the Western Ringtail Possum were recorded during the 2021 survey although one <i>Agonis flexuosa</i> tree showed signs of scratch marks on the trunk indicating the presence of possums within the site.</li> <li>▪ A total of 138 potential habitat trees (DBH &gt;500 mm) for black cockatoos were observed within the site, of which 39 trees are suitable species which have the potential to provide habitat in the form of roosting, foraging and nesting for black cockatoos. While the other 99 trees onsite meet the size requirements for a cockatoo habitat tree, these species are not preferred habitat species.</li> <li>▪ Two habitat trees had hollows which have the potential to provide nesting habitat for black cockatoos due to the size and the direction of the hole opening, while eight trees contained hollows which are not a</li> </ul> |

|   |                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                                                                                                                                           | <p>sufficient size for cockatoos but provide habitat for other species. These hollows have the potential to become suitable in the future.</p> <ul style="list-style-type: none"> <li>During the 2021 three Forest Red-tailed Black Cockatoos were observed within a Tuart tree, no signs of nesting or foraging were observed during 2021 survey.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  |
| C | Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.                                       | <p>The proposed area to be cleared is not likely to be at variance with this principle:</p> <ul style="list-style-type: none"> <li>No rare or priority flora was recorded during the March 2020/21 survey, although the survey was not conducted at the optimal time of year (spring) for the south west region.</li> <li>Due to the Completely Degraded nature of the site with the vegetation consisting of trees over heavily maintained turf areas the presence of significant flora within the site is considered unlikely.</li> </ul>                                                                                                                                                                                                    |
| D | Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community. | <p>The proposed area to be cleared is not at variance with this principle:</p> <ul style="list-style-type: none"> <li>No threatened or priority ecological communities were identified as occurring within the survey area.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| E | Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.              | <p>The proposed area to be cleared is likely to be at variance with this principle:</p> <ul style="list-style-type: none"> <li>Forrest Park contains remnant <i>Agonis flexuosa</i> vegetation (approximately 2.45 ha) which consists of trees at varying states of maturity over maintained lawns within a parkland setting. Vegetation condition within the site is Completely Degraded with no middle or understorey present.</li> <li>Land use surrounding Forrest Park has been extensively cleared for urban development consisting of housing and roads.</li> <li>The site is situated within the Vasse Complex of the Swan Coastal Plain with 34.84% (4656.67 ha) of Pre-European vegetation remaining within this complex.</li> </ul> |
| F | Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.             | <p>The proposed area to be cleared is not at variance with this principle as Forrest Park is not associated with a watercourse or wetland.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|   |                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G | Native Vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.                                                     | The proposed area to be cleared is not likely to be at variance with this principle as it is not expected to cause further land degradation, with the area to be cleared around existing sporting fields and associated building within a highly modified parkland environment.                                                                                                                                                                                    |
| H | Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area. | <p>The proposed area to be cleared is not likely to be at variance with this principle:</p> <ul style="list-style-type: none"> <li>▪ The proposed clearing area is located within an existing parkland which is surrounded by urban development and roads. Clearing is not expected to have an impact on the surrounding area.</li> <li>▪ Forrest park is located approximately 900m to the east of the closest conservation reserve, Big Swamp Reserve</li> </ul> |
| I | Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.                     | <p>The proposed area to be cleared is not likely to be at variance with this principle:</p> <ul style="list-style-type: none"> <li>▪ No surface water courses were identified during the 2021 survey.</li> <li>▪ The proposed clearing is not expected to impact underground water with the surrounding area already subjected to clearing and housing development.</li> </ul>                                                                                     |
| J | Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence of flooding.                                               | The proposed area to be cleared is not likely to be at variance with this principle as Forrest Park occurs in an urban area which has been previously cleared and developed with the proposed clearing not expected to change or exacerbate the incidence of flooding.                                                                                                                                                                                             |

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## **Appendix 1: NatureMap**

# NatureMap Species Report

Created By Guest user on 04/03/2021

Current Names Only Yes

Core Datasets Only Yes

Method 'By Circle'

Centre 115° 38' 51" E, 33° 20' 35" S

Buffer 5km

Group By Species Group

| Species Group       | Species    | Records      |
|---------------------|------------|--------------|
| Alga                | 20         | 27           |
| Amphibian           | 9          | 249          |
| Bird                | 189        | 8267         |
| Bryopsid (Moss)     | 12         | 18           |
| Dicotyledon         | 334        | 583          |
| Fish                | 61         | 93           |
| Fungus              | 3          | 9            |
| Gymnosperm          | 2          | 2            |
| Hepatic (Liverwort) | 1          | 1            |
| Invertebrate        | 63         | 192          |
| Lichen              | 14         | 15           |
| Mammal              | 27         | 1180         |
| Monocotyledon       | 195        | 343          |
| Pteridophyte (Fern) | 1          | 1            |
| Reptile             | 33         | 163          |
| <b>TOTAL</b>        | <b>964</b> | <b>11143</b> |

|                  | Name ID | Species Name                                                         | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|------------------|---------|----------------------------------------------------------------------|-------------|-------------------|------------------------------------|
| <b>Alga</b>      |         |                                                                      |             |                   |                                    |
| 1.               | 35909   | <i>Amansia pinnatifida</i>                                           |             |                   |                                    |
| 2.               | 26586   | <i>Caulocystis uvifera</i>                                           |             |                   |                                    |
| 3.               | 26607   | <i>Chaetomorpha aerea</i>                                            |             |                   |                                    |
| 4.               | 26663   | <i>Cladurus elatus</i>                                               |             |                   |                                    |
| 5.               | 26666   | <i>Cliftonaea pectinata</i>                                          |             |                   |                                    |
| 6.               | 26667   | <i>Codiophyllum flabelliforme</i>                                    |             |                   |                                    |
| 7.               | 26720   | <i>Cystophora grevillei</i>                                          |             |                   |                                    |
| 8.               | 26854   | <i>Gigartina disticha</i>                                            |             |                   |                                    |
| 9.               | 26877   | <i>Grateloupia filicina</i>                                          |             |                   |                                    |
| 10.              | 27090   | <i>Myriodesma quercifolium</i>                                       |             |                   |                                    |
| 11.              | 27126   | <i>Petalonia fascia</i>                                              |             |                   |                                    |
| 12.              | 27131   | <i>Phacelocarpus alatus</i>                                          |             |                   |                                    |
| 13.              | 27151   | <i>Platythalia angustifolia</i>                                      |             |                   |                                    |
| 14.              | 27195   | <i>Pterocladia lucida</i>                                            |             |                   |                                    |
| 15.              | 27238   | <i>Sargassum distichum</i>                                           |             |                   |                                    |
| 16.              | 27249   | <i>Sargassum linearifolium</i>                                       |             |                   |                                    |
| 17.              | 35911   | <i>Scytosiphon lomentaria</i>                                        |             |                   |                                    |
| 18.              | 27327   | <i>Thamnoclonium dichotomum</i>                                      |             |                   |                                    |
| 19.              | 27345   | <i>Turbinaria gracilis</i>                                           |             |                   |                                    |
| 20.              | 35260   | <i>Ulva compressa</i>                                                |             |                   |                                    |
| <b>Amphibian</b> |         |                                                                      |             |                   |                                    |
| 21.              | 25398   | <i>Crinia georgiana</i> (Quacking Frog)                              |             |                   |                                    |
| 22.              | 25399   | <i>Crinia glauerti</i> (Clicking Frog)                               |             |                   |                                    |
| 23.              | 25400   | <i>Crinia insignifera</i> (Squelching Froglet)                       |             |                   |                                    |
| 24.              | 25404   | <i>Geocrinia leai</i> (Ticking Frog)                                 |             |                   |                                    |
| 25.              | 25410   | <i>Heleioporus eyrei</i> (Moaning Frog)                              |             |                   |                                    |
| 26.              | 25415   | <i>Limnodynastes dorsalis</i> (Western Banjo Frog)                   |             |                   |                                    |
| 27.              | 25378   | <i>Litoria adelaidensis</i> (Slender Tree Frog)                      |             |                   |                                    |
| 28.              | 25388   | <i>Litoria moorei</i> (Motorbike Frog)                               |             |                   |                                    |
| 29.              | 25433   | <i>Pseudophryne guentheri</i> (Crawling Toadlet)                     |             |                   |                                    |
| <b>Bird</b>      |         |                                                                      |             |                   |                                    |
| 30.              | 24260   | <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill) |             |                   |                                    |
| 31.              | 24261   | <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)               |             |                   |                                    |
| 32.              | 24262   | <i>Acanthiza inornata</i> (Western Thornbill)                        |             |                   |                                    |

| Name ID | Species Name                                                                                            | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|---------------------------------------------------------------------------------------------------------|-------------|-------------------|------------------------------------|
| 33.     | 24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)                                          |             |                   |                                    |
| 34.     | 25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)                                             |             |                   |                                    |
| 35.     | 25536 <i>Accipiter fasciatus</i> (Brown Goshawk)                                                        |             |                   |                                    |
| 36.     | 25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)                                           |             |                   |                                    |
| 37.     | 41323 <i>Actitis hypoleucos</i> (Common Sandpiper)                                                      |             | IA                |                                    |
| 38.     | 24310 <i>Anas castanea</i> (Chestnut Teal)                                                              |             |                   |                                    |
| 39.     | 24312 <i>Anas gracilis</i> (Grey Teal)                                                                  |             |                   |                                    |
| 40.     | 24313 <i>Anas platyrhynchos</i> (Mallard)                                                               |             |                   |                                    |
| 41.     | <i>Anas platyrhynchos</i> subsp. <i>domesticus</i>                                                      |             |                   |                                    |
| 42.     | 24315 <i>Anas rhynchos</i> (Australasian Shoveler)                                                      |             |                   |                                    |
| 43.     | 24316 <i>Anas superciliosa</i> (Pacific Black Duck)                                                     |             |                   |                                    |
| 44.     | 47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)                                              |             |                   |                                    |
| 45.     | 24561 <i>Anthochaera carunculata</i> (Red Wattlebird)                                                   |             |                   |                                    |
| 46.     | 24562 <i>Anthochaera lunulata</i> (Western Little Wattlebird)                                           |             |                   |                                    |
| 47.     | 24285 <i>Aquila audax</i> (Wedge-tailed Eagle)                                                          |             |                   |                                    |
| 48.     | 25558 <i>Ardea ibis</i> (Cattle Egret)                                                                  |             |                   |                                    |
| 49.     | 41324 <i>Ardea modesta</i> (great egret, white egret)                                                   |             |                   |                                    |
| 50.     | 24340 <i>Ardea novaehollandiae</i> (White-faced Heron)                                                  |             |                   |                                    |
| 51.     | 24341 <i>Ardea pacifica</i> (White-necked Heron)                                                        |             |                   |                                    |
| 52.     | 41326 <i>Ardena carneipes</i> (Flesh-footed Shearwater, Flesh-footed Shearwater)                        |             | T                 |                                    |
| 53.     | 25736 <i>Arenaria interpres</i> (Ruddy Turnstone)                                                       |             | IA                |                                    |
| 54.     | 25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)                                                 |             |                   |                                    |
| 55.     | 24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)                                                    |             |                   |                                    |
| 56.     | 24318 <i>Aythya australis</i> (Hardhead)                                                                |             |                   |                                    |
| 57.     | <i>Barnardius zonarius</i>                                                                              |             |                   |                                    |
| 58.     | 24319 <i>Biziura lobata</i> (Musk Duck)                                                                 |             |                   |                                    |
| 59.     | 24359 <i>Burhinus grallarius</i> (Bush Stone-curlew)                                                    |             |                   |                                    |
| 60.     | 25714 <i>Cacatua pastinator</i> (Western Long-billed Corella)                                           |             |                   |                                    |
| 61.     | 25716 <i>Cacatua sanguinea</i> (Little Corella)                                                         |             |                   |                                    |
| 62.     | 25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)                                              |             |                   |                                    |
| 63.     | 42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)                                                        |             |                   |                                    |
| 64.     | 24779 <i>Calidris acuminata</i> (Sharp-tailed Sandpiper)                                                |             | IA                |                                    |
| 65.     | 24780 <i>Calidris alba</i> (Sanderling)                                                                 |             | IA                |                                    |
| 66.     | 25738 <i>Calidris canutus</i> (Red Knot, knot)                                                          |             | IA                |                                    |
| 67.     | 24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)                                                     |             | T                 |                                    |
| 68.     | 24788 <i>Calidris ruficollis</i> (Red-necked Stint)                                                     |             | IA                |                                    |
| 69.     | 24790 <i>Calidris tenuirostris</i> (Great Knot)                                                         |             | T                 |                                    |
| 70.     | 25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)                                        |             |                   |                                    |
| 71.     | 24731 <i>Calyptorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black Cockatoo)              |             | T                 |                                    |
| 72.     | 24733 <i>Calyptorhynchus baudinii</i> (Baudin's Cockatoo, White-tailed Long-billed Black Cockatoo)      |             | T                 |                                    |
| 73.     | 24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo, White-tailed Short-billed Black Cockatoo) |             | T                 |                                    |
| 74.     | 48400 <i>Calyptorhynchus</i> sp. (white-tailed black cockatoo)                                          |             | T                 |                                    |
| 75.     | 25575 <i>Charadrius leschenaultii</i> (Greater Sand Plover)                                             |             | T                 |                                    |
| 76.     | 24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)                                                |             |                   |                                    |
| 77.     | 24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)                                        |             |                   |                                    |
| 78.     | <i>Chroicocephalus novaehollandiae</i>                                                                  |             |                   |                                    |
| 79.     | 24432 <i>Chrysococcyx lucidus</i> subsp. <i>plagiosus</i> (Shining Bronze Cuckoo)                       |             |                   |                                    |
| 80.     | 24288 <i>Circus approximans</i> (Swamp Harrier)                                                         |             |                   |                                    |
| 81.     | 24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)                                                 |             |                   |                                    |
| 82.     | 25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)                                               |             |                   |                                    |
| 83.     | 24399 <i>Columba livia</i> (Domestic Pigeon)                                                            | Y           |                   |                                    |
| 84.     | 25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)                                       |             |                   |                                    |
| 85.     | 25592 <i>Corvus coronoides</i> (Australian Raven)                                                       |             |                   |                                    |
| 86.     | 24417 <i>Corvus coronoides</i> subsp. <i>perplexus</i> (Australian Raven)                               |             |                   |                                    |
| 87.     | 24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)                                                  |             |                   |                                    |
| 88.     | 25595 <i>Cracticus tibicen</i> (Australian Magpie)                                                      |             |                   |                                    |
| 89.     | 25596 <i>Cracticus torquatus</i> (Grey Butcherbird)                                                     |             |                   |                                    |
| 90.     | 24322 <i>Cygnus atratus</i> (Black Swan)                                                                |             |                   |                                    |
| 91.     | 30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)                                                  | Y           |                   |                                    |
| 92.     | 25618 <i>Diomedea exulans</i> (Wandering Albatross)                                                     |             | T                 |                                    |
| 93.     | 30836 <i>Diomedea exulans</i> subsp. <i>exulans</i> (Snowy Albatross)                                   |             | T                 |                                    |
| 94.     | <i>Egretta garzetta</i>                                                                                 |             |                   |                                    |
| 95.     | <i>Egretta novaehollandiae</i>                                                                          |             |                   |                                    |
| 96.     | <i>Elanus axillaris</i>                                                                                 |             |                   |                                    |
| 97.     | 47937 <i>Eileyornis melanops</i> (Black-fronted Dotterel)                                               |             |                   |                                    |
| 98.     | <i>Eolophus roseicapillus</i>                                                                           |             |                   |                                    |
| 99.     | 24651 <i>Eopsaltria australis</i> subsp. <i>griseogularis</i> (Western Yellow Robin)                    |             |                   |                                    |
| 100.    | 24652 <i>Eopsaltria georgiana</i> (White-breasted Robin)                                                |             |                   |                                    |

|      | Name ID | Species Name                                                              | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|------|---------|---------------------------------------------------------------------------|-------------|-------------------|------------------------------------|
| 101. | 24567   | <i>Epthianura albiglans</i> (White-fronted Chat)                          |             |                   |                                    |
| 102. | 24813   | <i>Eudyptes chrysocome</i> subsp. <i>filholi</i> (Rockhopper Penguin)     |             |                   | Y                                  |
| 103. | 25622   | <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)            |             |                   |                                    |
| 104. | 25623   | <i>Falco longipennis</i> (Australian Hobby)                               |             |                   |                                    |
| 105. | 25624   | <i>Falco peregrinus</i> (Peregrine Falcon)                                |             | S                 |                                    |
| 106. | 25727   | <i>Fulica atra</i> (Eurasian Coot)                                        |             |                   |                                    |
| 107. | 24761   | <i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)                |             |                   |                                    |
| 108. | 25729   | <i>Gallinula tenebrosa</i> (Dusky Moorhen)                                |             |                   |                                    |
| 109. | 24763   | <i>Gallinula tenebrosa</i> subsp. <i>tenebrosa</i> (Dusky Moorhen)        |             |                   |                                    |
| 110. | 25730   | <i>Gallirallus philippensis</i> (Buff-banded Rail)                        |             |                   |                                    |
| 111. | 25530   | <i>Gerygone fusca</i> (Western Gerygone)                                  |             |                   |                                    |
| 112. | 24443   | <i>Grallina cyanoleuca</i> (Magpie-lark)                                  |             |                   |                                    |
| 113. | 24487   | <i>Haematopus longirostris</i> (Pied Oystercatcher)                       |             |                   |                                    |
| 114. | 24293   | <i>Haliaeetus leucogaster</i> (White-bellied Sea-Eagle)                   |             |                   |                                    |
| 115. | 24295   | <i>Haliastur sphenurus</i> (Whistling Kite)                               |             |                   |                                    |
| 116. | 24689   | <i>Halobaena caerulea</i> (Blue Petrel)                                   |             |                   |                                    |
| 117. | 47965   | <i>Hieraaetus morphnoides</i> (Little Eagle)                              |             |                   |                                    |
| 118. | 25734   | <i>Himantopus himantopus</i> (Black-winged Stilt)                         |             |                   |                                    |
| 119. | 24491   | <i>Hirundo neoxena</i> (Welcome Swallow)                                  |             |                   |                                    |
| 120. | 48587   | <i>Hydroprogne caspia</i> (Caspian Tern)                                  |             | IA                |                                    |
| 121. | 25638   | <i>Larus pacificus</i> (Pacific Gull)                                     |             |                   |                                    |
| 122. | 25661   | <i>Lichmera indistincta</i> (Brown Honeyeater)                            |             |                   |                                    |
| 123. | 30932   | <i>Limosa lapponica</i> (Bar-tailed Godwit)                               |             | IA                |                                    |
| 124. | 25741   | <i>Limosa limosa</i> (Black-tailed Godwit)                                |             | IA                |                                    |
| 125. | 24690   | <i>Macronectes giganteus</i> (Southern Giant Petrel)                      |             | IA                |                                    |
| 126. | 24326   | <i>Malacorhynchus membranaceus</i> (Pink-eared Duck)                      |             |                   |                                    |
| 127. | 25654   | <i>Malurus splendens</i> (Splendid Fairy-wren)                            |             |                   |                                    |
| 128. | 25758   | <i>Megalurus gramineus</i> (Little Grassbird)                             |             |                   |                                    |
| 129. | 25663   | <i>Melithreptus brevirostris</i> (Brown-headed Honeyeater)                |             |                   |                                    |
| 130. | 24598   | <i>Merops ornatus</i> (Rainbow Bee-eater)                                 |             |                   |                                    |
| 131. |         | <i>Microcarbo melanoleucos</i>                                            |             |                   |                                    |
| 132. | 48008   | <i>Morus serrator</i> (Australasian Gannet)                               |             |                   |                                    |
| 133. | 24738   | <i>Neophema elegans</i> (Elegant Parrot)                                  |             |                   |                                    |
| 134. | 24739   | <i>Neophema petrophila</i> (Rock Parrot)                                  |             |                   |                                    |
| 135. | 24798   | <i>Numenius madagascariensis</i> (Eastern Curlew)                         |             | T                 |                                    |
| 136. | 25742   | <i>Numenius phaeopus</i> (Whimbrel)                                       |             | IA                |                                    |
| 137. | 25564   | <i>Nycticorax caledonicus</i> (Rufous Night Heron)                        |             |                   |                                    |
| 138. | 24497   | <i>Oceanites oceanicus</i> (Wilson's Storm-petrel)                        |             | IA                |                                    |
| 139. | 24407   | <i>Ocyphaps lophotes</i> (Crested Pigeon)                                 |             |                   |                                    |
| 140. | 41347   | <i>Onychoprion anaethetus</i> (Bridled Tern)                              |             | IA                |                                    |
| 141. | 24328   | <i>Oxyura australis</i> (Blue-billed Duck)                                |             | P4                |                                    |
| 142. | 25680   | <i>Pachycephala rufiventris</i> (Rufous Whistler)                         |             |                   |                                    |
| 143. | 24692   | <i>Pachyptila belcheri</i> (Slender-billed Prion)                         |             |                   |                                    |
| 144. | 24693   | <i>Pachyptila desolata</i> (Antarctic Prion)                              |             |                   |                                    |
| 145. | 25707   | <i>Pachyptila salvini</i> (Salvin's Prion)                                |             |                   |                                    |
| 146. | 48591   | <i>Pandion cristatus</i> (Osprey, Eastern Osprey)                         |             | IA                |                                    |
| 147. | 25681   | <i>Pardalotus punctatus</i> (Spotted Pardalote)                           |             |                   |                                    |
| 148. | 25682   | <i>Pardalotus striatus</i> (Striated Pardalote)                           |             |                   |                                    |
| 149. | 25687   | <i>Passer domesticus</i> (House Sparrow)                                  | Y           |                   |                                    |
| 150. | 24642   | <i>Passer montanus</i> (Eurasian Tree Sparrow)                            | Y           |                   |                                    |
| 151. | 24649   | <i>Pelecanoides urinatrix</i> subsp. <i>exsul</i> (Common Diving Petrel)  |             |                   |                                    |
| 152. | 24648   | <i>Pelecanus conspicillatus</i> (Australian Pelican)                      |             |                   |                                    |
| 153. | 48061   | <i>Petrochelidon nigricans</i> (Tree Martin)                              |             |                   |                                    |
| 154. | 48066   | <i>Petroica boodang</i> (Scarlet Robin)                                   |             |                   |                                    |
| 155. | 25697   | <i>Phalacrocorax carbo</i> (Great Cormorant)                              |             |                   |                                    |
| 156. | 24664   | <i>Phalacrocorax carbo</i> subsp. <i>novaeollandiae</i> (Great Cormorant) |             |                   |                                    |
| 157. | 24665   | <i>Phalacrocorax fuscescens</i> (Black-faced Cormorant)                   |             |                   |                                    |
| 158. | 25698   | <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)                 |             |                   |                                    |
| 159. | 24667   | <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)                |             |                   |                                    |
| 160. | 25699   | <i>Phalacrocorax varius</i> (Pied Cormorant)                              |             |                   |                                    |
| 161. | 24668   | <i>Phalacrocorax varius</i> subsp. <i>hypoleucos</i> (Pied Cormorant)     |             |                   |                                    |
| 162. | 24409   | <i>Phaps chalcoptera</i> (Common Bronzewing)                              |             |                   |                                    |
| 163. | 25587   | <i>Phaps elegans</i> (Brush Bronzewing)                                   |             |                   |                                    |
| 164. | 48071   | <i>Phylidonyris niger</i> (White-cheeked Honeyeater)                      |             |                   |                                    |
| 165. | 24596   | <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)              |             |                   |                                    |
| 166. | 24841   | <i>Platalea flavipes</i> (Yellow-billed Spoonbill)                        |             |                   |                                    |
| 167. | 24842   | <i>Platalea regia</i> (Royal Spoonbill)                                   |             |                   |                                    |
| 168. | 25720   | <i>Platycercus icterotis</i> (Western Rosella)                            |             |                   |                                    |
| 169. | 24747   | <i>Platycercus spurius</i> (Red-capped Parrot)                            |             |                   |                                    |
| 170. | 25721   | <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)     |             |                   |                                    |

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| 171. | 24843   | <i>Plegadis falcinellus</i> (Glossy Ibis)                                                   |             | IA                |                                    |
| 172. | 24382   | <i>Pluvialis fulva</i> (Pacific Golden Plover)                                              |             | IA                |                                    |
| 173. | 24383   | <i>Pluvialis squatarola</i> (Grey Plover)                                                   |             | IA                |                                    |
| 174. | 25703   | <i>Podargus strigoides</i> (Tawny Frogmouth)                                                |             |                   |                                    |
| 175. | 25704   | <i>Podiceps cristatus</i> (Great Crested Grebe)                                             |             |                   |                                    |
| 176. | 24681   | <i>Poliiocephalus poliocephalus</i> (Hoary-headed Grebe)                                    |             |                   |                                    |
| 177. | 25722   | <i>Polytelis anthopeplus</i> (Regent Parrot)                                                |             |                   |                                    |
| 178. | 25731   | <i>Porphyrio porphyrio</i> (Purple Swamphen)                                                |             |                   |                                    |
| 179. | 24771   | <i>Porzana tabuensis</i> (Spotless Crane)                                                   |             |                   |                                    |
| 180. | 24388   | <i>Psophodes nigrogularis</i> subsp. <i>nigrogularis</i> (Western Whipbird (western heath)) |             | T                 |                                    |
| 181. | 24702   | <i>Pterodroma brevirostris</i> (Kerguelen Petrel)                                           |             |                   |                                    |
| 182. | 24703   | <i>Pterodroma lessonii</i> (White-headed Petrel)                                            |             |                   |                                    |
| 183. |         | <i>Pterodroma macroptera</i> subsp. <i>macroptera</i>                                       |             |                   |                                    |
| 184. | 25711   | <i>Pterodroma mollis</i> (Soft-plumaged Petrel)                                             |             |                   |                                    |
| 185. | 24711   | <i>Puffinus assimilis</i> subsp. <i>assimilis</i> (Little Shearwater)                       |             |                   |                                    |
| 186. |         | <i>Purpureicephalus spurius</i>                                                             |             |                   |                                    |
| 187. | 24776   | <i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)                                    |             |                   |                                    |
| 188. | 48096   | <i>Rhipidura albiscapa</i> (Grey Fantail)                                                   |             |                   |                                    |
| 189. | 25614   | <i>Rhipidura leucophrys</i> (Willie Wagtail)                                                |             |                   |                                    |
| 190. | 25616   | <i>Rhipidura rufiventris</i> (Northern Fantail)                                             |             |                   |                                    |
| 191. | 25534   | <i>Sericornis frontalis</i> (White-browed Scrubwren)                                        |             |                   |                                    |
| 192. | 30948   | <i>Smicronis brevirostris</i> (Weebill)                                                     |             |                   |                                    |
| 193. | 24522   | <i>Sterna bergii</i> (Crested Tern)                                                         |             |                   |                                    |
| 194. | 25642   | <i>Sterna hirundo</i> (Common Tern)                                                         |             | IA                |                                    |
| 195. | 48594   | <i>Sternula nereis</i> (Fairy Tern)                                                         |             |                   |                                    |
| 196. | 24329   | <i>Stictonetta naevosa</i> (Freckled Duck)                                                  |             |                   |                                    |
| 197. | 25655   | <i>Stipiturus malachurus</i> (Southern Emu-wren)                                            |             |                   |                                    |
| 198. | 24554   | <i>Stipiturus malachurus</i> subsp. <i>westernensis</i> (Southern Emu-wren)                 |             |                   |                                    |
| 199. | 25597   | <i>Strepera versicolor</i> (Grey Currawong)                                                 |             |                   |                                    |
| 200. | 25589   | <i>Streptopelia chinensis</i> (Spotted Turtle-Dove)                                         | Y           |                   |                                    |
| 201. | 25590   | <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)                                     | Y           |                   |                                    |
| 202. | 25705   | <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)               |             |                   |                                    |
| 203. | 24331   | <i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)                             |             |                   |                                    |
| 204. | 34134   | <i>Thalassarche carteri</i> (Indian Yellow-nosed Albatross)                                 |             | T                 |                                    |
| 205. | 44607   | <i>Thalassarche melanophris</i> (Black-browed Albatross)                                    |             | T                 |                                    |
| 206. | 48597   | <i>Thalasseus bergii</i> (Crested Tern)                                                     |             | IA                |                                    |
| 207. | 48135   | <i>Thinornis rubricollis</i> (Hooded Plover, Hooded Dotterel)                               |             | P4                |                                    |
| 208. | 24845   | <i>Threskiornis spinicollis</i> (Straw-necked Ibis)                                         |             |                   |                                    |
| 209. | 25549   | <i>Todiramphus sanctus</i> (Sacred Kingfisher)                                              |             |                   |                                    |
| 210. | 25723   | <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)                                          |             |                   |                                    |
| 211. | 24755   | <i>Trichoglossus haematodus</i> subsp. <i>moluccanus</i> (Rainbow Lorikeet)                 | Y           |                   |                                    |
| 212. | 24803   | <i>Tringa brevipes</i> (Grey-tailed Tattler)                                                |             | P4                |                                    |
| 213. | 24806   | <i>Tringa glareola</i> (Wood Sandpiper)                                                     |             | IA                |                                    |
| 214. | 24808   | <i>Tringa nebularia</i> (Common Greenshank, greenshank)                                     |             | IA                |                                    |
| 215. | 24809   | <i>Tringa stagnatilis</i> (Marsh Sandpiper, little greenshank)                              |             | IA                |                                    |
| 216. | 24386   | <i>Vanellus tricolor</i> (Banded Lapwing)                                                   |             |                   |                                    |
| 217. | 41351   | <i>Xenus cinereus</i> (Terek Sandpiper)                                                     |             | IA                |                                    |
| 218. | 25765   | <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)                             |             |                   |                                    |

### Bryopsid (Moss)

|      |       |                                                         |   |  |  |
|------|-------|---------------------------------------------------------|---|--|--|
| 219. | 32315 | <i>Barbula calycina</i>                                 |   |  |  |
| 220. | 32338 | <i>Campylopus introflexus</i>                           | Y |  |  |
| 221. | 32345 | <i>Didymodon australasiae</i>                           |   |  |  |
| 222. | 32346 | <i>Didymodon torquatus</i>                              |   |  |  |
| 223. | 32367 | <i>Fissidens megalotis</i>                              |   |  |  |
| 224. | 32369 | <i>Fissidens tenellus</i>                               |   |  |  |
| 225. | 32380 | <i>Gemmabryum pachythecum</i>                           |   |  |  |
| 226. | 32480 | <i>Racopilum cuspidigerum</i> var. <i>convolutaceum</i> |   |  |  |
| 227. | 32424 | <i>Rosulabryum albolimbatum</i>                         |   |  |  |
| 228. | 44608 | <i>Rosulabryum billardieri</i>                          |   |  |  |
| 229. | 32437 | <i>Syntrichia antarctica</i>                            |   |  |  |
| 230. | 32486 | <i>Thuidium sparsum</i> var. <i>hastatum</i>            |   |  |  |

### Dicotyledon

|      |       |                                        |   |    |  |
|------|-------|----------------------------------------|---|----|--|
| 231. | 3207  | <i>Acacia alata</i> (Winged Wattle)    |   |    |  |
| 232. | 15466 | <i>Acacia applanata</i>                |   |    |  |
| 233. | 3282  | <i>Acacia cyclops</i> (Coastal Wattle) |   |    |  |
| 234. | 3339  | <i>Acacia flagelliformis</i>           |   | P4 |  |
| 235. | 3383  | <i>Acacia incurva</i>                  |   |    |  |
| 236. | 18217 | <i>Acacia iteaphylla</i>               | Y |    |  |
| 237. | 17861 | <i>Acacia longifolia</i>               | Y |    |  |

|      | Name ID | Species Name                                                                                | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|------|---------|---------------------------------------------------------------------------------------------|-------------|-------------------|------------------------------------|
| 238. | 3442    | <i>Acacia microbotrya</i> (Manna Wattle, Kalyang)                                           |             |                   |                                    |
| 239. | 17860   | <i>Acacia podalyriifolia</i>                                                                | Y           |                   |                                    |
| 240. | 3502    | <i>Acacia pulchella</i> (Prickly Moses)                                                     |             |                   |                                    |
| 241. | 15481   | <i>Acacia pulchella</i> var. <i>glaberrima</i>                                              |             |                   |                                    |
| 242. | 3527    | <i>Acacia saligna</i> (Orange Wattle, Kudjong)                                              |             |                   |                                    |
| 243. | 3537    | <i>Acacia semitrullata</i>                                                                  |             | P4                |                                    |
| 244. | 3557    | <i>Acacia stenoptera</i> (Narrow Winged Wattle)                                             |             |                   |                                    |
| 245. | 3576    | <i>Acacia tetragonocarpa</i>                                                                |             |                   |                                    |
| 246. | 1790    | <i>Adenanthos meisneri</i>                                                                  |             |                   |                                    |
| 247. | 1791    | <i>Adenanthos obovatus</i> (Basket Flower)                                                  |             |                   |                                    |
| 248. | 4582    | <i>Adriana quadripartita</i> (Bitter Bush)                                                  |             |                   |                                    |
| 249. | 48513   | <i>Aizoon pubescens</i>                                                                     | Y           |                   |                                    |
| 250. | 1732    | <i>Allocasuarina humilis</i> (Dwarf Sheoak)                                                 |             |                   |                                    |
| 251. | 6565    | <i>Alyxia buxifolia</i> (Dysentery Bush)                                                    |             |                   |                                    |
| 252. | 4585    | <i>Amperea ericoides</i>                                                                    |             |                   |                                    |
| 253. | 7833    | <i>Angianthus preissianus</i>                                                               |             |                   |                                    |
| 254. | 6949    | <i>Anthocercis littorea</i> (Yellow Tailflower)                                             |             |                   |                                    |
| 255. | 8595    | <i>Apium graveolens</i> (Wild Celery)                                                       | Y           |                   |                                    |
| 256. | 12040   | <i>Apium prostratum</i> subsp. <i>prostratum</i> var. <i>prostratum</i> (Sea Celery)        |             |                   |                                    |
| 257. | 17355   | <i>Araujia sericifera</i>                                                                   | Y           |                   |                                    |
| 258. | 7839    | <i>Arctotheca populifolia</i> (Dune Arctotheca, Beach Pumpkin, Coast Capeweed, Beach Daisy) | Y           |                   |                                    |
| 259. | 20350   | <i>Astartea affinis</i> (West-coast Astartea)                                               |             |                   |                                    |
| 260. | 45213   | <i>Astartea pulchella</i>                                                                   |             |                   |                                    |
| 261. | 7851    | <i>Asteridea pulverulenta</i> (Common Bristle Daisy)                                        |             |                   |                                    |
| 262. | 6323    | <i>Astroloma ciliatum</i> (Candle Cranberry)                                                |             |                   |                                    |
| 263. | 6334    | <i>Astroloma pallidum</i> (Kick Bush)                                                       |             |                   |                                    |
| 264. | 2452    | <i>Atriplex cinerea</i> (Grey Saltbush)                                                     |             |                   |                                    |
| 265. | 2460    | <i>Atriplex hortensis</i> (Garden Orache)                                                   | Y           |                   |                                    |
| 266. | 2463    | <i>Atriplex isatidea</i> (Coast Saltbush)                                                   |             |                   |                                    |
| 267. | 6828    | <i>Avicennia marina</i> (White Mangrove)                                                    |             |                   |                                    |
| 268. | 14555   | <i>Avicennia marina</i> subsp. <i>marina</i>                                                |             |                   |                                    |
| 269. | 1800    | <i>Banksia attenuata</i> (Slender Banksia, Piara)                                           |             |                   |                                    |
| 270. | 1822    | <i>Banksia ilicifolia</i> (Holly-leaved Banksia)                                            |             |                   |                                    |
| 271. | 1830    | <i>Banksia littoralis</i> (Swamp Banksia, Pungura)                                          |             |                   |                                    |
| 272. | 48868   | <i>Bellardia viscosa</i>                                                                    | Y           |                   |                                    |
| 273. | 7853    | <i>Berkheya rigida</i> (African Thistle, Hamelin Thistle)                                   | Y           |                   |                                    |
| 274. | 4417    | <i>Boronia dichotoma</i>                                                                    |             |                   |                                    |
| 275. | 4441    | <i>Boronia spathulata</i> (Boronia)                                                         |             |                   |                                    |
| 276. | 48782   | <i>Bossiaea angustifolia</i>                                                                |             |                   |                                    |
| 277. | 14396   | <i>Bossiaea aquifolium</i> subsp. <i>aquifolium</i>                                         |             |                   |                                    |
| 278. | 3710    | <i>Bossiaea eriocarpa</i> (Common Brown Pea)                                                |             |                   |                                    |
| 279. | 7878    | <i>Brachyscome iberidifolia</i>                                                             |             |                   |                                    |
| 280. | 2994    | <i>Brassica x juncea</i> (Indian Mustard)                                                   | Y           |                   |                                    |
| 281. | 3002    | <i>Cakile maritima</i> (Sea Rocket)                                                         | Y           |                   |                                    |
| 282. | 4717    | <i>Callitriche stagnalis</i> (Common Starwort)                                              | Y           |                   |                                    |
| 283. | 5415    | <i>Calothamnus lateralis</i>                                                                |             |                   |                                    |
| 284. | 35797   | <i>Calothamnus lateralis</i> var. <i>lateralis</i>                                          |             |                   |                                    |
| 285. | 16493   | <i>Calycopeplus oligandrus</i>                                                              |             |                   |                                    |
| 286. | 5458    | <i>Calytrix flavescens</i> (Summer Starflower)                                              |             |                   |                                    |
| 287. | 19713   | <i>Campsis radicans</i>                                                                     | Y           |                   |                                    |
| 288. | 11501   | <i>Cassytha glabella</i> forma <i>casuarinae</i>                                            |             |                   |                                    |
| 289. | 2957    | <i>Cassytha racemosa</i> (Dodder Laurel)                                                    |             |                   |                                    |
| 290. | 2483    | <i>Chenopodium album</i> (Fat Hen)                                                          | Y           |                   |                                    |
| 291. | 2490    | <i>Chenopodium glaucum</i> (Glaucous Goosefoot)                                             | Y           |                   |                                    |
| 292. | 2494    | <i>Chenopodium murale</i> (Nettle-leaf Goosefoot)                                           | Y           |                   |                                    |
| 293. | 8971    | <i>Chorizema cordatum</i>                                                                   |             |                   |                                    |
| 294. | 7935    | <i>Cichorium intybus</i> (Chicory)                                                          | Y           |                   |                                    |
| 295. | 4554    | <i>Comesperma flavum</i>                                                                    |             |                   |                                    |
| 296. | 4564    | <i>Comesperma virgatum</i> (Milkwort)                                                       |             |                   |                                    |
| 297. | 6348    | <i>Conostephium pendulum</i> (Pearl Flower)                                                 |             |                   |                                    |
| 298. | 19881   | <i>Convolvulus angustissimus</i> subsp. <i>angustissimus</i>                                |             |                   |                                    |
| 299. | 6611    | <i>Convolvulus arvensis</i> (Field Bindweed)                                                | Y           |                   |                                    |
| 300. | 20074   | <i>Conyza sumatrensis</i>                                                                   | Y           |                   |                                    |
| 301. | 2891    | <i>Corrigiola litoralis</i> (Strapwort)                                                     | Y           |                   |                                    |
| 302. | 7946    | <i>Cotula cotuloides</i> (Smooth Cotula)                                                    |             |                   |                                    |
| 303. | 7947    | <i>Cotula turbinata</i> (Funnel Weed)                                                       | Y           |                   |                                    |
| 304. | 42009   | <i>Craspedia</i> sp. <i>Yalgorup National Park</i> (G.J. Keighery 14449)                    |             |                   |                                    |
| 305. | 13354   | <i>Craspedia variabilis</i>                                                                 |             |                   |                                    |
| 306. | 3136    | <i>Crassula alata</i>                                                                       | Y           |                   |                                    |

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| 307.    | 3137 <i>Crassula colorata</i> (Dense Stonecrop)                               |             |                   |                                    |
| 308.    | 15706 <i>Crassula natans</i> var. <i>minus</i>                                | Y           |                   |                                    |
| 309.    | 29054 <i>Crepis foetida</i> subsp. <i>foetida</i> (Stinking Hawksbeard)       | Y           |                   |                                    |
| 310.    | 13484 <i>Cryptandra arbutiflora</i> var. <i>tubulosa</i>                      |             |                   |                                    |
| 311.    | 16411 <i>Cucumis</i> sp. <i>Bunbury</i> (G. Brayshaw s.n. 26/2/91)            | Y           |                   | Y                                  |
| 312.    | 13732 <i>Cuscuta campestris</i> (Golden dodder)                               | Y           |                   |                                    |
| 313.    | 6663 <i>Cuscuta epithymum</i> (Lesser Dodder, Greater Dodder)                 | Y           |                   |                                    |
| 314.    | 7428 <i>Dampiera coronata</i> (Wedge-leaved Dampiera)                         |             |                   |                                    |
| 315.    | 7454 <i>Dampiera linearis</i> (Common Dampiera)                               |             |                   |                                    |
| 316.    | 7462 <i>Dampiera pedunculata</i>                                              |             |                   |                                    |
| 317.    | 3793 <i>Daviesia angulata</i>                                                 |             |                   |                                    |
| 318.    | 19747 <i>Daviesia decurrens</i> subsp. <i>decurrens</i>                       |             |                   |                                    |
| 319.    | 3832 <i>Daviesia physodes</i>                                                 |             |                   |                                    |
| 320.    | 3835 <i>Daviesia preissii</i>                                                 |             |                   |                                    |
| 321.    | 4454 <i>Diplolaena dampieri</i> (Southern Diplolaena)                         |             |                   |                                    |
| 322.    | 3012 <i>Diplotaxis tenuifolia</i> (Sand Rocket)                               | Y           |                   |                                    |
| 323.    | 3867 <i>Dipogon lignosus</i> (Dolichos Pea)                                   | Y           |                   |                                    |
| 324.    | 7961 <i>Dittrichia graveolens</i> (Stinkwort)                                 | Y           |                   |                                    |
| 325.    | 48751 <i>Drosera drummondii</i>                                               |             |                   |                                    |
| 326.    | 3097 <i>Drosera gigantea</i> (Giant Sundew)                                   |             |                   |                                    |
| 327.    | 48769 <i>Drosera indumenta</i>                                                |             |                   |                                    |
| 328.    | 3118 <i>Drosera pallida</i> (Pale Rainbow)                                    |             |                   |                                    |
| 329.    | 8911 <i>Drosera rosulata</i>                                                  |             |                   |                                    |
| 330.    | 3131 <i>Drosera stolonifera</i> (Leafy Sundew)                                |             |                   |                                    |
| 331.    | 13205 <i>Drosera tubaestylis</i>                                              |             |                   |                                    |
| 332.    | 33500 <i>Dysphania ambrosioides</i> (Mexican Tea)                             | Y           |                   |                                    |
| 333.    | 33517 <i>Dysphania multifida</i> (Scented Goosefoot)                          | Y           |                   |                                    |
| 334.    | 33480 <i>Dysphania pumilio</i> (Clammy Goosefoot)                             |             |                   |                                    |
| 335.    | 17175 <i>Eremophila glabra</i> subsp. <i>albicans</i>                         |             |                   |                                    |
| 336.    | 4336 <i>Erodium moschatum</i> (Musky Crowfoot)                                | Y           |                   |                                    |
| 337.    | 5659 <i>Eucalyptus gomphocephala</i> (Tuart, Duart)                           |             |                   |                                    |
| 338.    | 5708 <i>Eucalyptus marginata</i> (Jarrah, Djara)                              |             |                   |                                    |
| 339.    | 13512 <i>Eucalyptus rudis</i> subsp. <i>cratyantha</i>                        |             | P4                |                                    |
| 340.    | 15137 <i>Euchiton sphaericus</i>                                              |             |                   |                                    |
| 341.    | 4636 <i>Euphorbia paralias</i> (Sea Spurge)                                   | Y           |                   |                                    |
| 342.    | 3880 <i>Eutaxia virgata</i>                                                   |             |                   |                                    |
| 343.    | 10765 <i>Exocarpos sparteus</i> (Broom Ballart, Djuk)                         |             |                   |                                    |
| 344.    | 6221 <i>Foeniculum vulgare</i> (Fennel)                                       | Y           |                   |                                    |
| 345.    | 5209 <i>Frankenia pauciflora</i> (Seaheath)                                   |             |                   |                                    |
| 346.    | 2969 <i>Fumaria capreolata</i> (Whiteflower Fumitory)                         | Y           |                   |                                    |
| 347.    | 20475 <i>Gastrolobium capitatum</i>                                           |             |                   |                                    |
| 348.    | 19190 <i>Gastrolobium cuneatum</i>                                            |             |                   |                                    |
| 349.    | 20473 <i>Gastrolobium ebracteolatum</i>                                       |             |                   |                                    |
| 350.    | 20512 <i>Gastrolobium praemorsum</i>                                          |             |                   |                                    |
| 351.    | 16311 <i>Gazania linearis</i>                                                 | Y           |                   |                                    |
| 352.    | 3936 <i>Genista linifolia</i> (Flaxleaf Broom)                                | Y           |                   |                                    |
| 353.    | 46134 <i>Glebionis segetum</i>                                                | Y           |                   |                                    |
| 354.    | 3956 <i>Gompholobium shuttleworthii</i>                                       |             |                   |                                    |
| 355.    | 3957 <i>Gompholobium tomentosum</i> (Hairy Yellow Pea)                        |             |                   |                                    |
| 356.    | 7505 <i>Goodenia eatoniana</i>                                                |             |                   |                                    |
| 357.    | 12551 <i>Goodenia micrantha</i>                                               |             |                   |                                    |
| 358.    | 19286 <i>Goodenia pulchella</i> subsp. <i>Coastal Plain A</i> (M. Hislop 634) |             |                   |                                    |
| 359.    | 14282 <i>Gratiola pubescens</i>                                               |             |                   |                                    |
| 360.    | 2066 <i>Grevillea pilulifera</i> (Woolly-flowered Grevillea)                  |             |                   |                                    |
| 361.    | 2122 <i>Grevillea wilsonii</i> (Native Fuchsia)                               |             |                   |                                    |
| 362.    | 2216 <i>Hakea varia</i> (Variable-leaved Hakea)                               |             |                   |                                    |
| 363.    | 3961 <i>Hardenbergia comptoniana</i> (Native Wisteria)                        |             |                   |                                    |
| 364.    | 8008 <i>Helianthus annuus</i> (Sunflower, Common Sunflower)                   | Y           |                   |                                    |
| 365.    | 12016 <i>Helianthus debilis</i> subsp. <i>cucumerifolius</i>                  | Y           |                   |                                    |
| 366.    | 6839 <i>Hemiantra pungens</i> (Snakebush)                                     |             |                   |                                    |
| 367.    | 41020 <i>Hemiphora bartlingii</i> (Woolly Dragon)                             |             |                   |                                    |
| 368.    | 5109 <i>Hibbertia amplexicaulis</i>                                           |             |                   |                                    |
| 369.    | 5117 <i>Hibbertia cuneiformis</i> (Cutleaf Hibbertia)                         |             |                   |                                    |
| 370.    | 20051 <i>Hibbertia diamesogenos</i>                                           |             |                   |                                    |
| 371.    | 5135 <i>Hibbertia hypericoides</i> (Yellow Buttercups)                        |             |                   |                                    |
| 372.    | 45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>                |             |                   |                                    |
| 373.    | 5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)                        |             |                   |                                    |
| 374.    | 5172 <i>Hibbertia stellaris</i> (Orange Stars)                                |             |                   |                                    |
| 375.    | 5173 <i>Hibbertia subvaginata</i>                                             |             |                   |                                    |
| 376.    | 5176 <i>Hibbertia vaginata</i>                                                |             |                   |                                    |

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| 377.    | 6222 <i>Homalosciadium homalocarpum</i>                                                       |             |                   |                                    |
| 378.    | 3968 <i>Hovea trisperma</i> (Common Hovea)                                                    |             |                   |                                    |
| 379.    | 5216 <i>Hybanthus calycinus</i> (Wild Violet)                                                 |             |                   |                                    |
| 380.    | 5221 <i>Hybanthus floribundus</i>                                                             |             |                   |                                    |
| 381.    | 12007 <i>Hybanthus floribundus</i> subsp. <i>floribundus</i>                                  |             |                   |                                    |
| 382.    | 6223 <i>Hydrocotyle alata</i>                                                                 |             |                   |                                    |
| 383.    | 6224 <i>Hydrocotyle blepharocarpa</i>                                                         |             |                   |                                    |
| 384.    | 6225 <i>Hydrocotyle bonariensis</i>                                                           | Y           |                   |                                    |
| 385.    | 11546 <i>Hydrocotyle pilifera</i> var. <i>glabrata</i>                                        |             |                   |                                    |
| 386.    | 5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)                                  |             |                   |                                    |
| 387.    | 35070 <i>Hypocalymma angustifolium</i> subsp. <i>Swan Coastal Plain</i> (G.J. Keighery 16777) |             |                   |                                    |
| 388.    | 5825 <i>Hypocalymma robustum</i> (Swan River Myrtle)                                          |             |                   |                                    |
| 389.    | 8086 <i>Hypochaeris glabra</i> (Smooth Catsear)                                               | Y           |                   |                                    |
| 390.    | 9352 <i>Hypochaeris radicata</i> (Flat Weed, Cats-ear)                                        | Y           |                   |                                    |
| 391.    | 6630 <i>Ipomoea indica</i> (Morning Glory)                                                    | Y           |                   |                                    |
| 392.    | 4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)                                             |             |                   |                                    |
| 393.    | 4017 <i>Jacksonia horrida</i>                                                                 |             |                   |                                    |
| 394.    | 4028 <i>Jacksonia spinosa</i>                                                                 |             |                   |                                    |
| 395.    | 4044 <i>Kennedia prostrata</i> (Scarlet Runner)                                               |             |                   |                                    |
| 396.    | 5832 <i>Kunzea ericifolia</i> (Spearwood, Pondil)                                             |             |                   |                                    |
| 397.    | 15498 <i>Kunzea glabrescens</i> (Spearwood)                                                   |             |                   |                                    |
| 398.    | 17461 <i>Kunzea micrantha</i> subsp. <i>micrantha</i>                                         |             |                   |                                    |
| 399.    | 3669 <i>Labichea punctata</i> (Lance-leaved Cassia)                                           |             |                   |                                    |
| 400.    | 8096 <i>Lactuca serriola</i> (Prickly Lettuce)                                                | Y           |                   |                                    |
| 401.    | 5038 <i>Lasiopetalum membranaceum</i>                                                         |             | P3                |                                    |
| 402.    | 4047 <i>Lathyrus tingitanus</i> (Tangier Pea)                                                 | Y           |                   |                                    |
| 403.    | 4958 <i>Lawrenia spicata</i>                                                                  |             |                   |                                    |
| 404.    | 7572 <i>Lechenaultia expansa</i>                                                              |             |                   |                                    |
| 405.    | 7574 <i>Lechenaultia floribunda</i> (Free-flowering Leschenaultia)                            |             |                   |                                    |
| 406.    | 6880 <i>Leonotis leonurus</i> (Lion's Ear)                                                    | Y           |                   |                                    |
| 407.    | 19989 <i>Lepidium didymum</i>                                                                 | Y           |                   |                                    |
| 408.    | 16449 <i>Leucophyta brownii</i>                                                               |             |                   |                                    |
| 409.    | 6374 <i>Leucopogon conostephioides</i>                                                        |             |                   |                                    |
| 410.    | 6425 <i>Leucopogon oxycedrus</i>                                                              |             |                   |                                    |
| 411.    | 6428 <i>Leucopogon pendulus</i>                                                               |             |                   |                                    |
| 412.    | 6434 <i>Leucopogon polymorphus</i>                                                            |             |                   |                                    |
| 413.    | 6436 <i>Leucopogon propinquus</i>                                                             |             |                   |                                    |
| 414.    | 6440 <i>Leucopogon racemosus</i>                                                              |             |                   |                                    |
| 415.    | 7677 <i>Levenhookia stipitata</i> (Common Stylewort)                                          |             |                   |                                    |
| 416.    | 4363 <i>Linum trigynum</i> (French Flax)                                                      | Y           |                   |                                    |
| 417.    | 36160 <i>Liparophyllum capitatum</i>                                                          |             |                   |                                    |
| 418.    | 36180 <i>Liparophyllum latifolium</i>                                                         |             |                   |                                    |
| 419.    | 9289 <i>Lobelia anceps</i> (Angled Lobelia)                                                   |             |                   |                                    |
| 420.    | 7408 <i>Lobelia tenuior</i> (Slender Lobelia)                                                 |             |                   |                                    |
| 421.    | 3048 <i>Lobularia maritima</i> (Sweet Alyssum)                                                | Y           |                   |                                    |
| 422.    | 4059 <i>Lotus angustissimus</i> (Narrowleaf Trefoil)                                          | Y           |                   |                                    |
| 423.    | 8564 <i>Lotus subbiflorus</i>                                                                 | Y           |                   |                                    |
| 424.    | 4065 <i>Lupinus angustifolius</i> (Narrowleaf Lupin)                                          | Y           |                   |                                    |
| 425.    | 4067 <i>Lupinus luteus</i> (Yellow Lupin)                                                     | Y           |                   |                                    |
| 426.    | 36375 <i>Lysimachia arvensis</i> (Pimpernel)                                                  | Y           |                   |                                    |
| 427.    | 34736 <i>Lysinema pentapetalum</i>                                                            |             |                   |                                    |
| 428.    | 5281 <i>Lythrum hyssopifolia</i> (Lesser Loosestrife)                                         | Y           |                   |                                    |
| 429.    | 36480 <i>Malva arborea</i> (Tree Mallow)                                                      | Y           |                   |                                    |
| 430.    | 4075 <i>Medicago littoralis</i> (Strand Medic)                                                | Y           |                   |                                    |
| 431.    | 4079 <i>Medicago polymorpha</i> (Burr Medic)                                                  | Y           |                   |                                    |
| 432.    | 13273 <i>Melaleuca incana</i> subsp. <i>incana</i>                                            |             |                   |                                    |
| 433.    | 5926 <i>Melaleuca lateritia</i> (Robin Redbreast Bush)                                        |             |                   |                                    |
| 434.    | 5938 <i>Melaleuca microphylla</i>                                                             |             |                   |                                    |
| 435.    | 20297 <i>Melaleuca osullivanii</i>                                                            |             |                   |                                    |
| 436.    | 5946 <i>Melaleuca pauciflora</i>                                                              |             |                   |                                    |
| 437.    | 5952 <i>Melaleuca preissiana</i> (Moonah)                                                     |             |                   |                                    |
| 438.    | 48990 <i>Melaleuca quinquenervia</i>                                                          | Y           |                   |                                    |
| 439.    | 5959 <i>Melaleuca raphiophylla</i> (Swamp Paperbark)                                          |             |                   |                                    |
| 440.    | 18598 <i>Melaleuca systema</i>                                                                |             |                   |                                    |
| 441.    | 5978 <i>Melaleuca teretifolia</i> (Banbar)                                                    |             |                   |                                    |
| 442.    | 5980 <i>Melaleuca thymoides</i>                                                               |             |                   |                                    |
| 443.    | 4785 <i>Melianthus major</i>                                                                  | Y           |                   |                                    |
| 444.    | 4085 <i>Melilotus indicus</i>                                                                 | Y           |                   |                                    |
| 445.    | 19827 <i>Melilotus siculus</i>                                                                | Y           |                   |                                    |
| 446.    | 29418 <i>Monoculus monstrosus</i>                                                             | Y           |                   |                                    |

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| 447. | 37440   | <i>Monopsis debilis</i> var. <i>depressa</i>                              | Y           |                   |                                    |
| 448. | 4666    | <i>Monotaxis occidentalis</i>                                             |             |                   |                                    |
| 449. | 16896   | <i>Muehlenbeckia complexa</i>                                             | Y           |                   | Y                                  |
| 450. | 7289    | <i>Myoporum caprarioides</i> (Slender Myoporum)                           |             |                   |                                    |
| 451. | 6189    | <i>Myriophyllum crispatum</i>                                             |             |                   |                                    |
| 452. | 2401    | <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)                         |             |                   |                                    |
| 453. | 16390   | <i>Oenothera drummondii</i> subsp. <i>drummondii</i>                      | Y           |                   |                                    |
| 454. | 6140    | <i>Oenothera mollissima</i>                                               | Y           |                   |                                    |
| 455. | 8127    | <i>Olearia axillaris</i> (Coastal Daisybush)                              |             |                   |                                    |
| 456. | 8133    | <i>Olearia elaeophila</i>                                                 |             |                   |                                    |
| 457. | 46316   | <i>Orianthera serpyllifolia</i> subsp. <i>angustifolia</i>                |             |                   |                                    |
| 458. | 36177   | <i>Ornduffia albiflora</i>                                                |             |                   |                                    |
| 459. | 36181   | <i>Ornduffia parnassifolia</i>                                            |             |                   |                                    |
| 460. | 4113    | <i>Ornithopus compressus</i> (Yellow Serradella)                          | Y           |                   |                                    |
| 461. | 7122    | <i>Orobanche minor</i> (Lesser Broomrape)                                 | Y           |                   |                                    |
| 462. | 5225    | <i>Passiflora filamentosa</i>                                             | Y           |                   |                                    |
| 463. | 6244    | <i>Pastinaca sativa</i> (Wild Parsnip)                                    | Y           |                   |                                    |
| 464. | 4343    | <i>Pelargonium capitatum</i> (Rose Pelargonium)                           | Y           |                   |                                    |
| 465. | 4346    | <i>Pelargonium littorale</i>                                              |             |                   |                                    |
| 466. | 6006    | <i>Pericalymma ellipticum</i> (Swamp Teatree)                             |             |                   |                                    |
| 467. | 16477   | <i>Pericalymma ellipticum</i> var. <i>ellipticum</i>                      |             |                   |                                    |
| 468. | 11052   | <i>Persicaria prostrata</i>                                               |             |                   |                                    |
| 469. | 2299    | <i>Petrophile linearis</i> (Pixie Mops)                                   |             |                   |                                    |
| 470. | 19825   | <i>Petrorhagia dubia</i>                                                  | Y           |                   |                                    |
| 471. | 18529   | <i>Philotheca spicata</i> (Pepper and Salt)                               |             |                   |                                    |
| 472. | 16825   | <i>Phyllangium divergens</i>                                              |             |                   |                                    |
| 473. | 4675    | <i>Phyllanthus calycinus</i> (False Boronia)                              |             |                   |                                    |
| 474. | 31275   | <i>Physalis hederifolia</i> (Sticky Cape Gooseberry)                      | Y           |                   | Y                                  |
| 475. | 2408    | <i>Pilostyles hamiltonii</i>                                              |             |                   |                                    |
| 476. | 11402   | <i>Pimelea imbricata</i> var. <i>piligera</i>                             |             |                   |                                    |
| 477. | 5252    | <i>Pimelea lanata</i>                                                     |             |                   |                                    |
| 478. | 18117   | <i>Pimelea rosea</i> subsp. <i>rosea</i>                                  |             |                   |                                    |
| 479. | 42281   | <i>Pithocarpa cordata</i>                                                 |             |                   |                                    |
| 480. | 7303    | <i>Plantago lanceolata</i> (Ribwort Plantain)                             | Y           |                   |                                    |
| 481. | 6249    | <i>Platysace compressa</i> (Tapeworm Plant)                               |             |                   |                                    |
| 482. | 6253    | <i>Platysace filiformis</i>                                               |             |                   |                                    |
| 483. | 11132   | <i>Platysace ramosissima</i>                                              |             | P3                |                                    |
| 484. | 4524    | <i>Platytheca galioides</i>                                               |             |                   |                                    |
| 485. | 8179    | <i>Podolepis nutans</i> (Nodding Podolepis)                               |             |                   |                                    |
| 486. | 8188    | <i>Pogonolepis stricta</i>                                                |             |                   |                                    |
| 487. | 2905    | <i>Polycarpon tetraphyllum</i> (Fourleaf Allseed)                         | Y           |                   |                                    |
| 488. | 15856   | <i>Ptilotus sericostachyus</i> subsp. <i>sericostachyus</i>               |             |                   |                                    |
| 489. | 4181    | <i>Pultenaea reticulata</i>                                               |             |                   |                                    |
| 490. | 4183    | <i>Pultenaea skinneri</i> (Skinner's Pea)                                 |             | P4                |                                    |
| 491. | 19183   | <i>Retama raetam</i>                                                      | Y           |                   |                                    |
| 492. | 11341   | <i>Rhagodia baccata</i> subsp. <i>baccata</i>                             |             |                   |                                    |
| 493. | 4705    | <i>Ricinus communis</i> (Castor Oil Plant)                                | Y           |                   |                                    |
| 494. | 3066    | <i>Rorippa nasturtium-aquaticum</i> (Watercress)                          | Y           |                   |                                    |
| 495. | 2433    | <i>Rumex crispus</i> (Curled Dock)                                        | Y           |                   |                                    |
| 496. | 2443    | <i>Rumex vesicarius</i> (Ruby Dock)                                       | Y           |                   |                                    |
| 497. | 2908    | <i>Sagina maritima</i>                                                    | Y           |                   |                                    |
| 498. | 48433   | <i>Salicornia blackiana</i>                                               |             |                   |                                    |
| 499. | 6483    | <i>Samolus junceus</i>                                                    |             |                   |                                    |
| 500. | 6484    | <i>Samolus repens</i> (Creeping Brookweed)                                |             |                   |                                    |
| 501. | 14107   | <i>Samolus repens</i> var. <i>paucifolius</i>                             |             |                   |                                    |
| 502. | 7602    | <i>Scaevola calliptera</i>                                                |             |                   |                                    |
| 503. | 7619    | <i>Scaevola lanceolata</i> (Long-leaved Scaevola)                         |             |                   |                                    |
| 504. | 41660   | <i>Schenkia australis</i>                                                 |             |                   |                                    |
| 505. | 48834   | <i>Schinus terebinthifolia</i>                                            | Y           |                   |                                    |
| 506. | 6263    | <i>Schoenolaena juncea</i>                                                |             |                   |                                    |
| 507. | 20663   | <i>Senecio multicaulis</i> subsp. <i>multicaulis</i>                      |             |                   |                                    |
| 508. | 20161   | <i>Senecio pinnatifolius</i>                                              |             |                   |                                    |
| 509. | 8225    | <i>Siloxerus humifusus</i> (Procumbent Siloxerus)                         |             |                   |                                    |
| 510. | 8227    | <i>Silybum marianum</i> (Variegated Thistle)                              | Y           |                   |                                    |
| 511. | 7005    | <i>Solanum elaeagnifolium</i> (White Horse Nettle, Silverleaf Nightshade) | Y           |                   |                                    |
| 512. | 7022    | <i>Solanum nigrum</i> (Black Berry Nightshade)                            | Y           |                   |                                    |
| 513. | 1765    | <i>Soleirolia soleiroliae</i> (Babys Tears)                               | Y           |                   |                                    |
| 514. | 10920   | <i>Soliva sessilis</i> (Jo-jo, Onehunga Weed)                             | Y           |                   |                                    |
| 515. | 8231    | <i>Sonchus oleraceus</i> (Common Sowthistle)                              | Y           |                   |                                    |
| 516. | 4828    | <i>Spyridium globulosum</i> (Basket Bush)                                 |             |                   |                                    |

|      | Name ID | Species Name                                                  | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|------|---------|---------------------------------------------------------------|-------------|-------------------|------------------------------------|
| 517. | 6930    | <i>Stachys arvensis</i> (Staggerweed)                         | Y           |                   |                                    |
| 518. | 4733    | <i>Stackhousia monogyna</i>                                   |             |                   |                                    |
| 519. | 2918    | <i>Stellaria media</i> (Chickweed)                            | Y           |                   |                                    |
| 520. | 2316    | <i>Stirlingia latifolia</i> (Blueboy)                         |             |                   |                                    |
| 521. | 30278   | <i>Stylidium androsaceum</i>                                  |             |                   |                                    |
| 522. | 7693    | <i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)     |             |                   |                                    |
| 523. | 7696    | <i>Stylidium calcaratum</i> (Book Triggerplant)               |             |                   |                                    |
| 524. | 7713    | <i>Stylidium dichotomum</i> (Pins-and-needles)                |             |                   |                                    |
| 525. | 7745    | <i>Stylidium junceum</i> (Reed Triggerplant)                  |             |                   |                                    |
| 526. | 7774    | <i>Stylidium piliferum</i> (Common Butterfly Triggerplant)    |             |                   |                                    |
| 527. | 7798    | <i>Stylidium schoenoides</i> (Cow Kicks)                      |             |                   |                                    |
| 528. |         | <i>Stylidium</i> sp.                                          |             |                   |                                    |
| 529. | 7806    | <i>Stylidium utricularioides</i> (Pink Fan Triggerplant)      |             |                   |                                    |
| 530. | 6476    | <i>Styphelia tenuiflora</i> (Common Pinheath)                 |             |                   |                                    |
| 531. | 2639    | <i>Suaeda australis</i> (Seablite)                            |             |                   |                                    |
| 532. | 45613   | <i>Taraxacum khatoonae</i>                                    | Y           |                   |                                    |
| 533. | 33236   | <i>Tecticornia halocnemoides</i> (Shrubby Samphire)           |             |                   |                                    |
| 534. | 33319   | <i>Tecticornia indica</i> subsp. <i>bidens</i>                |             |                   |                                    |
| 535. | 4535    | <i>Tetradlea hirsuta</i> (Black Eyed Susan)                   |             |                   |                                    |
| 536. | 48341   | <i>Tetradlea hirsuta</i> subsp. <i>viminea</i>                |             |                   |                                    |
| 537. | 5084    | <i>Thomasia grandiflora</i> (Large Flowered Thomasia)         |             |                   |                                    |
| 538. | 6280    | <i>Trachymene pilosa</i> (Native Parsnip)                     |             |                   |                                    |
| 539. | 4291    | <i>Trifolium arvense</i> (Hare's Foot Clover)                 | Y           |                   |                                    |
| 540. | 17763   | <i>Trifolium campestre</i> var. <i>campestre</i> (Hop Clover) | Y           |                   |                                    |
| 541. | 4293    | <i>Trifolium cernuum</i> (Drooping Flower Clover)             | Y           |                   |                                    |
| 542. | 17759   | <i>Trifolium fragiferum</i> var. <i>fragiferum</i>            | Y           |                   |                                    |
| 543. | 4298    | <i>Trifolium hirtum</i> (Rose Clover)                         | Y           |                   |                                    |
| 544. |         | <i>Trifolium</i> sp.                                          |             |                   |                                    |
| 545. | 4313    | <i>Trifolium subterraneum</i> (Subterranean Clover)           | Y           |                   |                                    |
| 546. | 4737    | <i>Tripterococcus brunonis</i> (Winged Stackhousia)           |             |                   |                                    |
| 547. | 1139    | <i>Triphurium bibracteata</i>                                 |             |                   |                                    |
| 548. | 8255    | <i>Ursinia anthemoides</i> (Ursinia)                          | Y           |                   |                                    |
| 549. | 7145    | <i>Utricularia menziesii</i> (Redcoats)                       |             |                   |                                    |
| 550. | 8257    | <i>Vellereophyton dealbatum</i> (White Cudweed)               | Y           |                   |                                    |
| 551. | 7107    | <i>Verbascum virgatum</i> (Twiggy Mullein)                    | Y           |                   |                                    |
| 552. | 20120   | <i>Verbena litoralis</i>                                      | Y           |                   | Y                                  |
| 553. | 19511   | <i>Verbena officinalis</i>                                    | Y           |                   |                                    |
| 554. | 7108    | <i>Veronica arvensis</i> (Wall Speedwell)                     | Y           |                   |                                    |
| 555. | 12392   | <i>Verticordia attenuata</i>                                  |             | P3                |                                    |
| 556. | 4320    | <i>Vicia hirsuta</i> (Hairy Vetch)                            | Y           |                   |                                    |
| 557. | 4322    | <i>Vicia sativa</i> (Common Vetch)                            | Y           |                   |                                    |
| 558. | 11474   | <i>Vicia sativa</i> subsp. <i>nigra</i>                       | Y           |                   |                                    |
| 559. | 7389    | <i>Wahlenbergia preissii</i>                                  |             |                   |                                    |
| 560. | 8282    | <i>Waitzia suaveolens</i> (Fragrant Waitzia)                  |             |                   |                                    |
| 561. | 6658    | <i>Wilsonia backhousei</i> (Narrow-leaf Wilsonia)             |             |                   |                                    |
| 562. | 6659    | <i>Wilsonia humilis</i> (Silky Wilsonia)                      |             |                   |                                    |
| 563. | 6289    | <i>Xanthosia huegelii</i>                                     |             |                   |                                    |
| 564. | 2331    | <i>Xylomelum occidentale</i> (Woody Pear, Djandin)            |             |                   |                                    |

## Fish

|      |                                  |
|------|----------------------------------|
| 565. | <i>Acentrogobius bifrenatus</i>  |
| 566. | <i>Aetapcus maculatus</i>        |
| 567. | <i>Aldrichetta forsteri</i>      |
| 568. | <i>Anoplocapros lenticularis</i> |
| 569. | <i>Aracana aurita</i>            |
| 570. | <i>Arenigobius bifrenatus</i>    |
| 571. | <i>Arripis truttacea</i>         |
| 572. | <i>Asymbolus submaculatus</i>    |
| 573. | <i>Atherinosoma elongata</i>     |
| 574. | <i>Aulohalaelurus labiosus</i>   |
| 575. | <i>Auxis thazard</i>             |
| 576. | <i>Carcharhinus</i> sp.          |
| 577. | <i>Chelidonichthys kumu</i>      |
| 578. | <i>Cleidopus gloriamaris</i>     |
| 579. | <i>Dactylophora nigricans</i>    |
| 580. | <i>Diodon nichthemerus</i>       |
| 581. | <i>Diodon</i> sp.                |
| 582. | <i>Echeneis naucrates</i>        |
| 583. | <i>Eubalichthys</i> sp.          |
| 584. | <i>Euleptorhamphus viridis</i>   |
| 585. | <i>Furgaleus macki</i>           |

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|---------|--------------------------------------------------|-------------|-------------------|------------------------------------|
| 586.    | <i>Galeorhinus galeus</i>                        |             |                   |                                    |
| 587.    | 34030 <i>Geotria australis</i> (Pouched Lamprey) |             | P3                |                                    |
| 588.    | <i>Gonorynchus greyi</i>                         |             |                   |                                    |
| 589.    | <i>Gymnapistes marmoratus</i>                    |             |                   |                                    |
| 590.    | <i>Gymnothorax woodwardi</i>                     |             |                   |                                    |
| 591.    | <i>Hemipristis elongata</i>                      |             |                   |                                    |
| 592.    | <i>Heterodontus portusjacksoni</i>               |             |                   |                                    |
| 593.    | <i>Hippocampus</i> sp.                           |             |                   |                                    |
| 594.    | <i>Hyperlophus vittatus</i>                      |             |                   |                                    |
| 595.    | <i>Hyporhamphus melanochir</i>                   |             |                   |                                    |
| 596.    | <i>Ichthyoscopus barbatus</i>                    |             |                   |                                    |
| 597.    | <i>Lagocephalus sceleratus</i>                   |             |                   |                                    |
| 598.    | <i>Makaira indica</i>                            |             |                   |                                    |
| 599.    | <i>Meuschenia freycineti</i>                     |             |                   |                                    |
| 600.    | <i>Mugil cephalus</i>                            |             |                   |                                    |
| 601.    | <i>Myliobatis</i> sp.                            |             |                   |                                    |
| 602.    | <i>Nelusetta ayraudi</i>                         |             |                   |                                    |
| 603.    | <i>Omegophora armilla</i>                        |             |                   |                                    |
| 604.    | <i>Ophisurus serpens</i>                         |             |                   |                                    |
| 605.    | <i>Ophthalmolepis lineolatus</i>                 |             |                   |                                    |
| 606.    | <i>Parazanclostius hutchinsi</i>                 |             |                   |                                    |
| 607.    | <i>Phyllopteryx taeniolatus</i>                  |             |                   |                                    |
| 608.    | <i>Platycephalus speculator</i>                  |             |                   |                                    |
| 609.    | <i>Prionace glauca</i>                           |             |                   |                                    |
| 610.    | <i>Pristiophorus nudipinnis</i>                  |             |                   |                                    |
| 611.    | <i>Pseudogobius olorum</i>                       |             |                   |                                    |
| 612.    | <i>Pterygotrigla polyommata</i>                  |             |                   |                                    |
| 613.    | <i>Scomber australasicus</i>                     |             |                   |                                    |
| 614.    | <i>Sillago fraseri</i> (invalid)                 |             |                   | Y                                  |
| 615.    | <i>Sphyræna obtusata</i>                         |             |                   |                                    |
| 616.    | <i>Squalus megalops</i>                          |             |                   |                                    |
| 617.    | <i>Squatina australis</i>                        |             |                   |                                    |
| 618.    | <i>Stigmatopora argus</i>                        |             |                   |                                    |
| 619.    | <i>Thyrsites atun</i>                            |             |                   |                                    |
| 620.    | <i>Trachinotus bailloni</i>                      |             |                   |                                    |
| 621.    | <i>Trachurus novæzelandiæ</i>                    |             |                   |                                    |
| 622.    | <i>Trichiurus lepturus</i>                       |             |                   |                                    |
| 623.    | <i>Trichiurus</i> sp.                            |             |                   |                                    |
| 624.    | <i>Trygonoptera mucosa</i>                       |             |                   |                                    |
| 625.    | <i>Urolophus</i> sp.                             |             |                   |                                    |

#### Fungus

|      |       |                               |  |  |
|------|-------|-------------------------------|--|--|
| 626. | 46074 | <i>Boletellus ananiceps</i>   |  |  |
| 627. |       | <i>Phytophthora cinnamomi</i> |  |  |
| 628. | 45895 | <i>Ustilago avenae</i>        |  |  |

#### Gymnosperm

|      |    |                                                 |  |  |
|------|----|-------------------------------------------------|--|--|
| 629. | 85 | <i>Macrozamia riedlei</i> (Zamia, Djiridji)     |  |  |
| 630. | 86 | <i>Podocarpus drouynianus</i> (Wild Plum, Kula) |  |  |

#### Hepatic (Liverwort)

|      |  |                                 |  |  |
|------|--|---------------------------------|--|--|
| 631. |  | <i>Cephaloziella exiliflora</i> |  |  |
|------|--|---------------------------------|--|--|

#### Invertebrate

|      |  |                              |  |  |
|------|--|------------------------------|--|--|
| 632. |  | <i>Allothreua maculata</i>   |  |  |
| 633. |  | <i>Aname mainae</i>          |  |  |
| 634. |  | <i>Aname tepperi</i>         |  |  |
| 635. |  | <i>Ancylidae</i> sp.         |  |  |
| 636. |  | <i>Argiope protensa</i>      |  |  |
| 637. |  | <i>Arkys walckenaeri</i>     |  |  |
| 638. |  | <i>Artoria linnaei</i>       |  |  |
| 639. |  | <i>Artoriopsis exposita</i>  |  |  |
| 640. |  | <i>Austracantha minax</i>    |  |  |
| 641. |  | <i>Backobourkia brounii</i>  |  |  |
| 642. |  | <i>Backobourkia heroine</i>  |  |  |
| 643. |  | <i>Baiami volucripes</i>     |  |  |
| 644. |  | <i>Caenidae</i> sp.          |  |  |
| 645. |  | <i>Carabidae</i> sp.         |  |  |
| 646. |  | <i>Celaenia excavata</i>     |  |  |
| 647. |  | <i>Cercophonius sulcatus</i> |  |  |
| 648. |  | <i>Chironominae</i> sp.      |  |  |
| 649. |  | <i>Corixidae</i> sp.         |  |  |

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|---------------|-------------------------------------------------------------------------------------|-------------|-------------------|------------------------------------|
| 650.          | <i>Cormocephalus hartmeyer</i>                                                      |             |                   |                                    |
| 651.          | <i>Cryptoerithus quobba</i>                                                         |             |                   |                                    |
| 652.          | <i>Cyclosa trilobata</i>                                                            |             |                   |                                    |
| 653.          | <i>Cyrtophora parnasia</i>                                                          |             |                   |                                    |
| 654.          | <i>Dingosa serrata</i>                                                              |             |                   |                                    |
| 655.          | <i>Dytiscidae sp.</i>                                                               |             |                   |                                    |
| 656.          | <i>Ecnomidae sp.</i>                                                                |             |                   |                                    |
| 657.          | <i>Erigone prominens</i>                                                            |             |                   |                                    |
| 658.          | <i>Eriophora biapicata</i>                                                          |             |                   |                                    |
| 659.          | <i>Gripopterygidae sp.</i>                                                          |             |                   |                                    |
| 660.          | <i>Hydrophilidae sp.</i>                                                            |             |                   |                                    |
| 661.          | <i>Hydropsychidae sp.</i>                                                           |             |                   |                                    |
| 662.          | 48935 <i>Idiosoma sigillatum</i> (Swan Coastal Plain shield-backed trapdoor spider) |             | P3                |                                    |
| 663.          | <i>Isopeda leishmanni</i>                                                           |             |                   |                                    |
| 664.          | <i>Lampona cylindrata</i>                                                           |             |                   |                                    |
| 665.          | <i>Lampona punctigera</i>                                                           |             |                   |                                    |
| 666.          | <i>Latrodectus hasseltii</i>                                                        |             |                   |                                    |
| 667.          | <i>Leptoceridae sp.</i>                                                             |             |                   |                                    |
| 668.          | <i>Leptophlebiidae sp.</i>                                                          |             |                   |                                    |
| 669.          | <i>Missulena granulosa</i>                                                          |             |                   |                                    |
| 670.          | <i>Missulena hoggi</i>                                                              |             |                   |                                    |
| 671.          | <i>Missulena occatoria</i>                                                          |             |                   |                                    |
| 672.          | <i>Mituliodon tarantulinus</i>                                                      |             |                   |                                    |
| 673.          | <i>Mitzoruga insularis</i>                                                          |             |                   |                                    |
| 674.          | <i>Nephila edulis</i>                                                               |             |                   |                                    |
| 675.          | <i>Nicodamus mainae</i>                                                             |             |                   |                                    |
| 676.          | <i>Nunciella aspera</i>                                                             |             |                   |                                    |
| 677.          | <i>Oligochaeta sp.</i>                                                              |             |                   |                                    |
| 678.          | <i>Orthocladinae sp.</i>                                                            |             |                   |                                    |
| 679.          | <i>Palaemonidae sp.</i>                                                             |             |                   |                                    |
| 680.          | <i>Parastacidae sp.</i>                                                             |             |                   |                                    |
| 681.          | <i>Pholcus phalangoides</i>                                                         |             |                   |                                    |
| 682.          | <i>Platorish gelorup</i>                                                            |             |                   |                                    |
| 683.          | <i>Simuliidae sp.</i>                                                               |             |                   |                                    |
| 684.          | <i>Staphylinidae sp.</i>                                                            |             |                   |                                    |
| 685.          | <i>Steatoda capensis</i>                                                            |             |                   |                                    |
| 686.          | <i>Steatoda grossa</i>                                                              |             |                   |                                    |
| 687.          | <i>Synsphyronus magnus</i>                                                          |             |                   |                                    |
| 688.          | <i>Tamopsis distinguenda</i>                                                        |             |                   |                                    |
| 689.          | <i>Tanypodinae sp.</i>                                                              |             |                   |                                    |
| 690.          | <i>Tasmanicosa leuckartii</i>                                                       |             |                   |                                    |
| 691.          | <i>Veliidae sp.</i>                                                                 |             |                   |                                    |
| 692.          | <i>Venator immansueta</i>                                                           |             |                   |                                    |
| 693.          | <i>Venatrix pullastra</i>                                                           |             |                   |                                    |
| 694.          | 34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)                       |             | T                 |                                    |
| <b>Lichen</b> |                                                                                     |             |                   |                                    |
| 695.          | 27628 <i>Caloplaca erythrosticta</i>                                                |             |                   |                                    |
| 696.          | 27645 <i>Candelariella xanthostigmoides</i>                                         |             |                   |                                    |
| 697.          | 27744 <i>Flavoparmelia ferax</i>                                                    |             |                   |                                    |
| 698.          | 41286 <i>Flavoparmelia virensica</i>                                                |             |                   |                                    |
| 699.          | 27775 <i>Heterodermia japonica</i>                                                  |             |                   |                                    |
| 700.          | 27787 <i>Hypogymnia subphysodes</i>                                                 |             |                   |                                    |
| 701.          | 45299 <i>Jackelisia elixii</i>                                                      |             |                   |                                    |
| 702.          | 30458 <i>Parmotrema reticulatum</i>                                                 |             |                   |                                    |
| 703.          | 27975 <i>Physcia stellaris</i>                                                      |             |                   |                                    |
| 704.          | 28223 <i>Ramalina celastris</i> subsp. <i>ovalis</i>                                |             |                   |                                    |
| 705.          | 28224 <i>Ramalina inflata</i> subsp. <i>australis</i>                               |             |                   |                                    |
| 706.          | 28065 <i>Teloschistes chrysophthalmus</i>                                           |             |                   |                                    |
| 707.          | <i>Trapeliopsis flexuosa</i>                                                        |             |                   |                                    |
| 708.          | 28087 <i>Usnea inermis</i>                                                          |             |                   |                                    |
| <b>Mammal</b> |                                                                                     |             |                   |                                    |
| 709.          | 24208 <i>Arctocephalus forsteri</i> (New Zealand Fur Seal, long-nosed fur-seal)     |             | S                 |                                    |
| 710.          | 24209 <i>Arctocephalus tropicalis</i> (Subantarctic fur-seal)                       |             | T                 |                                    |
| 711.          | 24044 <i>Balaenoptera acutorostrata</i> (Dwarf Minke Whale)                         |             |                   |                                    |
| 712.          | 24251 <i>Bos taurus</i> (European Cattle)                                           | Y           |                   |                                    |
| 713.          | 24086 <i>Cercartetus concinnus</i> (Western Pygmy-possum, Mundarda)                 |             |                   |                                    |
| 714.          | 24043 <i>Eubalaena australis</i> (Southern Right Whale)                             |             | T                 |                                    |
| 715.          | 24215 <i>Hydromys chrysogaster</i> (Water-rat, Rakali)                              |             | P4                |                                    |
| 716.          | 48588 <i>Isodon fusciventer</i> (Quenda, southwestern brown bandicoot)              |             | P4                |                                    |

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|---------|---------------------------------------------------------------------------------------------------------------|-------------|-------------------|------------------------------------|
| 717.    | <i>Lobodon carcinophaga</i>                                                                                   |             |                   |                                    |
| 718.    | 24132 <i>Macropus fuliginosus</i> (Western Grey Kangaroo)                                                     |             |                   |                                    |
| 719.    | 24076 <i>Mesoplodon bowdoini</i> (Andrew's Beaked Whale)                                                      |             |                   |                                    |
| 720.    | 24078 <i>Mesoplodon grayi</i> (Gray's Beaked Whale)                                                           |             |                   |                                    |
| 721.    | 24081 <i>Mesoplodon mirus</i> (True's Beaked Whale)                                                           |             |                   |                                    |
| 722.    | 24210 <i>Neophoca cinerea</i> (Australian Sea-lion)                                                           |             | T                 |                                    |
| 723.    | 48022 <i>Notamacropus irma</i> (Western Brush Wallaby)                                                        |             | P4                |                                    |
| 724.    | 24085 <i>Oryctolagus cuniculus</i> (Rabbit)                                                                   | Y           |                   |                                    |
| 725.    | 48070 <i>Phascogale tapoatafa</i> subsp. <i>wambengeri</i> (South-western Brush-tailed Phascogale, Wambenger) |             | S                 |                                    |
| 726.    | 24073 <i>Physeter macrocephalus</i> (Sperm Whale)                                                             |             | T                 |                                    |
| 727.    | 24166 <i>Pseudocheirus occidentalis</i> (Western Ringtail Possum, ngwayir)                                    |             | T                 |                                    |
| 728.    | 24243 <i>Rattus fuscipes</i> (Western Bush Rat)                                                               |             |                   |                                    |
| 729.    | 24245 <i>Rattus rattus</i> (Black Rat)                                                                        | Y           |                   |                                    |
| 730.    | 48113 <i>Stenella coeruleoalba</i> (Striped Dolphin)                                                          |             |                   |                                    |
| 731.    | 48114 <i>Stenella longirostris</i> (Spinner Dolphin)                                                          |             | P4                |                                    |
| 732.    | 24259 <i>Sus scrofa</i> (Pig)                                                                                 | Y           |                   |                                    |
| 733.    | 25521 <i>Trichosurus vulpecula</i> (Common Brushtail Possum)                                                  |             |                   |                                    |
| 734.    | 30954 <i>Tursiops aduncus</i> (Indo-Pacific Bottlenose Dolphin)                                               |             |                   |                                    |
| 735.    | 24069 <i>Tursiops truncatus</i> (Bottlenose Dolphin)                                                          |             |                   |                                    |

### Monocotyledon

|      |                                                                     |   |    |  |
|------|---------------------------------------------------------------------|---|----|--|
| 736. | 1208 <i>Acanthocarpus preissii</i>                                  |   |    |  |
| 737. | 23501 <i>Agrostocrinum scabrum</i> subsp. <i>scabrum</i>            |   |    |  |
| 738. | 184 <i>Aira caryophylla</i> (Silvery Hairgrass)                     | Y |    |  |
| 739. | 35159 <i>Ammophila arenaria</i> subsp. <i>arenaria</i>              | Y |    |  |
| 740. | 126 <i>Amphibolis antarctica</i> (Sea Nymph)                        |   |    |  |
| 741. | 11434 <i>Anigozanthos humilis</i> subsp. <i>humilis</i>             |   |    |  |
| 742. | 11261 <i>Anigozanthos manglesii</i> subsp. <i>manglesii</i>         |   |    |  |
| 743. | 29487 <i>Anigozanthos manglesii</i> var. <i>x angustifolius</i>     |   |    |  |
| 744. | 1416 <i>Anigozanthos viridis</i> (Green Kangaroo Paw, Kurulbardang) |   |    |  |
| 745. | 202 <i>Anthoxanthum odoratum</i> (Sweet Vernal Grass)               | Y |    |  |
| 746. | 1117 <i>Aphelia cyperoides</i>                                      |   |    |  |
| 747. | 141 <i>Aponogeton hexatepalus</i> (Stalked Water Ribbons)           |   | P4 |  |
| 748. | 8779 <i>Asparagus asparagoides</i> (Bridal Creeper)                 | Y |    |  |
| 749. | 16943 <i>Asparagus declinatus</i>                                   | Y |    |  |
| 750. | 16945 <i>Asparagus plumosus</i>                                     | Y |    |  |
| 751. | 38480 <i>Austrostipa bronwenae</i>                                  |   | T  |  |
| 752. | 17233 <i>Austrostipa campylachne</i>                                |   |    |  |
| 753. | 17234 <i>Austrostipa compressa</i>                                  |   |    |  |
| 754. | 38481 <i>Austrostipa jacobsoniana</i>                               |   | T  |  |
| 755. | 17253 <i>Austrostipa semibarbata</i>                                |   |    |  |
| 756. | 231 <i>Avellinia michelii</i>                                       | Y |    |  |
| 757. | 233 <i>Avena barbata</i> (Bearded Oat)                              | Y |    |  |
| 758. | 235 <i>Avena sativa</i> (Common Oat)                                | Y |    |  |
| 759. | 743 <i>Baumea juncea</i> (Bare Twigrush)                            |   |    |  |
| 760. | 749 <i>Bolboschoenus caldwellii</i> (Marsh Club-rush)               |   |    |  |
| 761. | 244 <i>Briza maxima</i> (Blowfly Grass)                             | Y |    |  |
| 762. | 245 <i>Briza minor</i> (Shivery Grass)                              | Y |    |  |
| 763. | 248 <i>Bromus catharticus</i> (Prairie Grass)                       | Y |    |  |
| 764. | 249 <i>Bromus diandrus</i> (Great Brome)                            | Y |    |  |
| 765. | 12770 <i>Burchardia congesta</i>                                    |   |    |  |
| 766. | 1385 <i>Burchardia multiflora</i> (Dwarf Burchardia)                |   |    |  |
| 767. | 1276 <i>Caesia micrantha</i> (Pale Grass Lily)                      |   |    |  |
| 768. | 1277 <i>Caesia occidentalis</i>                                     |   |    |  |
| 769. | 15332 <i>Caladenia attingens</i> subsp. <i>attingens</i>            |   |    |  |
| 770. | 15579 <i>Caladenia chapmanii</i>                                    |   |    |  |
| 771. | 1592 <i>Caladenia flava</i> (Cowslip Orchid)                        |   |    |  |
| 772. | 1595 <i>Caladenia hirta</i> (Sugar Candy Orchid)                    |   |    |  |
| 773. | 15354 <i>Caladenia hirta</i> subsp. <i>hirta</i>                    |   |    |  |
| 774. | 1605 <i>Caladenia marginata</i> (White Fairy Orchid)                |   |    |  |
| 775. | 15371 <i>Caladenia nana</i> subsp. <i>nana</i>                      |   |    |  |
| 776. | 15503 <i>Caladenia paludosa</i>                                     |   |    |  |
| 777. | 18026 <i>Caladenia pendens</i> subsp. <i>pendens</i>                |   |    |  |
| 778. | 13862 <i>Caladenia speciosa</i>                                     |   | P4 |  |
| 779. | 19309 <i>Calectasia narragara</i>                                   |   |    |  |
| 780. | 754 <i>Carex divisa</i> (Divided Sedge)                             | Y |    |  |
| 781. | 1162 <i>Cartonema philydroides</i>                                  |   |    |  |
| 782. | 41570 <i>Cenchrus spinifex</i> (Spiny Burrgrass)                    | Y |    |  |
| 783. | 1121 <i>Centrolepis aristata</i> (Pointed Centrolepis)              |   |    |  |
| 784. | 1125 <i>Centrolepis drummondiana</i>                                |   |    |  |

| Name ID | Species Name                                                     | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|------------------------------------------------------------------|-------------|-------------------|------------------------------------|
| 785.    | 1134 <i>Centrolepis polygyna</i> (Wiry Centrolepis)              |             |                   |                                    |
| 786.    | 17685 <i>Chaetanthus aristatus</i>                               |             |                   |                                    |
| 787.    | 1280 <i>Chamaescilla corymbosa</i> (Blue Squill)                 |             |                   |                                    |
| 788.    | 267 <i>Chloris gayana</i> (Rhodes Grass)                         | Y           |                   |                                    |
| 789.    | 1418 <i>Conostylis aculeata</i> (Prickly Conostylis)             |             |                   |                                    |
| 790.    | 11826 <i>Conostylis aculeata</i> subsp. <i>aculeata</i>          |             |                   |                                    |
| 791.    | 12118 <i>Conostylis aculeata</i> subsp. <i>gracilis</i>          |             |                   |                                    |
| 792.    | 48259 <i>Cortaderia seloana</i> subsp. <i>selloana</i>           | Y           |                   |                                    |
| 793.    | 11283 <i>Corynotheca micrantha</i> var. <i>micrantha</i>         |             |                   |                                    |
| 794.    | 15114 <i>Cyanicula gemmata</i>                                   |             |                   |                                    |
| 795.    | 768 <i>Cyathochaeta avenacea</i>                                 |             |                   |                                    |
| 796.    | 783 <i>Cyperus congestus</i> (Dense Flat-sedge)                  | Y           |                   |                                    |
| 797.    | 801 <i>Cyperus laevigatus</i>                                    | Y           |                   |                                    |
| 798.    | 816 <i>Cyperus tenuiflorus</i> (Scaly Sedge)                     | Y           |                   |                                    |
| 799.    | 10916 <i>Cyrtostylis huegelii</i>                                |             |                   |                                    |
| 800.    | 1218 <i>Dasyopogon bromeliifolius</i> (Pineapple Bush)           |             |                   |                                    |
| 801.    | 17691 <i>Desmocladius fasciculatus</i>                           |             |                   |                                    |
| 802.    | 1287 <i>Dichopogon capillipes</i>                                |             |                   |                                    |
| 803.    | 10796 <i>Diuris drummondii</i> (Tall Donkey Orchid)              |             | T                 |                                    |
| 804.    | 10938 <i>Diuris filifolia</i> (Cat's Face Orchid)                |             |                   |                                    |
| 805.    | 1640 <i>Drakaea glyptodon</i> (King-in-his-carriage)             |             |                   |                                    |
| 806.    | 11156 <i>Drakaea livida</i>                                      |             |                   |                                    |
| 807.    | 347 <i>Ehrharta calycina</i> (Perennial Veldt Grass)             | Y           |                   |                                    |
| 808.    | 349 <i>Ehrharta longiflora</i> (Annual Veldt Grass)              | Y           |                   |                                    |
| 809.    | 822 <i>Eleocharis acuta</i> (Common Spikerush)                   |             |                   |                                    |
| 810.    | 1643 <i>Elythranthera brunonis</i> (Purple Enamel Orchid)        |             |                   |                                    |
| 811.    | 1644 <i>Elythranthera emarginata</i> (Pink Enamel Orchid)        |             |                   |                                    |
| 812.    | 1067 <i>Empodisma gracillimum</i>                                |             |                   |                                    |
| 813.    | 376 <i>Eragrostis curvula</i> (African Lovegrass)                | Y           |                   |                                    |
| 814.    | 1646 <i>Eriochilus dilatatus</i> (White Bunny Orchid)            |             |                   |                                    |
| 815.    | 15410 <i>Eriochilus dilatatus</i> subsp. <i>dilatatus</i>        |             |                   |                                    |
| 816.    | 15412 <i>Eriochilus dilatatus</i> subsp. <i>multiflorus</i>      |             |                   |                                    |
| 817.    | 15415 <i>Eriochilus scaber</i> subsp. <i>scaber</i>              |             |                   |                                    |
| 818.    | 430 <i>Festuca arundinacea</i> (Tall Fescue)                     | Y           |                   |                                    |
| 819.    | 20216 <i>Ficinia nodosa</i> (Knotted Club Rush)                  |             |                   |                                    |
| 820.    | 907 <i>Gahnia trifida</i> (Coast Saw-sedge)                      |             |                   |                                    |
| 821.    | 1524 <i>Gladiolus undulatus</i> (Wild Gladiolus)                 | Y           |                   |                                    |
| 822.    | 49050 <i>Gloriosa superba</i>                                    | Y           |                   | Y                                  |
| 823.    | 1472 <i>Haemodorum simplex</i>                                   |             |                   |                                    |
| 824.    | 11451 <i>Hemarthria uncinata</i> var. <i>uncinata</i>            |             |                   |                                    |
| 825.    | 444 <i>Holcus lanatus</i> (Yorkshire Fog)                        | Y           |                   |                                    |
| 826.    | 1070 <i>Hypolaena exsulca</i>                                    |             |                   |                                    |
| 827.    | 1071 <i>Hypolaena fastigiata</i>                                 |             |                   |                                    |
| 828.    | 17841 <i>Hypolaena pubescens</i>                                 |             |                   |                                    |
| 829.    | 20199 <i>Isolepis cernua</i> var. <i>cernua</i>                  |             |                   |                                    |
| 830.    | 20200 <i>Isolepis cernua</i> var. <i>setiformis</i>              |             |                   |                                    |
| 831.    | 912 <i>Isolepis cyperoides</i>                                   |             |                   |                                    |
| 832.    | 917 <i>Isolepis marginata</i> (Coarse Club-rush)                 |             |                   |                                    |
| 833.    | 919 <i>Isolepis oldfieldiana</i>                                 |             |                   |                                    |
| 834.    | 1295 <i>Johnsonia acaulis</i>                                    |             |                   |                                    |
| 835.    | 1178 <i>Juncus bufonius</i> (Toad Rush)                          | Y           |                   |                                    |
| 836.    | 1180 <i>Juncus capitatus</i> (Capitate Rush)                     | Y           |                   |                                    |
| 837.    | 11922 <i>Juncus kraussii</i> subsp. <i>australiensis</i>         |             |                   |                                    |
| 838.    | 19955 <i>Lachnagrostis plebeia</i>                               |             |                   |                                    |
| 839.    | 925 <i>Lepidosperma angustatum</i>                               |             |                   |                                    |
| 840.    | 937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)        |             |                   |                                    |
| 841.    | 940 <i>Lepidosperma pubisquamum</i>                              |             |                   |                                    |
| 842.    | 20398 <i>Lepidosperma</i> sp. Blackwood (R. Davis 7696)          |             |                   |                                    |
| 843.    | 29150 <i>Lepidosperma</i> sp. Margaret River (B.J. Lepschi 1841) |             |                   |                                    |
| 844.    | 945 <i>Lepidosperma squamatum</i>                                |             |                   |                                    |
| 845.    | 1078 <i>Leptocarpus coangustatus</i>                             |             |                   |                                    |
| 846.    | 46376 <i>Leptocarpus denmarkicus</i>                             |             |                   |                                    |
| 847.    | 46377 <i>Leptocarpus scoparius</i>                               |             |                   |                                    |
| 848.    | 46374 <i>Leptocarpus trisepalus</i>                              |             |                   |                                    |
| 849.    | 1493 <i>Leucojum aestivum</i> (Snowflake)                        | Y           |                   |                                    |
| 850.    | 476 <i>Lolium perenne</i> (Perennial Ryegrass)                   | Y           |                   |                                    |
| 851.    | 478 <i>Lolium rigidum</i> (Wimmera Ryegrass)                     | Y           |                   |                                    |
| 852.    | <i>Lolium</i> sp.                                                |             |                   |                                    |
| 853.    | 1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)                |             |                   |                                    |
| 854.    | 1228 <i>Lomandra hermaphrodita</i>                               |             |                   |                                    |

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|---------|-------------------------------------------------------------------|-------------|-------------------|------------------------------------|
| 855.    | 1234 <i>Lomandra nigricans</i>                                    |             |                   |                                    |
| 856.    | 1236 <i>Lomandra odora</i> (Tiered Matrush)                       |             |                   |                                    |
| 857.    | 1239 <i>Lomandra preissii</i>                                     |             |                   |                                    |
| 858.    | 1240 <i>Lomandra purpurea</i> (Purple Mat Rush)                   |             |                   |                                    |
| 859.    | 1246 <i>Lomandra suaveolens</i>                                   |             |                   |                                    |
| 860.    | 1092 <i>Loxocarya cinerea</i>                                     |             |                   |                                    |
| 861.    | 1097 <i>Lyginia barbata</i>                                       |             |                   |                                    |
| 862.    | 18049 <i>Lyginia imberbis</i>                                     |             |                   |                                    |
| 863.    | 1656 <i>Lyperanthus serratus</i> (Rattle Beak Orchid)             |             |                   |                                    |
| 864.    | 14985 <i>Melinis repens</i>                                       | Y           |                   |                                    |
| 865.    | 957 <i>Mesomelaena tetragona</i> (Semaphore Sedge)                |             |                   |                                    |
| 866.    | 485 <i>Microlaena stipoides</i> (Weeping Grass)                   |             |                   |                                    |
| 867.    | 10954 <i>Microtis media</i> (Tall Mignonette Orchid)              |             |                   |                                    |
| 868.    | 15419 <i>Microtis media</i> subsp. <i>media</i>                   |             |                   |                                    |
| 869.    | 19179 <i>Moraea flaccida</i> (One-leaf Cape Tulip)                | Y           |                   |                                    |
| 870.    | 44496 <i>Narcissus tazetta</i> subsp. <i>italicus</i>             | Y           |                   |                                    |
| 871.    | 1381 <i>Nothoscordum gracile</i>                                  | Y           |                   |                                    |
| 872.    | 14531 <i>Ottelia ovalifolia</i> subsp. <i>ovalifolia</i>          |             |                   |                                    |
| 873.    | 502 <i>Panicum capillare</i> (Witchgrass)                         | Y           |                   |                                    |
| 874.    | 1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)           |             |                   |                                    |
| 875.    | 43762 <i>Pauridia occidentalis</i> var. <i>quadriloba</i>         |             |                   |                                    |
| 876.    | 547 <i>Phalaris angusta</i>                                       | Y           |                   |                                    |
| 877.    | 1478 <i>Phlebocarya ciliata</i>                                   |             |                   |                                    |
| 878.    | 577 <i>Poa poiformis</i> (Coastal Poa)                            |             |                   |                                    |
| 879.    | 583 <i>Polypogon tenellus</i>                                     |             |                   |                                    |
| 880.    | 122 <i>Posidonia angustifolia</i>                                 |             |                   |                                    |
| 881.    | 110 <i>Potamogeton drummondii</i>                                 |             |                   |                                    |
| 882.    | 15424 <i>Praecoxanthus aphyllus</i>                               |             |                   |                                    |
| 883.    | 1674 <i>Prasophyllum giganteum</i> (Bronze Leek Orchid)           |             |                   |                                    |
| 884.    | 1680 <i>Prasophyllum parvifolium</i> (Autumn Leek Orchid)         |             |                   |                                    |
| 885.    | 44084 <i>Prasophyllum</i> sp. <i>early</i> (G. Brockman GBB 1626) |             |                   |                                    |
| 886.    | 1685 <i>Pterostylis angusta</i>                                   |             |                   |                                    |
| 887.    | 15426 <i>Pterostylis aspera</i>                                   |             |                   |                                    |
| 888.    | 44723 <i>Pterostylis glebosa</i>                                  |             |                   |                                    |
| 889.    | 11118 <i>Pterostylis pyramidalis</i> (Snail Orchid)               |             |                   |                                    |
| 890.    | 1694 <i>Pterostylis rogersii</i> (Curled-tongue Shell Orchid)     |             |                   |                                    |
| 891.    | <i>Pterostylis</i> sp.                                            |             |                   |                                    |
| 892.    | 10998 <i>Pterostylis turfosa</i> (Bird Orchid)                    |             |                   |                                    |
| 893.    | 1698 <i>Pterostylis vittata</i> (Banded Greenhood)                |             |                   |                                    |
| 894.    | 31673 <i>Puccinellia vassica</i>                                  |             | P1                |                                    |
| 895.    | 16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)      |             |                   |                                    |
| 896.    | 14485 <i>Romulea flava</i> var. <i>minor</i>                      | Y           |                   |                                    |
| 897.    | 1555 <i>Romulea obscura</i>                                       | Y           |                   |                                    |
| 898.    | 1556 <i>Romulea rosea</i> (Guildford Grass)                       | Y           |                   |                                    |
| 899.    | 40426 <i>Rytidosperma occidentale</i>                             |             |                   |                                    |
| 900.    | 968 <i>Schoenoplectus pungens</i> (Sharpleaf Rush)                |             |                   |                                    |
| 901.    | 973 <i>Schoenus asperocarpus</i> (Poison Sedge)                   |             |                   |                                    |
| 902.    | 974 <i>Schoenus benthamii</i>                                     |             | P3                |                                    |
| 903.    | 996 <i>Schoenus laevigatus</i>                                    |             |                   |                                    |
| 904.    | 17614 <i>Schoenus plumosus</i>                                    |             |                   |                                    |
| 905.    | 1011 <i>Schoenus rigens</i>                                       |             |                   |                                    |
| 906.    | 1013 <i>Schoenus sculptus</i> (Gimlet Bog-rush)                   |             |                   |                                    |
| 907.    | 1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)                  |             |                   |                                    |
| 908.    | 625 <i>Spinifex longifolius</i> (Beach Spinifex)                  |             |                   |                                    |
| 909.    | 635 <i>Sporobolus virginicus</i> (Marine Couch)                   |             |                   |                                    |
| 910.    | 1036 <i>Tetraria octandra</i>                                     |             |                   |                                    |
| 911.    | 1717 <i>Thelymitra variegata</i> (Queen of Sheba)                 |             | P2                |                                    |
| 912.    | 1318 <i>Thysanotus arbuscula</i>                                  |             |                   |                                    |
| 913.    | 1319 <i>Thysanotus arenarius</i>                                  |             |                   |                                    |
| 914.    | 1351 <i>Thysanotus sparteus</i>                                   |             |                   |                                    |
| 915.    | 1354 <i>Thysanotus tenellus</i>                                   |             |                   |                                    |
| 916.    | 1357 <i>Thysanotus thyrsoideus</i>                                |             |                   |                                    |
| 917.    | 1368 <i>Trachyandra divaricata</i>                                | Y           |                   |                                    |
| 918.    | 1481 <i>Tribonanthes australis</i> (Southern Tiurmdin)            |             |                   |                                    |
| 919.    | 1482 <i>Tribonanthes brachypetala</i> (Nodding Tiurmdin)          |             |                   |                                    |
| 920.    | 1483 <i>Tribonanthes longipetala</i> (Branching Tiurmdin)         |             |                   |                                    |
| 921.    | 147 <i>Triglochin mucronata</i>                                   |             |                   |                                    |
| 922.    | 18587 <i>Triglochin nana</i>                                      |             |                   |                                    |
| 923.    | 151 <i>Triglochin striata</i>                                     |             |                   |                                    |
| 924.    | 722 <i>Vulpia bromoides</i> (Squirrel Tail Fescue)                | Y           |                   |                                    |

| Name ID | Species Name                                           | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|--------------------------------------------------------|-------------|-------------------|------------------------------------|
| 925.    | 724 <i>Vulpia myuros</i> (Rat's Tail Fescue)           | Y           |                   |                                    |
| 926.    | 1566 <i>Watsonia marginata</i>                         | Y           |                   |                                    |
| 927.    | 18108 <i>Watsonia meriana</i> var. <i>bulbillifera</i> | Y           |                   |                                    |
| 928.    | 18118 <i>Watsonia meriana</i> var. <i>meriana</i>      | Y           |                   |                                    |
| 929.    | 1251 <i>Xanthorrhoea brunonis</i>                      |             |                   |                                    |
| 930.    | 1049 <i>Zantedeschia aethiopica</i> (Arum Lily)        | Y           |                   |                                    |

#### Pteridophyte (Fern)

|      |                                                 |  |  |  |
|------|-------------------------------------------------|--|--|--|
| 931. | 6 <i>Selaginella gracillima</i> (Tiny Clubmoss) |  |  |  |
|------|-------------------------------------------------|--|--|--|

#### Reptile

|      |                                                                        |  |    |  |
|------|------------------------------------------------------------------------|--|----|--|
| 932. | 42368 <i>Acritoscincus trilineatus</i> (Western Three-lined Skink)     |  |    |  |
| 933. | 24991 <i>Aprasia repens</i> (Sand-plain Worm-lizard)                   |  |    |  |
| 934. | 25335 <i>Caretta caretta</i> (Loggerhead Turtle)                       |  | T  |  |
| 935. | 24980 <i>Christinus marmoratus</i> (Marbled Gecko)                     |  |    |  |
| 936. | 30893 <i>Cryptoblepharus buehneri</i>                                  |  |    |  |
| 937. | 25027 <i>Ctenotus australis</i>                                        |  |    |  |
| 938. | 25047 <i>Ctenotus impar</i>                                            |  |    |  |
| 939. | 25049 <i>Ctenotus labillardieri</i>                                    |  |    |  |
| 940. | 41641 <i>Ctenotus ora</i> (Coastal Plains Skink)                       |  | P3 |  |
| 941. | 25096 <i>Egernia kingii</i> (King's Skink)                             |  |    |  |
| 942. | 25100 <i>Egernia napoleonis</i>                                        |  |    |  |
| 943. | 25250 <i>Elapognathus coronatus</i> (Crowned Snake)                    |  |    |  |
| 944. | 30919 <i>Hemiergis gracilipes</i> (skink)                              |  |    |  |
| 945. | 25119 <i>Hemiergis quadrilineata</i>                                   |  |    |  |
| 946. | 44656 <i>Hydrophis major</i> (Olive-headed seasnake, greater seasnake) |  |    |  |
| 947. | 42410 <i>Hydrophis ornatus</i> (Ornate Reef Seasnake, Sea Snake)       |  |    |  |
| 948. | 43384 <i>Hydrophis platurus</i> (Yellow-bellied Seasnake)              |  |    |  |
| 949. | 25131 <i>Lerista distinguenda</i>                                      |  |    |  |
| 950. | 25133 <i>Lerista elegans</i>                                           |  |    |  |
| 951. | 25005 <i>Lialis burtonis</i>                                           |  |    |  |
| 952. | 42413 <i>Lissolepis luctuosa</i> (Western Swamp Skink)                 |  |    |  |
| 953. | 25184 <i>Menetia greyii</i>                                            |  |    |  |
| 954. | 25191 <i>Morethia lineocellata</i>                                     |  |    |  |
| 955. | 25344 <i>Natator depressus</i> (Flatback Turtle)                       |  | T  |  |
| 956. | 25248 <i>Neelaps bimaculatus</i> (Black-naped Snake)                   |  |    |  |
| 957. | 25252 <i>Notechis scutatus</i> (Tiger Snake)                           |  |    |  |
| 958. | 25253 <i>Parasuta gouldii</i>                                          |  |    |  |
| 959. | 25255 <i>Parasuta nigriceps</i>                                        |  |    |  |
| 960. | 25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)                       |  |    |  |
| 961. | 24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)   |  |    |  |
| 962. | 25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)         |  |    |  |
| 963. | 25266 <i>Simoselaps bertholdi</i> (Jan's Banded Snake)                 |  |    |  |
| 964. | 25519 <i>Tiliqua rugosa</i>                                            |  |    |  |

#### 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  
3 - Priority 3  
4 - Priority 4  
5 - Priority 5

<sup>1</sup> 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 2: PMST**



# EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 18/02/21 17:28:04

[Summary](#)

[Details](#)

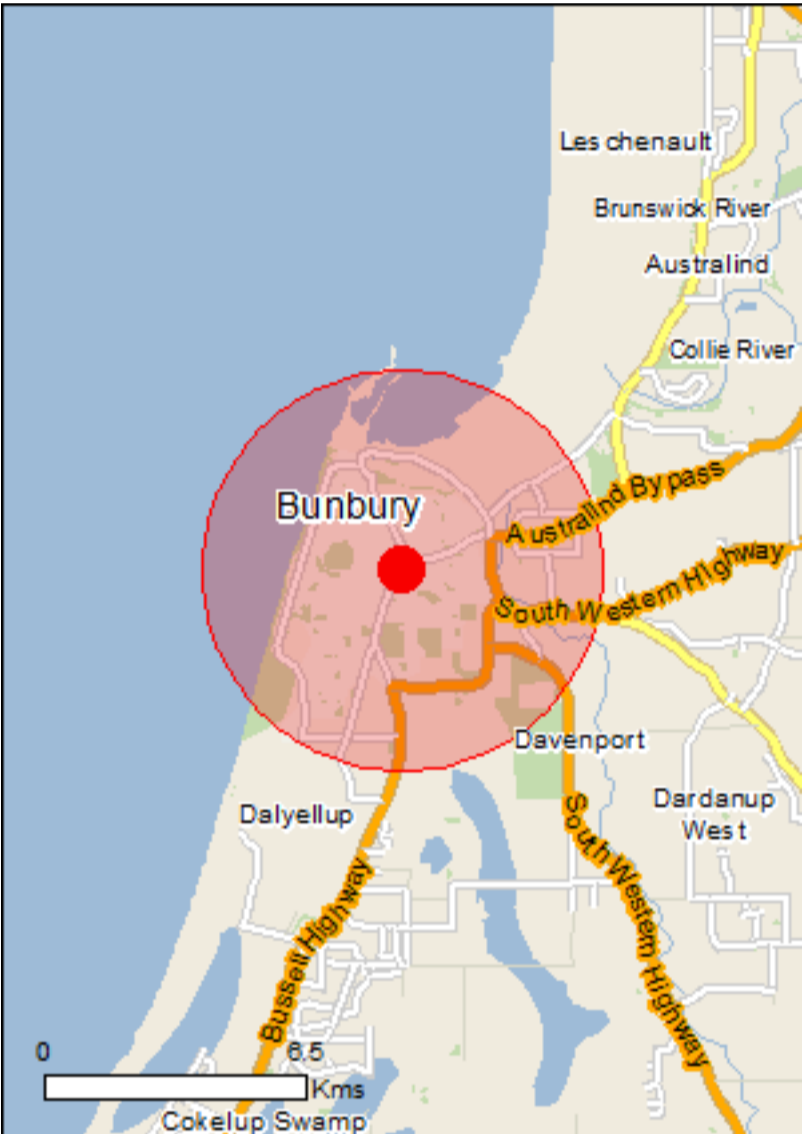
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



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[Coordinates](#)

Buffer: 5.0Km



# Summary

## Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

|                                                           |      |
|-----------------------------------------------------------|------|
| <a href="#">World Heritage Properties:</a>                | None |
| <a href="#">National Heritage Places:</a>                 | None |
| <a href="#">Wetlands of International Importance:</a>     | None |
| <a href="#">Great Barrier Reef Marine Park:</a>           | None |
| <a href="#">Commonwealth Marine Area:</a>                 | None |
| <a href="#">Listed Threatened Ecological Communities:</a> | 3    |
| <a href="#">Listed Threatened Species:</a>                | 58   |
| <a href="#">Listed Migratory Species:</a>                 | 44   |

## Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

|                                                    |      |
|----------------------------------------------------|------|
| <a href="#">Commonwealth Land:</a>                 | 2    |
| <a href="#">Commonwealth Heritage Places:</a>      | None |
| <a href="#">Listed Marine Species:</a>             | 69   |
| <a href="#">Whales and Other Cetaceans:</a>        | 13   |
| <a href="#">Critical Habitats:</a>                 | None |
| <a href="#">Commonwealth Reserves Terrestrial:</a> | None |
| <a href="#">Australian Marine Parks:</a>           | None |

## Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

|                                                  |      |
|--------------------------------------------------|------|
| <a href="#">State and Territory Reserves:</a>    | None |
| <a href="#">Regional Forest Agreements:</a>      | None |
| <a href="#">Invasive Species:</a>                | 28   |
| <a href="#">Nationally Important Wetlands:</a>   | None |
| <a href="#">Key Ecological Features (Marine)</a> | None |

# Details

## Matters of National Environmental Significance

Listed Threatened Ecological Communities

[ Resource Information ]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

| Name                                                                                                                  | Status                | Type of Presence                      |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|
| <a href="#">Banksia Woodlands of the Swan Coastal Plain ecological community</a>                                      | Endangered            | Community likely to occur within area |
| <a href="#">Clay Pans of the Swan Coastal Plain</a>                                                                   | Critically Endangered | Community likely to occur within area |
| <a href="#">Tuart (Eucalyptus gomphocephala) Woodlands and Forests of the Swan Coastal Plain ecological community</a> | Critically Endangered | Community likely to occur within area |

Listed Threatened Species

[ Resource Information ]

| Name                                                                                                   | Status                | Type of Presence                                       |
|--------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|
| Birds                                                                                                  |                       |                                                        |
| <a href="#">Anous tenuirostris melanops</a><br>Australian Lesser Noddy [26000]                         | Vulnerable            | Species or species habitat may occur within area       |
| <a href="#">Botaurus poiciloptilus</a><br>Australasian Bittern [1001]                                  | Endangered            | Species or species habitat likely to occur within area |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]                                               | Endangered            | Species or species habitat known to occur within area  |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]                                          | Critically Endangered | Species or species habitat known to occur within area  |
| <a href="#">Calyptorhynchus banksii naso</a><br>Forest Red-tailed Black-Cockatoo, Karrak [67034]       | Vulnerable            | Species or species habitat known to occur within area  |
| <a href="#">Calyptorhynchus baudinii</a><br>Baudin's Cockatoo, Long-billed Black-Cockatoo [769]        | Endangered            | Breeding known to occur within area                    |
| <a href="#">Calyptorhynchus latirostris</a><br>Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523] | Endangered            | Species or species habitat known to occur within area  |
| <a href="#">Diomedea amsterdamensis</a><br>Amsterdam Albatross [64405]                                 | Endangered            | Species or species habitat may occur within area       |
| <a href="#">Diomedea dabbenena</a><br>Tristan Albatross [66471]                                        | Endangered            | Species or species habitat may occur within area       |
| <a href="#">Diomedea epomophora</a><br>Southern Royal Albatross [89221]                                | Vulnerable            | Foraging, feeding or related behaviour likely          |

| Name                                                                                                                     | Status                | Type of Presence                                                   |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------|
|                                                                                                                          |                       | to occur within area                                               |
| <a href="#">Diomedea exulans</a><br>Wandering Albatross [89223]                                                          | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area |
| <a href="#">Diomedea sanfordi</a><br>Northern Royal Albatross [64456]                                                    | Endangered            | Foraging, feeding or related behaviour likely to occur within area |
| <a href="#">Falco hypoleucos</a><br>Grey Falcon [929]                                                                    | Vulnerable            | Species or species habitat may occur within area                   |
| <a href="#">Halobaena caerulea</a><br>Blue Petrel [1059]                                                                 | Vulnerable            | Species or species habitat may occur within area                   |
| <a href="#">Limosa lapponica menzbieri</a><br>Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432] | Critically Endangered | Species or species habitat known to occur within area              |
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060]                             | Endangered            | Species or species habitat may occur within area                   |
| <a href="#">Macronectes halli</a><br>Northern Giant Petrel [1061]                                                        | Vulnerable            | Species or species habitat may occur within area                   |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]                                    | Critically Endangered | Species or species habitat known to occur within area              |
| <a href="#">Pachyptila turtur subantarctica</a><br>Fairy Prion (southern) [64445]                                        | Vulnerable            | Species or species habitat likely to occur within area             |
| <a href="#">Phoebetria fusca</a><br>Sooty Albatross [1075]                                                               | Vulnerable            | Species or species habitat may occur within area                   |
| <a href="#">Pterodroma mollis</a><br>Soft-plumaged Petrel [1036]                                                         | Vulnerable            | Species or species habitat may occur within area                   |
| <a href="#">Rostratula australis</a><br>Australian Painted Snipe [77037]                                                 | Endangered            | Species or species habitat likely to occur within area             |
| <a href="#">Sternula nereis nereis</a><br>Australian Fairy Tern [82950]                                                  | Vulnerable            | Foraging, feeding or related behaviour known to occur within area  |
| <a href="#">Thalassarche carteri</a><br>Indian Yellow-nosed Albatross [64464]                                            | Vulnerable            | Foraging, feeding or related behaviour may occur within area       |
| <a href="#">Thalassarche cauta</a><br>Shy Albatross [89224]                                                              | Endangered            | Foraging, feeding or related behaviour likely to occur within area |
| <a href="#">Thalassarche impavida</a><br>Campbell Albatross, Campbell Black-browed Albatross [64459]                     | Vulnerable            | Species or species habitat may occur within area                   |
| <a href="#">Thalassarche melanophris</a><br>Black-browed Albatross [66472]                                               | Vulnerable            | Species or species habitat may occur within area                   |
| <a href="#">Thalassarche steadi</a><br>White-capped Albatross [64462]                                                    | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area |

| Name                                                                                                                   | Status                | Type of Presence                                       |
|------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|
| Fish                                                                                                                   |                       |                                                        |
| <a href="#">Nannatherina balstoni</a><br>Balston's Pygmy Perch [66698]                                                 | Vulnerable            | Species or species habitat likely to occur within area |
| Mammals                                                                                                                |                       |                                                        |
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]                                                               | Endangered            | Species or species habitat likely to occur within area |
| <a href="#">Dasyurus geoffroii</a><br>Chuditch, Western Quoll [330]                                                    | Vulnerable            | Species or species habitat known to occur within area  |
| <a href="#">Eubalaena australis</a><br>Southern Right Whale [40]                                                       | Endangered            | Breeding known to occur within area                    |
| <a href="#">Megaptera novaeangliae</a><br>Humpback Whale [38]                                                          | Vulnerable            | Congregation or aggregation known to occur within area |
| <a href="#">Neophoca cinerea</a><br>Australian Sea-lion, Australian Sea Lion [22]                                      | Endangered            | Species or species habitat may occur within area       |
| <a href="#">Pseudocheirus occidentalis</a><br>Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911] | Critically Endangered | Species or species habitat known to occur within area  |
| <a href="#">Setonix brachyurus</a><br>Quokka [229]                                                                     | Vulnerable            | Species or species habitat may occur within area       |
| Other                                                                                                                  |                       |                                                        |
| <a href="#">Westralunio carteri</a><br>Carter's Freshwater Mussel, Freshwater Mussel [86266]                           | Vulnerable            | Species or species habitat known to occur within area  |
| Plants                                                                                                                 |                       |                                                        |
| <a href="#">Andersonia gracilis</a><br>Slender Andersonia [14470]                                                      | Endangered            | Species or species habitat may occur within area       |
| <a href="#">Austrostipa bronwenae</a><br>[87808]                                                                       | Endangered            | Species or species habitat known to occur within area  |
| <a href="#">Austrostipa jacobiana</a><br>[87809]                                                                       | Critically Endangered | Species or species habitat known to occur within area  |
| <a href="#">Banksia nivea subsp. uliginosa</a><br>Swamp Honeypot [82766]                                               | Endangered            | Species or species habitat may occur within area       |
| <a href="#">Caladenia huegelii</a><br>King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]              | Endangered            | Species or species habitat likely to occur within area |
| <a href="#">Diuris drummondii</a><br>Tall Donkey Orchid [4365]                                                         | Vulnerable            | Species or species habitat known to occur within area  |
| <a href="#">Diuris micrantha</a><br>Dwarf Bee-orchid [55082]                                                           | Vulnerable            | Species or species habitat likely to occur within area |
| <a href="#">Diuris purdiei</a><br>Purdie's Donkey-orchid [12950]                                                       | Endangered            | Species or species habitat may occur within area       |

| Name                                                                                                                      | Status                | Type of Presence                                       |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|
| <a href="#">Drakaea elastica</a><br>Glossy-leaved Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753] | Endangered            | Species or species habitat likely to occur within area |
| <a href="#">Drakaea micrantha</a><br>Dwarf Hammer-orchid [56755]                                                          | Vulnerable            | Species or species habitat likely to occur within area |
| <a href="#">Eleocharis keigheryi</a><br>Keighery's Eleocharis [64893]                                                     | Vulnerable            | Species or species habitat may occur within area       |
| <a href="#">Lambertia echinata subsp. occidentalis</a><br>Western Prickly Honeysuckle [64528]                             | Endangered            | Species or species habitat may occur within area       |
| <a href="#">Synaphea sp. Fairbridge Farm (D. Papenfus 696)</a><br>Selena's Synaphea [82881]                               | Critically Endangered | Species or species habitat likely to occur within area |
| <a href="#">Synaphea sp. Serpentine (G.R. Brand 103)</a><br>[86879]                                                       | Critically Endangered | Species or species habitat may occur within area       |

| Reptiles                                                                                 |            |                                                                   |
|------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------|
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]                              | Endangered | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]                                    | Vulnerable | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768] | Endangered | Breeding likely to occur within area                              |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                             | Vulnerable | Foraging, feeding or related behaviour known to occur within area |

| Sharks                                                                                                        |            |                                                       |
|---------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------|
| <a href="#">Carcharias taurus (west coast population)</a><br>Grey Nurse Shark (west coast population) [68752] | Vulnerable | Species or species habitat known to occur within area |
| <a href="#">Carcharodon carcharias</a><br>White Shark, Great White Shark [64470]                              | Vulnerable | Species or species habitat known to occur within area |
| <a href="#">Rhincodon typus</a><br>Whale Shark [66680]                                                        | Vulnerable | Species or species habitat may occur within area      |

| Listed Migratory Species                                                                         |            | [ <a href="#">Resource Information</a> ]               |
|--------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------|
| * Species is listed under a different scientific name on the EPBC Act - Threatened Species list. |            |                                                        |
| Name                                                                                             | Threatened | Type of Presence                                       |
| Migratory Marine Birds                                                                           |            |                                                        |
| <a href="#">Anous stolidus</a><br>Common Noddy [825]                                             |            | Species or species habitat may occur within area       |
| <a href="#">Apus pacificus</a><br>Fork-tailed Swift [678]                                        |            | Species or species habitat likely to occur within area |
| <a href="#">Ardenna carneipes</a><br>Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]   |            | Species or species habitat likely to occur within area |
| <a href="#">Diomedea amsterdamensis</a><br>Amsterdam Albatross [64405]                           | Endangered | Species or species                                     |

| Name                                                                                                 | Threatened  | Type of Presence                                                                      |
|------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|
| <a href="#">Diomedea dabbenena</a><br>Tristan Albatross [66471]                                      | Endangered  | habitat may occur within area<br><br>Species or species habitat may occur within area |
| <a href="#">Diomedea epomophora</a><br>Southern Royal Albatross [89221]                              | Vulnerable  | Foraging, feeding or related behaviour likely to occur within area                    |
| <a href="#">Diomedea exulans</a><br>Wandering Albatross [89223]                                      | Vulnerable  | Foraging, feeding or related behaviour likely to occur within area                    |
| <a href="#">Diomedea sanfordi</a><br>Northern Royal Albatross [64456]                                | Endangered  | Foraging, feeding or related behaviour likely to occur within area                    |
| <a href="#">Hydroprogne caspia</a><br>Caspian Tern [808]                                             |             | Foraging, feeding or related behaviour known to occur within area                     |
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060]         | Endangered  | Species or species habitat may occur within area                                      |
| <a href="#">Macronectes halli</a><br>Northern Giant Petrel [1061]                                    | Vulnerable  | Species or species habitat may occur within area                                      |
| <a href="#">Onychoprion anaethetus</a><br>Bridled Tern [82845]                                       |             | Foraging, feeding or related behaviour likely to occur within area                    |
| <a href="#">Phoebetria fusca</a><br>Sooty Albatross [1075]                                           | Vulnerable  | Species or species habitat may occur within area                                      |
| <a href="#">Thalassarche carteri</a><br>Indian Yellow-nosed Albatross [64464]                        | Vulnerable  | Foraging, feeding or related behaviour may occur within area                          |
| <a href="#">Thalassarche cauta</a><br>Shy Albatross [89224]                                          | Endangered  | Foraging, feeding or related behaviour likely to occur within area                    |
| <a href="#">Thalassarche impavida</a><br>Campbell Albatross, Campbell Black-browed Albatross [64459] | Vulnerable  | Species or species habitat may occur within area                                      |
| <a href="#">Thalassarche melanophris</a><br>Black-browed Albatross [66472]                           | Vulnerable  | Species or species habitat may occur within area                                      |
| <a href="#">Thalassarche steadi</a><br>White-capped Albatross [64462]                                | Vulnerable  | Foraging, feeding or related behaviour likely to occur within area                    |
| Migratory Marine Species                                                                             |             |                                                                                       |
| <a href="#">Balaena glacialis australis</a><br>Southern Right Whale [75529]                          | Endangered* | Breeding known to occur within area                                                   |
| <a href="#">Balaenoptera edeni</a><br>Bryde's Whale [35]                                             |             | Species or species habitat may occur within area                                      |
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]                                             | Endangered  | Species or species habitat likely to occur within area                                |
| <a href="#">Caperea marginata</a><br>Pygmy Right Whale [39]                                          |             | Species or species habitat may occur within                                           |

| Name                                                                                                                                   | Threatened            | Type of Presence                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------|
| <a href="#">Carcharhinus longimanus</a><br>Oceanic Whitetip Shark [84108]                                                              |                       | area<br><br>Species or species habitat may occur within area      |
| <a href="#">Carcharodon carcharias</a><br>White Shark, Great White Shark [64470]                                                       | Vulnerable            | Species or species habitat known to occur within area             |
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]                                                                            | Endangered            | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]                                                                                  | Vulnerable            | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]                                               | Endangered            | Breeding likely to occur within area                              |
| <a href="#">Lagenorhynchus obscurus</a><br>Dusky Dolphin [43]                                                                          |                       | Species or species habitat may occur within area                  |
| <a href="#">Manta alfredi</a><br>Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994] |                       | Species or species habitat may occur within area                  |
| <a href="#">Manta birostris</a><br>Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995] |                       | Species or species habitat may occur within area                  |
| <a href="#">Megaptera novaeangliae</a><br>Humpback Whale [38]                                                                          | Vulnerable            | Congregation or aggregation known to occur within area            |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                                                                           | Vulnerable            | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Orcinus orca</a><br>Killer Whale, Orca [46]                                                                                |                       | Species or species habitat may occur within area                  |
| <a href="#">Rhincodon typus</a><br>Whale Shark [66680]                                                                                 | Vulnerable            | Species or species habitat may occur within area                  |
| Migratory Terrestrial Species                                                                                                          |                       |                                                                   |
| <a href="#">Motacilla cinerea</a><br>Grey Wagtail [642]                                                                                |                       | Species or species habitat may occur within area                  |
| Migratory Wetlands Species                                                                                                             |                       |                                                                   |
| <a href="#">Actitis hypoleucos</a><br>Common Sandpiper [59309]                                                                         |                       | Species or species habitat known to occur within area             |
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]                                                                     |                       | Species or species habitat known to occur within area             |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]                                                                               | Endangered            | Species or species habitat known to occur within area             |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]                                                                          | Critically Endangered | Species or species habitat known to occur within area             |
| <a href="#">Calidris melanotos</a><br>Pectoral Sandpiper [858]                                                                         |                       | Species or species habitat may occur within                       |

| Name                                                                                  | Threatened            | Type of Presence                                       |
|---------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|
| <a href="#">Limosa lapponica</a><br>Bar-tailed Godwit [844]                           |                       | Species or species habitat known to occur within area  |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat known to occur within area  |
| <a href="#">Pandion haliaetus</a><br>Osprey [952]                                     |                       | Species or species habitat known to occur within area  |
| <a href="#">Tringa nebularia</a><br>Common Greenshank, Greenshank [832]               |                       | Species or species habitat likely to occur within area |

Other Matters Protected by the EPBC Act

|                   |                                          |
|-------------------|------------------------------------------|
| Commonwealth Land | <a href="#">[ Resource Information ]</a> |
|-------------------|------------------------------------------|

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

| Name                                                    |
|---------------------------------------------------------|
| Commonwealth Land -<br>Defence - BUNBURY TRAINING DEPOT |

|                       |                                          |
|-----------------------|------------------------------------------|
| Listed Marine Species | <a href="#">[ Resource Information ]</a> |
|-----------------------|------------------------------------------|

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

| Name  | Threatened | Type of Presence |
|-------|------------|------------------|
| Birds |            |                  |

|                                                                                |                       |                                                        |
|--------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|
| <a href="#">Actitis hypoleucos</a><br>Common Sandpiper [59309]                 |                       | Species or species habitat known to occur within area  |
| <a href="#">Anous stolidus</a><br>Common Noddy [825]                           |                       | Species or species habitat may occur within area       |
| <a href="#">Anous tenuirostris melanops</a><br>Australian Lesser Noddy [26000] | Vulnerable            | Species or species habitat may occur within area       |
| <a href="#">Apus pacificus</a><br>Fork-tailed Swift [678]                      |                       | Species or species habitat likely to occur within area |
| <a href="#">Ardea alba</a><br>Great Egret, White Egret [59541]                 |                       | Breeding known to occur within area                    |
| <a href="#">Ardea ibis</a><br>Cattle Egret [59542]                             |                       | Species or species habitat may occur within area       |
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]             |                       | Species or species habitat known to occur within area  |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]                       | Endangered            | Species or species habitat known to occur within area  |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]                  | Critically Endangered | Species or species habitat known to occur              |

| Name                                                                                         | Threatened            | Type of Presence                                                    |
|----------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------|
| <a href="#">Calidris melanotos</a><br>Pectoral Sandpiper [858]                               |                       | within area<br><br>Species or species habitat may occur within area |
| <a href="#">Catharacta skua</a><br>Great Skua [59472]                                        |                       | Species or species habitat may occur within area                    |
| <a href="#">Diomedea amsterdamensis</a><br>Amsterdam Albatross [64405]                       | Endangered            | Species or species habitat may occur within area                    |
| <a href="#">Diomedea dabbenena</a><br>Tristan Albatross [66471]                              | Endangered            | Species or species habitat may occur within area                    |
| <a href="#">Diomedea epomophora</a><br>Southern Royal Albatross [89221]                      | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area  |
| <a href="#">Diomedea exulans</a><br>Wandering Albatross [89223]                              | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area  |
| <a href="#">Diomedea sanfordi</a><br>Northern Royal Albatross [64456]                        | Endangered            | Foraging, feeding or related behaviour likely to occur within area  |
| <a href="#">Haliaeetus leucogaster</a><br>White-bellied Sea-Eagle [943]                      |                       | Species or species habitat known to occur within area               |
| <a href="#">Halobaena caerulea</a><br>Blue Petrel [1059]                                     | Vulnerable            | Species or species habitat may occur within area                    |
| <a href="#">Limosa lapponica</a><br>Bar-tailed Godwit [844]                                  |                       | Species or species habitat known to occur within area               |
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060] | Endangered            | Species or species habitat may occur within area                    |
| <a href="#">Macronectes halli</a><br>Northern Giant Petrel [1061]                            | Vulnerable            | Species or species habitat may occur within area                    |
| <a href="#">Merops ornatus</a><br>Rainbow Bee-eater [670]                                    |                       | Species or species habitat may occur within area                    |
| <a href="#">Motacilla cinerea</a><br>Grey Wagtail [642]                                      |                       | Species or species habitat may occur within area                    |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]        | Critically Endangered | Species or species habitat known to occur within area               |
| <a href="#">Pachyptila turtur</a><br>Fairy Prion [1066]                                      |                       | Species or species habitat likely to occur within area              |
| <a href="#">Pandion haliaetus</a><br>Osprey [952]                                            |                       | Species or species habitat known to occur within area               |
| <a href="#">Phoebetria fusca</a><br>Sooty Albatross [1075]                                   | Vulnerable            | Species or species habitat may occur within area                    |

| Name                                                                                                                          | Threatened  | Type of Presence                                                   |
|-------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------|
| <a href="#">Pterodroma mollis</a><br>Soft-plumaged Petrel [1036]                                                              | Vulnerable  | Species or species habitat may occur within area                   |
| <a href="#">Puffinus assimilis</a><br>Little Shearwater [59363]                                                               |             | Foraging, feeding or related behaviour known to occur within area  |
| <a href="#">Puffinus carneipes</a><br>Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]                                |             | Species or species habitat likely to occur within area             |
| <a href="#">Rostratula benghalensis (sensu lato)</a><br>Painted Snipe [889]                                                   | Endangered* | Species or species habitat likely to occur within area             |
| <a href="#">Sterna anaethetus</a><br>Bridled Tern [814]                                                                       |             | Foraging, feeding or related behaviour likely to occur within area |
| <a href="#">Sterna caspia</a><br>Caspian Tern [59467]                                                                         |             | Foraging, feeding or related behaviour known to occur within area  |
| <a href="#">Thalassarche carteri</a><br>Indian Yellow-nosed Albatross [64464]                                                 | Vulnerable  | Foraging, feeding or related behaviour may occur within area       |
| <a href="#">Thalassarche cauta</a><br>Shy Albatross [89224]                                                                   | Endangered  | Foraging, feeding or related behaviour likely to occur within area |
| <a href="#">Thalassarche impavida</a><br>Campbell Albatross, Campbell Black-browed Albatross [64459]                          | Vulnerable  | Species or species habitat may occur within area                   |
| <a href="#">Thalassarche melanophris</a><br>Black-browed Albatross [66472]                                                    | Vulnerable  | Species or species habitat may occur within area                   |
| <a href="#">Thalassarche steadi</a><br>White-capped Albatross [64462]                                                         | Vulnerable  | Foraging, feeding or related behaviour likely to occur within area |
| <a href="#">Thinornis rubricollis</a><br>Hooded Plover [59510]                                                                |             | Species or species habitat known to occur within area              |
| <a href="#">Tringa nebularia</a><br>Common Greenshank, Greenshank [832]                                                       |             | Species or species habitat likely to occur within area             |
| Fish                                                                                                                          |             |                                                                    |
| <a href="#">Acentronura australe</a><br>Southern Pygmy Pipehorse [66185]                                                      |             | Species or species habitat may occur within area                   |
| <a href="#">Campichthys galei</a><br>Gale's Pipefish [66191]                                                                  |             | Species or species habitat may occur within area                   |
| <a href="#">Heraldia nocturna</a><br>Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227] |             | Species or species habitat may occur within area                   |
| <a href="#">Hippocampus angustus</a><br>Western Spiny Seahorse, Narrow-bellied Seahorse [66234]                               |             | Species or species habitat may occur within area                   |
| <a href="#">Hippocampus breviceps</a><br>Short-head Seahorse, Short-snouted Seahorse [66235]                                  |             | Species or species habitat may occur within area                   |

| Name                                                                                                                          | Threatened | Type of Presence                                 |
|-------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------|
| <a href="#">Hippocampus subelongatus</a><br>West Australian Seahorse [66722]                                                  |            | Species or species habitat may occur within area |
| <a href="#">Histiogamphelus cristatus</a><br>Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]           |            | Species or species habitat may occur within area |
| <a href="#">Lissocampus caudalis</a><br>Australian Smooth Pipefish, Smooth Pipefish [66249]                                   |            | Species or species habitat may occur within area |
| <a href="#">Lissocampus fatiloquus</a><br>Prophet's Pipefish [66250]                                                          |            | Species or species habitat may occur within area |
| <a href="#">Lissocampus runa</a><br>Javelin Pipefish [66251]                                                                  |            | Species or species habitat may occur within area |
| <a href="#">Maroubra perserrata</a><br>Sawtooth Pipefish [66252]                                                              |            | Species or species habitat may occur within area |
| <a href="#">Mitotichthys meraculus</a><br>Western Crested Pipefish [66259]                                                    |            | Species or species habitat may occur within area |
| <a href="#">Nannocampus subosseus</a><br>Bonyhead Pipefish, Bony-headed Pipefish [66264]                                      |            | Species or species habitat may occur within area |
| <a href="#">Phycodurus eques</a><br>Leafy Seadragon [66267]                                                                   |            | Species or species habitat may occur within area |
| <a href="#">Phyllopteryx taeniolatus</a><br>Common Seadragon, Weedy Seadragon [66268]                                         |            | Species or species habitat may occur within area |
| <a href="#">Pugnaso curtirostris</a><br>Pugnose Pipefish, Pug-nosed Pipefish [66269]                                          |            | Species or species habitat may occur within area |
| <a href="#">Solegnathus lettiensis</a><br>Gunther's Pipehorse, Indonesian Pipefish [66273]                                    |            | Species or species habitat may occur within area |
| <a href="#">Stigmatopora argus</a><br>Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]                               |            | Species or species habitat may occur within area |
| <a href="#">Stigmatopora nigra</a><br>Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]                         |            | Species or species habitat may occur within area |
| <a href="#">Urocampus carinirostris</a><br>Hairy Pipefish [66282]                                                             |            | Species or species habitat may occur within area |
| <a href="#">Vanacampus margaritifer</a><br>Mother-of-pearl Pipefish [66283]                                                   |            | Species or species habitat may occur within area |
| <a href="#">Vanacampus phillipi</a><br>Port Phillip Pipefish [66284]                                                          |            | Species or species habitat may occur within area |
| <a href="#">Vanacampus poecilolaemus</a><br>Longsnout Pipefish, Australian Long-snout Pipefish, Long-snouted Pipefish [66285] |            | Species or species habitat may occur within area |

| Name                                                                                     | Threatened | Type of Presence                                                  |
|------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------|
| <a href="#">Arctocephalus forsteri</a><br>Long-nosed Fur-seal, New Zealand Fur-seal [20] |            | Species or species habitat may occur within area                  |
| <a href="#">Neophoca cinerea</a><br>Australian Sea-lion, Australian Sea Lion [22]        | Endangered | Species or species habitat may occur within area                  |
| Reptiles                                                                                 |            |                                                                   |
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]                              | Endangered | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]                                    | Vulnerable | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768] | Endangered | Breeding likely to occur within area                              |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                             | Vulnerable | Foraging, feeding or related behaviour known to occur within area |
| Whales and other Cetaceans                                                               |            | [ <a href="#">Resource Information</a> ]                          |
| Name                                                                                     | Status     | Type of Presence                                                  |
| Mammals                                                                                  |            |                                                                   |
| <a href="#">Balaenoptera acutorostrata</a><br>Minke Whale [33]                           |            | Species or species habitat may occur within area                  |
| <a href="#">Balaenoptera edeni</a><br>Bryde's Whale [35]                                 |            | Species or species habitat may occur within area                  |
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]                                 | Endangered | Species or species habitat likely to occur within area            |
| <a href="#">Caperea marginata</a><br>Pygmy Right Whale [39]                              |            | Species or species habitat may occur within area                  |
| <a href="#">Delphinus delphis</a><br>Common Dophin, Short-beaked Common Dolphin [60]     |            | Species or species habitat may occur within area                  |
| <a href="#">Eubalaena australis</a><br>Southern Right Whale [40]                         | Endangered | Breeding known to occur within area                               |
| <a href="#">Grampus griseus</a><br>Risso's Dolphin, Grampus [64]                         |            | Species or species habitat may occur within area                  |
| <a href="#">Lagenorhynchus obscurus</a><br>Dusky Dolphin [43]                            |            | Species or species habitat may occur within area                  |
| <a href="#">Megaptera novaeangliae</a><br>Humpback Whale [38]                            | Vulnerable | Congregation or aggregation known to occur within area            |
| <a href="#">Orcinus orca</a><br>Killer Whale, Orca [46]                                  |            | Species or species habitat may occur within area                  |
| <a href="#">Stenella attenuata</a><br>Spotted Dolphin, Pantropical Spotted Dolphin [51]  |            | Species or species habitat may occur within area                  |

| Name                                                                                                    | Status | Type of Presence                                       |
|---------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------|
| <a href="#">Tursiops aduncus</a><br>Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418] |        | Species or species habitat likely to occur within area |
| <a href="#">Tursiops truncatus s. str.</a><br>Bottlenose Dolphin [68417]                                |        | Species or species habitat may occur within area       |

Extra Information

|                  |                                          |
|------------------|------------------------------------------|
| Invasive Species | [ <a href="#">Resource Information</a> ] |
|------------------|------------------------------------------|

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

| Name                                                                   | Status | Type of Presence                                       |
|------------------------------------------------------------------------|--------|--------------------------------------------------------|
| Birds                                                                  |        |                                                        |
| Anas platyrhynchos<br>Mallard [974]                                    |        | Species or species habitat likely to occur within area |
| Columba livia<br>Rock Pigeon, Rock Dove, Domestic Pigeon [803]         |        | Species or species habitat likely to occur within area |
| Passer domesticus<br>House Sparrow [405]                               |        | Species or species habitat likely to occur within area |
| Passer montanus<br>Eurasian Tree Sparrow [406]                         |        | Species or species habitat likely to occur within area |
| Streptopelia chinensis<br>Spotted Turtle-Dove [780]                    |        | Species or species habitat likely to occur within area |
| Streptopelia senegalensis<br>Laughing Turtle-dove, Laughing Dove [781] |        | Species or species habitat likely to occur within area |
| Mammals                                                                |        |                                                        |
| Canis lupus familiaris<br>Domestic Dog [82654]                         |        | Species or species habitat likely to occur within area |
| Felis catus<br>Cat, House Cat, Domestic Cat [19]                       |        | Species or species habitat likely to occur within area |
| Feral deer<br>Feral deer species in Australia [85733]                  |        | Species or species habitat likely to occur within area |
| Mus musculus<br>House Mouse [120]                                      |        | Species or species habitat likely to occur within area |

| Name                                                                                                                                                           | Status | Type of Presence                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------|
| Oryctolagus cuniculus<br>Rabbit, European Rabbit [128]                                                                                                         |        | Species or species habitat likely to occur within area |
| Rattus rattus<br>Black Rat, Ship Rat [84]                                                                                                                      |        | Species or species habitat likely to occur within area |
| Sus scrofa<br>Pig [6]                                                                                                                                          |        | Species or species habitat likely to occur within area |
| Vulpes vulpes<br>Red Fox, Fox [18]                                                                                                                             |        | Species or species habitat likely to occur within area |
| Plants                                                                                                                                                         |        |                                                        |
| Anredera cordifolia<br>Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]                |        | Species or species habitat likely to occur within area |
| Asparagus asparagoides<br>Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]                                              |        | Species or species habitat likely to occur within area |
| Asparagus declinatus<br>Bridal Veil, Bridal Veil Creeper, Pale Berry Asparagus Fern, Asparagus Fern, South African Creeper [66908]                             |        | Species or species habitat likely to occur within area |
| Asparagus plumosus<br>Climbing Asparagus-fern [48993]                                                                                                          |        | Species or species habitat likely to occur within area |
| Brachiaria mutica<br>Para Grass [5879]                                                                                                                         |        | Species or species habitat may occur within area       |
| Cenchrus ciliaris<br>Buffel-grass, Black Buffel-grass [20213]                                                                                                  |        | Species or species habitat may occur within area       |
| Chrysanthemoides monilifera<br>Bitou Bush, Boneseed [18983]                                                                                                    |        | Species or species habitat may occur within area       |
| Genista linifolia<br>Flax-leaved Broom, Mediterranean Broom, Flax Broom [2800]                                                                                 |        | Species or species habitat likely to occur within area |
| Genista sp. X Genista monspessulana<br>Broom [67538]                                                                                                           |        | Species or species habitat may occur within area       |
| Olea europaea<br>Olive, Common Olive [9160]                                                                                                                    |        | Species or species habitat may occur within area       |
| Pinus radiata<br>Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]                                                                               |        | Species or species habitat may occur within area       |
| Rubus fruticosus aggregate<br>Blackberry, European Blackberry [68406]                                                                                          |        | Species or species habitat likely to occur within area |
| Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii<br>Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]              |        | Species or species habitat likely to occur within area |
| Solanum elaeagnifolium<br>Silver Nightshade, Silver-leaved Nightshade, White Horse Nettle, Silver-leaf Nightshade, Tomato Weed, White Nightshade, Bull-nettle, |        | Species or species habitat likely to occur within area |

| Name | Status | Type of Presence |
|------|--------|------------------|
|------|--------|------------------|

Prairie-berry, Satansbos, Silver-leaf Bitter-apple,  
Silverleaf-nettle, Trompillo [12323]

# Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

# Coordinates

-33.34287 115.64792

# Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
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- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
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- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.

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## Appendix 3: Conservation Codes

### Western Australia

| Conservation Code | Name                   | Description                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| T                 | Threatened             | Flora or fauna that is rare or likely to become extinct, ranked according to their level of threat using IUCN Red List criteria (Schedules 1-3 of the Wildlife Conservation (Specially Protected Fauna) Notice or the Wildlife Conservation (Rare Flora) Notice)                                                                                                          |
| CR                | Critically endangered  | Species considered to be facing an extremely high risk of extinction within the wild in the immediate future                                                                                                                                                                                                                                                              |
| EN                | Endangered             | Species considered to be facing a very high risk of extinction in the wild in the near future                                                                                                                                                                                                                                                                             |
| VU                | Vulnerable             | Species considered to be facing a high risk of extinction in the wild in the medium-term future                                                                                                                                                                                                                                                                           |
| EX                | Extinct Species        | Species where 'there is no reasonable doubt that the last member of the species has died (Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice or the Wildlife Conservation (Rare Flora) Notice)                                                                                                                                                    |
| EW                | Extinct in the Wild    | Species that are known to only survive in cultivation, in captivity, or as a naturalised population well outside its past range; and it has not been recorded in its known or expected habitat at appropriate seasons anywhere in its past range, despite surveys over a timeframe appropriate to its life cycle and form                                                 |
| MI                | Migratory Species      | Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth (Schedule 5 of the Wildlife Conservation (Specially Protected Fauna) Notice)                                 |
| CD                | Conservation Dependent | Species of special conservation interest (conservation dependent fauna), being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened (Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice)                                                                                              |
| OS                | Specially Protected    | Fauna otherwise in need of special protection to ensure their conservation (Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice)                                                                                                                                                                                                                   |
| P                 | Priority Species       | Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened fauna or |

| Conservation Code | Name           | Description                                                                                                                                                                                                                                                                                                                                |
|-------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |                | flora. Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.                 |
| P1                | Priority One   | Poorly known species – Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either very small or on lands not managed for conservation, such as road verges, urban areas, farmland, active mineral lease and under threat of habitat destruction or degradation. |
| 2                 | Priority Two   | Poorly known species – Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, such as national parks, conservation parks, nature reserves, State forest, vacant Crown land, water reserves and similar.                                        |
| 3                 | Priority Three | Poorly known species – Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat                              |
| 4                 | Priority Four  | Rare or near threatened and other species in need of monitoring.                                                                                                                                                                                                                                                                           |

(Source: Department of Biodiversity, Conservation and Attractions, 2021a)

#### Commonwealth

| Category                     | Description                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------|
| <b>Critically Endangered</b> | Species facing an extremely high risk of extinction in the wild in the immediate future |
| <b>Endangered</b>            | Species facing a very high risk of extinction in the wild in the near future            |
| <b>Vulnerable</b>            | Species facing a high risk of extinction in the wild in the medium term                 |

(Source: Department of Agriculture, Water, and the Environment, 2021b)

## Appendix 4: Flora Species List

| Family         | Species Name                                      | Common Name       |
|----------------|---------------------------------------------------|-------------------|
| Amaryllidaceae | <i>Agapanthus sp.*</i>                            |                   |
| Myrtaceae      | <i>Agonis flexuosa</i>                            | Peppermint        |
| Myrtaceae      | <i>Callistemon citrinus</i> 'Kings Park Special'* | Bottlebrush       |
| Juglandaceae   | <i>Carya illinoensis</i> *                        | Pecan Tree        |
| Myrtaceae      | <i>Corymbia calophylla</i>                        | Marri             |
| Cyperaceae     | <i>Cyperus congestus</i> *                        | Dense Flat-sedge  |
| Fabaceae       | <i>Erythrina x sykesii</i> *                      | Coral Tree        |
| Myrtaceae      | <i>Eucalyptus accedens</i>                        | Powderbark Wandoo |
| Myrtaceae      | <i>Eucalyptus erythrocorys</i> *                  | Illyarrie         |
| Myrtaceae      | <i>Eucalyptus gomphocephala</i>                   | Tuart             |
| Myrtaceae      | <i>Eucalyptus marginata</i>                       | Jarra             |

## Appendix 5: Habitat Tree Locations

| Species                | Common Name | Comments           | Location    |             |
|------------------------|-------------|--------------------|-------------|-------------|
|                        |             |                    | Eastings    | Northings   |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 373991.1553 | 6309719.047 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374059.3975 | 6309916.610 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374029.4818 | 6309711.469 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374065.1521 | 6309903.639 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374108.8405 | 6309718.649 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374058.0336 | 6309911.095 |
| <i>Agonis flexuosa</i> | Peppermint  | Poor Health- Borer | 373976.0437 | 6309695.617 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374038.6570 | 6309927.678 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374040.2103 | 6309935.433 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374021.1604 | 6309837.964 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374190.0378 | 6309892.028 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374065.9681 | 6309953.752 |
| <i>Agonis flexuosa</i> | Peppermint  | Borer              | 374208.9977 | 6309710.258 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374001.5851 | 6309764.158 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374163.2449 | 6309922.214 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374190.8981 | 6309736.704 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374101.1434 | 6309936.566 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 373997.9251 | 6309740.815 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374078.1161 | 6309907.442 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374055.6442 | 6309684.165 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374187.6912 | 6309892.495 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374057.0371 | 6309896.514 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374101.0775 | 6309907.989 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374104.7924 | 6309681.915 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374102.6888 | 6309928.106 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374055.4846 | 6309703.669 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374084.3932 | 6309736.440 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374048.6888 | 6309916.968 |
| <i>Agonis flexuosa</i> | Peppermint  |                    | 374060.0896 | 6309707.114 |

| Species                | Common Name | Comments                | Location    |             |
|------------------------|-------------|-------------------------|-------------|-------------|
|                        |             |                         | Eastings    | Northings   |
| <i>Agonis flexuosa</i> | Peppermint  | Borer                   | 374113.4215 | 6309935.514 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374197.6374 | 6309734.400 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374095.4825 | 6309906.270 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374244.5972 | 6309802.256 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374046.3211 | 6309736.443 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374082.5945 | 6309906.227 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374256.7922 | 6309846.116 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374226.4555 | 6309783.819 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374166.3918 | 6309739.803 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374084.8336 | 6309935.671 |
| <i>Agonis flexuosa</i> | Peppermint  | potential scratch marks | 373979.7324 | 6309735.951 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374030.9601 | 6309897.977 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374178.9856 | 6309736.053 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374087.8054 | 6309740.429 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374119.6894 | 6309904.627 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374240.8607 | 6309811.246 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374163.1465 | 6309739.792 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374157.2765 | 6309934.840 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374105.2644 | 6309729.692 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374199.0253 | 6309899.258 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374019.5598 | 6309754.576 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374061.9274 | 6309683.346 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 373991.7099 | 6309724.396 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374051.3902 | 6309893.987 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374019.1116 | 6309745.843 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374065.0556 | 6309935.103 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374080.3787 | 6309937.476 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374159.9964 | 6309734.844 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374147.9076 | 6309904.092 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 374057.6188 | 6309926.216 |
| <i>Agonis flexuosa</i> | Peppermint  |                         | 373971.2798 | 6309714.005 |

| Species                    | Common Name | Comments                | Location    |             |
|----------------------------|-------------|-------------------------|-------------|-------------|
|                            |             |                         | Eastings    | Northings   |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374038.2143 | 6309911.303 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374044.5471 | 6309911.479 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374069.6396 | 6309726.278 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374093.7164 | 6309712.986 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374132.9336 | 6309915.701 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374033.6735 | 6309734.726 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374091.9450 | 6309907.125 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374095.6265 | 6309717.298 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374243.8204 | 6309797.183 |
| <i>Agonis flexuosa</i>     | Peppermint  | Dead - bee hive present | 374089.0979 | 6309900.472 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374074.3935 | 6309744.697 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374133.5274 | 6309732.885 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374071.0318 | 6309909.866 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374018.3327 | 6309793.790 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374066.1141 | 6309743.036 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374143.3713 | 6309900.151 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374062.4959 | 6309742.896 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 373981.3074 | 6309696.400 |
| <i>Agonis flexuosa</i>     | Peppermint  | Borers                  | 374110.0639 | 6309905.682 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374090.6284 | 6309924.408 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374034.8549 | 6309874.421 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374016.2137 | 6309728.691 |
| <i>Agonis flexuosa</i>     | Peppermint  |                         | 374174.7340 | 6309734.227 |
| <i>Erythrina x sykesii</i> | Coral Tree  |                         | 374261.9743 | 6309858.018 |
| <i>Erythrina x sykesii</i> | Coral Tree  |                         | 374298.4390 | 6309984.474 |
| <i>Erythrina x sykesii</i> | Coral Tree  |                         | 374283.5156 | 6309929.582 |
| <i>Erythrina x sykesii</i> | Coral Tree  |                         | 374277.8194 | 6309909.194 |
| <i>Erythrina x sykesii</i> | Coral Tree  |                         | 374302.8156 | 6309995.93  |
| <i>Erythrina x sykesii</i> | Coral Tree  |                         | 374265.2720 | 6309868.435 |
| <i>Erythrina x sykesii</i> | Coral Tree  |                         | 374273.5811 | 6309899.106 |
| <i>Erythrina x sykesii</i> | Coral Tree  |                         | 374297.1480 | 6309975.729 |

| Species                         | Common Name     | Comments            | Location    |             |
|---------------------------------|-----------------|---------------------|-------------|-------------|
|                                 |                 |                     | Eastings    | Northings   |
| <i>Erythrina x sykesii</i>      | Coral Tree      |                     | 374286.2548 | 6309937.352 |
| <i>Erythrina x sykesii</i>      | Coral Tree      |                     | 374280.9951 | 6309919.392 |
| <i>Erythrina x sykesii</i>      | Coral Tree      |                     | 374288.7671 | 6309945.771 |
| <i>Erythrina x sykesii</i>      | Coral Tree      |                     | 374290.6815 | 6309956.978 |
| <i>Eucalyptus sp.*</i>          |                 |                     | 374016.5514 | 6309822.809 |
| <i>Eucalyptus sp.*</i>          |                 |                     | 374013.4912 | 6309786.925 |
| <i>Eucalyptus sp.*</i>          |                 |                     | 374004.7438 | 6309780.444 |
| <i>Eucalyptus sp.*</i>          |                 |                     | 374015.6616 | 6309809.627 |
| <i>Eucalyptus marginata</i>     | Jarrah          | Poor health - Dying | 374028.7801 | 6309775.103 |
| <i>Eucalyptus marginata</i>     | Jarrah          |                     | 374064.8139 | 6309725.408 |
| <i>Eucalyptus marginata</i>     | Jarrah          |                     | 374040.2650 | 6309741.396 |
| <i>Eucalyptus marginata</i>     | Jarrah          |                     | 374084.3597 | 6309712.585 |
| <i>Eucalyptus marginata</i>     | Jarrah          |                     | 374043.8534 | 6309724.608 |
| <i>Corymbia calophylla</i>      | Marri           |                     | 374016.8704 | 6309740.595 |
| <i>Corymbia calophylla</i>      | Marri           |                     | 374011.5593 | 6309733.848 |
| <i>Melaleuca raphiophylla</i>   | Swamp Paperbark |                     | 374217.6291 | 6309711.240 |
| <i>Melaleuca raphiophylla</i>   | Swamp Paperbark |                     | 374225.7517 | 6309768.310 |
| <i>Melaleuca raphiophylla</i>   | Swamp Paperbark |                     | 374141.2019 | 6309718.635 |
| <i>Melaleuca raphiophylla</i>   | Swamp Paperbark |                     | 374215.4153 | 6309703.881 |
| <i>Eucalyptus gomphocephala</i> | Tuart           |                     | 374225.5748 | 6309755.480 |
| <i>Eucalyptus gomphocephala</i> | Tuart           | Small hollows       | 373995.3625 | 6309731.495 |
| <i>Eucalyptus gomphocephala</i> | Tuart           |                     | 374009.1826 | 6309830.323 |
| <i>Eucalyptus gomphocephala</i> | Tuart           |                     | 374026.4246 | 6309879.561 |
| <i>Eucalyptus gomphocephala</i> | Tuart           |                     | 374131.6583 | 6309694.159 |
| <i>Eucalyptus gomphocephala</i> | Tuart           | Small hollows       | 374109.3718 | 6309737.821 |
| <i>Eucalyptus gomphocephala</i> | Tuart           |                     | 374205.8658 | 6309747.211 |
| <i>Eucalyptus gomphocephala</i> | Tuart           |                     | 374030.9756 | 6309687.758 |
| <i>Eucalyptus gomphocephala</i> | Tuart           |                     | 374178.5044 | 6309700.979 |
| <i>Eucalyptus gomphocephala</i> | Tuart           |                     | 374217.4942 | 6309757.736 |
| <i>Eucalyptus gomphocephala</i> | Tuart           |                     | 374004.5045 | 6309688.377 |
| <i>Eucalyptus gomphocephala</i> | Tuart           |                     | 374059.5670 | 6309898.752 |

| Species                         | Common Name | Comments       | Location    |             |
|---------------------------------|-------------|----------------|-------------|-------------|
|                                 |             |                | Eastings    | Northings   |
| <i>Eucalyptus gomphocephala</i> | Tuart       |                | 374008.5125 | 6309696.940 |
| <i>Eucalyptus gomphocephala</i> | Tuart       | Small hollows  | 373965.9342 | 6309721.918 |
| <i>Eucalyptus gomphocephala</i> | Tuart       | Hollows - Dead | 374228.8232 | 6309752.851 |
| <i>Eucalyptus gomphocephala</i> | Tuart       | Small hollows  | 374136.4320 | 6309727.891 |
| <i>Eucalyptus gomphocephala</i> | Tuart       | Small hollows  | 374123.0896 | 6309722.003 |
| <i>Eucalyptus gomphocephala</i> | Tuart       | Small hollows  | 374156.7945 | 6309736.293 |
| <i>Eucalyptus gomphocephala</i> | Tuart       |                | 374191.0753 | 6309706.205 |
| <i>Eucalyptus gomphocephala</i> | Tuart       |                | 374018.1891 | 6309840.876 |
| <i>Eucalyptus gomphocephala</i> | Tuart       | Small hollows  | 373995.3625 | 6309731.495 |
| <i>Eucalyptus gomphocephala</i> | Tuart       |                | 374190.5997 | 6309906.448 |
| <i>Eucalyptus gomphocephala</i> | Tuart       |                | 373990.3994 | 6309685.958 |
| <i>Eucalyptus gomphocephala</i> | Tuart       | Small hollows  | 373987.9385 | 6309700.027 |
| <i>Eucalyptus gomphocephala</i> | Tuart       | Two Hollows    | 374024.7746 | 6309713.489 |
| <i>Eucalyptus gomphocephala</i> | Tuart       |                | 373990.6207 | 6309755.381 |
| <i>Eucalyptus gomphocephala</i> | Tuart       |                | 374219.2955 | 6309739.154 |
| <i>Eucalyptus gomphocephala</i> | Tuart       | Dead           | 374016.3806 | 6309742.266 |