

# HEPBURN AVENUE AND BELLEFIN DRIVE ROUNDABOUT

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## RECONNAISSANCE FLORA AND VEGETATION SURVEY

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The logo for pgv ENVIRONMENTAL is located in the bottom right corner. It features the letters 'pgv' in a large, bold, white sans-serif font, with the word 'ENVIRONMENTAL' in a smaller, all-caps, white sans-serif font to its right. The background of the bottom half of the page is a solid orange color with a subtle, curved white line graphic that sweeps across the width of the page, framing the logo.

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# 1 INTRODUCTION

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## 1.1 Background

The City of Swan is planning to construct a roundabout at the intersection of Hepburn Avenue and Bellefin Drive (the site) in the City of Swan (Figure 1). The two roads currently meet at a T intersection with residential development on land to the south of the intersection and undeveloped land to the north (Figure 2).

The proposed roundabout was considered to potentially impact on areas of native vegetation within the road reserves as shown on the City's plan (Appendix 1).

PGV Environmental was commissioned by the City of Swan to undertake a Reconnaissance Flora and Vegetation survey of the site to provide information to assist in the assessment of a Clearing Permit Application for any areas of native vegetation.

## 1.2 Scope of Works

A Reconnaissance Flora and Vegetation Survey was undertaken by PGV Environmental in accordance with the *EPA Technical Guidance: Flora and Vegetation Surveys* (EPA, 2016). The survey included the following:

- Desktop search and review of the Department of Biodiversity, Conservation and Attractions (DBCA) Naturemap database and Threatened Ecological Communities database on National Map;
- A search of the Commonwealth Department of Agriculture, Water and the Environment (DAWE) Protected Matters Search Tool to identify species potentially occurring within the area that are protected under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act);
- Examination of historic and recent aerial photography and contour and soil maps to provisionally identify vegetation types and condition;
- Field reconnaissance survey; and
- Description and mapping of vegetation types and vegetation condition.



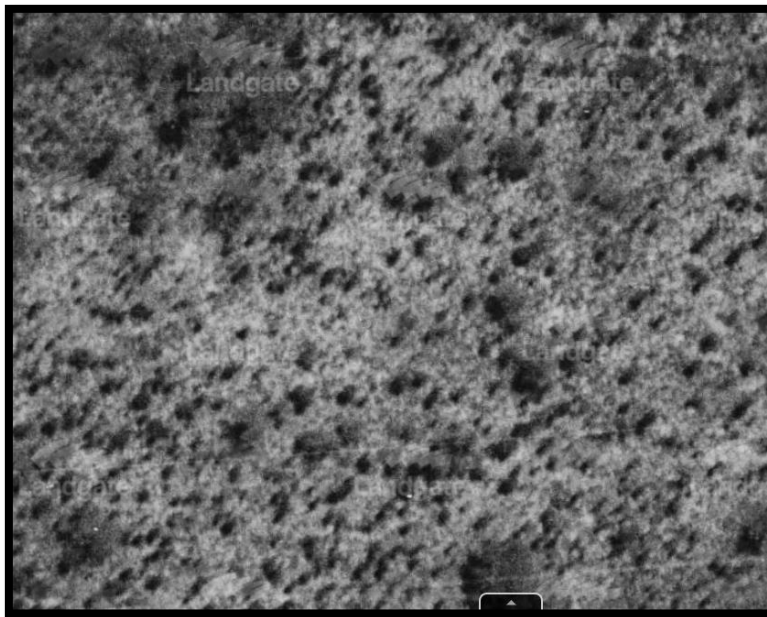
## 2 EXISTING ENVIRONMENT

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### 2.1 Land Use

The site was completely vegetated with native woodland on dry sandy soils as shown in the earliest aerial photography from 1953 (Landgate, 2020) (Plate 1).

**Plate 1: Historical Aerial Photography from 1953 (Landgate, 2020)**



In aerial photography from 1965 the site appears to have been almost completely cleared of trees with some areas of shrubs still visible (Plate 2).

**Plate 2: Historical Aerial Photography from 1965 (Landgate, 2020)**



The area remained largely rural until development occurred between 1989 and 1995 (Landgate, 2020) with Bellefin Drive under construction at this time (Plate 3). The roundabout site remains largely cleared with some areas of shrubs in the western and eastern end.

**Plate 3: Historical Aerial Photography from 1995 (Landgate, 2020)**



The site was cleared further when Hepburn Avenue was constructed between 2008 and 2010 with all vegetation to the south of Hepburn Avenue being cleared as well as the area to the north-east (Landgate, 2020) (Plate 4). Some vegetation occurs in the north-west and south-east part of the road reserve on the photo. The vegetation in the south-east is just outside the survey area for the roundabout.

**Plate 4: Historical Aerial Photography from 2010 (Landgate, 2020)**



## 2.2 Topography

The site is flat between approximately 36 to 37m Australian Height Datum (AHD) (Figure 2).

## 2.3 Geology and Soils

The site is mapped as part of the Bassendean System and consists of very low relief, leached, grey siliceous Pleistocene sand dunes, intervening sandy and clayey swamps and gently undulating plains (Bolland, 1998). These soils are very leached, infertile and mildly acidic (DPIRD, 2020).

Two Phases of the Bassendean soils are mapped on the site by the Department of Primary Industries Regional Development (DPIRD) as follows:

Bassendean Joel Phase (212Bs\_B1) which are poorly drained depressions with humus podzols. (DPIRD, 2020). This soil phase is mapped over the majority of the site.

Bassendean Drainage Lines Phase (212Bs\_B4) which are broad, shallow channels with peaty soils (DPIRD, 2020). This soil phase is mapped on the north-western tip of the site.

## 2.4 Hydrology

Groundwater is at approximately 32mAHD and flows to the west (DWER, 2020). Groundwater is approximately 4 to 5m below ground surface (National Map, 2020).

## 2.5 Wetlands

Two wetlands are mapped on the site including part of Multiple Use Palusplain Unique Feature Identifier (UFI) 8454 to the west and UFI 15029 to the east (Plate 5) (National Map, 2020).

**Plate 5: Wetland Mapping on the site (National Map, 2020)**



### 3 METHODOLOGY

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A Reconnaissance Flora and Vegetation Survey was undertaken in accordance with EPA Technical Guidance *Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA, 2016). Desktop studies were undertaken to identify potential threatened species and communities that may occur on the site.

A site reconnaissance survey was conducted by Dr Paul van der Moezel from PGV Environmental on 12 June 2020. The survey included walking through the survey area to record vegetation types and vegetation condition. One relevé plot was sampled in native vegetation on the site.

## 4 RESULTS

### 4.1 Desktop Studies

#### 4.1.1 Flora Database Searches

A search of the DBCA Flora Database, Naturemap (Appendix 2) (DBCA, 2020) and the EPBC Act Protected Matters Search Tool (Appendix 3) (DAWE, 2020) indicates that a number of species that are listed as Endangered, Threatened or Priority are identified as potentially being located the site. The results from these database searches are shown in Table 1.

**Table 1: Conservation Significant Flora known to occur near the Site**

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act
<i>Caladenia huegelii</i>	King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid	Schedule 1	Endangered
<i>Calectasia cyanea</i>	Blue Tinsel Lily	Schedule 1	Critically Endangered
<i>Drakaea elastica</i>	Glossy-leafed Hammer Orchid	Schedule 1	Endangered
<i>Eucalyptus x balanites</i>	Cadda Road Mallee	Schedule 1	Endangered
<i>Synaphea</i> sp. Fairbridge Farm (D Papenfus 696)	Selena's Synaphea	Schedule 1	Critically Endangered
<i>Thelymitra dedmaniarum</i>	Cinnamon Sun-orchid	Schedule 1	Endangered
<i>Trithuria occidentalis</i> ( <i>Hydatella dioica</i> )	Swan Hydatella	Schedule 1	Endangered
<i>Diuris purdiei</i>	Purdie's Donkey-orchid	Schedule 2	Endangered
<i>Drakaea micrantha</i>	Dwarf Hammer-orchid	Schedule 2	Vulnerable
<i>Grevillea curviloba</i> subsp. <i>incurva</i>	Narrow curved-leaf Grevillea	Schedule 2	Endangered
<i>Lepidosperma rostratum</i>	Beaked Lepidosperma	Schedule 2	Endangered
<i>Thelymitra stellata</i>	Star Sun-orchid	Schedule 2	Endangered
<i>Andersonia gracilis</i>	Slender Andersonia	Schedule 3	Endangered
<i>Anigozanthos viridis</i> subsp. <i>terraspectans</i>	Dwarf Green Kangaroo Paw	Schedule 3	Vulnerable
<i>Diuris drummondii</i>	Tall Donkey Orchid	Schedule 3	Vulnerable
<i>Diuris micrantha</i>	Dwarf Bee-orchid	Schedule 3	Vulnerable
<i>Eleocharis keigheryi</i>	Keighery's Eleocharis	Schedule 3	Vulnerable
<i>Bolboschoenus fluviatilis</i>	River Bulrush	Priority 1	
<i>Drosera patens</i>		Priority 1	
<i>Drosera x sidjamesii</i>		Priority 1	
<i>Hydrocotyle striata</i>		Priority 1	
<i>Stachystemon</i> sp. Keysbrook (R. Archer 17/11/99) now known as <i>Stachystemon exilis</i>	Slender Stachystemon	Priority 1	
<i>Acacia benthamii</i>		Priority 2	
<i>Poranthera moorokatta</i>		Priority 2	
<i>Amanita carneiphyllo</i>	Miller's Pink-Gilled Lepidella	Priority 3	
<i>Amanita fibrilloses</i>		Priority 3	



Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act
<i>Amanita preissii</i>	Cinnamon-ring Lepidella	Priority 3	
<i>Byblis gigantea</i>	Rainbow Plant	Priority 3	
<i>Carex tereticaulis</i>		Priority 3	
<i>Cyathochaeta teretifolia</i>		Priority 3	
<i>Dampiera triloba</i>		Priority 3	
<i>Isopogon drummondii</i>		Priority 3	
<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>		Priority 3	
<i>Meionectes tenuifolia</i>		Priority 3	
<i>Myriophyllum echinatum</i>		Priority 3	
<i>Stylidium asteroideum</i>	Star Triggerplant	Priority 3	
<i>Stylidium paludicola</i>		Priority 3	
<i>Styphelia filifolia</i>		Priority 3	
<i>Anigozanthos humilis</i> subsp. <i>chrysanthus</i>	Golden Cats Paw	Priority 4	
<i>Darwinia pimelioides</i>		Priority 4	
<i>Drosera occidentalis</i>	Western Sundew	Priority 4	
<i>Hydrocotyle lemnaeoides</i>	Aquatic Pennywort	Priority 4	
<i>Hypolaena robusta</i>		Priority 4	
<i>Jacksonia sericea</i>	Waldjumi	Priority 4	
<i>Stylidium longitubum</i>	Jumping Jacks	Priority 4	
<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		Priority 4	

Definitions of the Conservation Codes are in Appendix 4.

#### 4.1.2 Vegetation Complex

The native vegetation is part of the Southern River Vegetation Complex which is described as open woodland of *Corymbia calophylla* (Marri) - *Eucalyptus marginata* (Jarrah) - *Banksia* species with fringing woodland of *Eucalyptus rudis* (Flooded Gum) - *Melaleuca raphiophylla* (Swamp Paperbark) along creek beds (Hedde *et al.*, 1980).

#### 4.1.3 TEC/PEC Database Searches

A search of DBCA's Threatened (TEC) and Priority Ecological Communities (PEC) database was conducted using National Map (National Map, 2020). The site is within the buffer of an occurrence of a mapped area of Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region. A search of database searches in the area identified two Endangered TECs as listed in Western Australia and four Priority 3 PECs. Two conservation significant Ecological Communities were identified in the EPBC Act Protected Matters Search Tool (Table 2).

**Table 2: TEC and PECs identified within 5km of the site**

Number	Description	Conservation Status in WA	Status under the EPBC Act
SCP20a	<i>Banksia attenuata</i> woodlands over species rich dense shrublands	Endangered	Endangered
SCP02	Southern wet shrublands, Swan Coastal Plain	Endangered	
Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered
Tuart Woodland	Tuart ( <i>Eucalyptus gomphocephala</i> ) Woodlands and Forests of the Swan Coastal Plain ecological community	Priority 3	Critically Endangered
SCP21c	Low lying <i>Banksia attenuata</i> woodlands or shrublands	Priority 3	Endangered as part of the Banksia WL SCP
SCP22	<i>Banksia ilicifolia</i> woodlands	Priority 3	Endangered as part of the Banksia WL SCP
SCP23b	Swan Coastal Plain <i>Banksia attenuata</i> - <i>Banksia menziesii</i> woodlands	Priority 3	Endangered as part of the Banksia WL SCP

## 4.2 Site Reconnaissance

### 4.2.1 Flora

A total of 5 native species that are considered to be natural to the site were recorded in the survey area as follows.

- *Acacia saligna*
- *Banksia dallanneyi*
- *Daviesia angulata*
- *Macrozamia riedlei*
- *Ptilotus polystachyus*
- *Xanthorrhoea preissii*

Several other native species were recorded that are considered to be planted, particularly *Olearia axillaris* and *Conostylis candicans* as well as some *Grevillea crithmifolia* and *Scaevola crassifolia*.

### 4.2.2 Vegetation Types

The Reconnaissance survey identified one native vegetation type on the site as described in Table 3 and shown on Figure 3.

In addition, two individual *Macrozamia riedlei* (Zamia Palm) plants were recorded that are considered to potentially be remnant native shrubs rather than having been planted.

The other areas of the site that contain vegetation are either exotic species or native species that have been planted as landscaping after the roads were constructed (Plate 6).

**Plate 6: Landscaping in the road reserve**





These areas are not considered to be native vegetation under the definition of the *Environmental Protection Act, 1986* (EP Act) as according to Section 5A of the EP Act “*native vegetation*” does not include vegetation that is intentionally sown, planted or propagated unless:

- *the vegetation was sown, planted or propagated as required under the EP Act or another written law; or*
- *it is declared to be native vegetation under the regulations.*

The native species used in the landscaping were not planted as a result of an environmental approval.



**Table 3: Vegetation Types on the Site**

Vegetation Type	Description	Photograph
<b>Xp</b> <i>Xanthorrhoea preissii</i> Low Shrubland over weeds	<p>This vegetation type occurred in strips along the northwestern road reserve for Hepburn Avenue. No trees were present. The <i>Xanthorrhoea preissii</i> shrubs were up to 1m high and an average of 20% cover. Very few to no native plants were present. Dominant weed species included Veldtgrass (<i>Ehrharta calycina</i>), Couch Grass (<i>Cynodon dactylon</i>), <i>Erodium botrys</i>, <i>Ursinia anthemoides</i>, <i>Gladiolus caryophyllaceus</i> and <i>Briza maxima</i>.</p>	 <p>A photograph showing a dense patch of Xanthorrhoea preissii shrubs growing in a road reserve. The shrubs are green and spiky, with some yellowish-brown grasses interspersed. In the background, a paved road and some distant trees are visible under a cloudy sky.</p>
<b>Mr</b> <i>Macrozamia riedlei</i> plants	<p>Two individual <i>Macrozamia riedlei</i> shrubs were recorded on the site. The plant in the northern road reserve is likely to be natural to the area rather than planted. The plant in the Hepburn Avenue median strip was either planted or has naturally regenerated on the site.</p>	 <p>A photograph of a single Macrozamia riedlei plant growing in a sandy, open area of a road reserve. The plant is a small, spiky shrub. The ground is light-colored and sandy, with some sparse grass. In the background, there are trees and a road.</p>

### 4.2.3 Vegetation Condition

The condition of the vegetation was assessed according to the system of Keighery and described in Bush Forever (Government of Western Australia, 2000) (Table 4).

**Table 4: Vegetation Condition Rating Scale.**

Condition	Description
Pristine	Pristine or nearly so, no obvious signs of disturbance.
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.
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.
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.
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.
Completely Degraded	The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These 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.

The condition of the vegetation ranged from Completely Degraded over most of the site to Degraded in the small areas of the *Xanthorrhoea preissii* Low Shrubland (Plate 7) (Figure 4).

**Plate 7: Degraded vegetation**



Common weed species included Veldtgrass (*Ehrharta calycina*), Couch Grass (*Cynodon dactylon*), *Erodium botrys*, *Ursinia anthemoides*, *Gladiolus caryophyllaceus* and *Briza maxima*.

Some semi-mature introduced River Red Gum (*Eucalyptus camaldulensis*) and non-native shrubs (*Acacia iteaphylla*, *Leptospermum laevigatum*) occur at the southwestern corner of the current intersection.

### 4.3 Conservation Significance of Flora and Vegetation

#### 4.3.1 Flora

Based on the survey results the likelihood of Threatened and Priority flora occurring in the survey area is shown in Table 5.

No conservation significant flora species were recorded during the site reconnaissance survey.

In summary, given the Degraded to Completely Degraded nature of the vegetation and the very small amount of native vegetation on the site the potential for any conservation significant species occurring on the site is Highly Unlikely to No potential.

No follow-up survey in spring is required to establish whether any Threatened ephemeral species such as orchids occur on the site.

**Table 5: Likelihood of Identified Significant Flora Species Occurring on the Site**

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Caladenia huegelii</i>	King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid	The Grand Spider-orchid prefers sand or clay loam. This species generally does not survive in disturbed areas.	Highly Unlikely – The site is too disturbed for this species
<i>Calectasia cyanea</i>	Blue Tinsel Lily	The Blue Tinsel Lily prefers white, grey or yellow sand or gravel.	No – The species was not recorded on the site during the survey
<i>Drakaea elastica</i>	Glossy-leafed Hammer Orchid	The Glossy-leafed Hammer Orchid prefers low-lying situations adjoining winter-wet swamps. This species does not survive in disturbed areas.	Highly Unlikely – the site is not in the known species range and there is no lateritic gravel.
<i>Eucalyptus x balanites</i>	Cadda Road Mallee	The Cadda Road Mallee prefers sandy soils with lateritic gravel.	No – The site does not contain lateritic gravel
<i>Synaphea</i> sp. Fairbridge Farm (D Papenfus 696)	Selena's Synaphea	Selena's Synaphea occurs in sandy with lateritic pebbles near winter-wet flats, in low woodland with weedy grasses.	No – The site does not contain lateritic gravel

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Thelymitra dedmaniarum</i>	Cinnamon Sun-orchid	Cinnamon sun orchid is known from only two locations in the Gidgegannup area. It is confined to open wandoo woodland on red-brown sandy loam associated with dolerite and granite outcropping (DEC, 2012).	No – The site does not contain habitat for this species
<i>Trithuria occidentalis</i> ( <i>Hydatella dioica</i> )	Swan Hydatella	Swan Hydatella grows partly submerged on the edge of shallow, winter-wet claypans in very open shrubland of Robin Redbreast Bush ( <i>Melaleuca lateritica</i> ) and numerous annual herbs.	No – there is no permanent water on the site
<i>Diuris purdiei</i>	Purdie's Donkey-orchid	Purdie's Donkey Orchid occurs in grey-black sand in moist winter-wet swamps.	No – The site is not moist winter-wet
<i>Drakaea micrantha</i>	Dwarf Hammer-orchid	Dwarf Hammer-orchid occurs in grey sands over dark, grey to blackish, sandy clay-loam substrates in winter wet depressions or swamps.	No – The site is not a winter-wet depression or swamp
<i>Grevillea curviloba</i> subsp. <i>incurva</i>	Narrow curved-leaf Grevillea	Narrow curved-leaf Grevillea prefers sand, sandy loam in winter-wet heath.	No – The species was not recorded during the site survey
<i>Lepidosperma rostratum</i>	Beaked Lepidosperma	Beaked Lepidosperma is found in peaty sand, clay.	No – not recorded in the area and the site does not contain peaty sandy clay
<i>Thelymitra stellata</i>	Star Sun-orchid	The Star Sun-orchid prefers sand, gravel or lateritic loam.	No – not suitable habitat on the site
<i>Andersonia gracilis</i>	Slender Andersonia	Slender Andersonia occurs in white/grey sand, sandy clay, gravelly loam in winter-wet areas, near swamps.	No – The site is not a winter-wet depression or swamp
<i>Anigozanthos viridis</i> subsp. <i>terraspectans</i>	Dwarf Green Kangaroo Paw	The Dwarf Green Kangaroo Paw occurs on grey sand, clay loam in winter-wet depressions.	No – The site is not a winter-wet depression
<i>Diuris drummondii</i>	Tall Donkey Orchid	The Tall Donkey Orchid grows in low-lying depressions, swamps.	Highly Unlikely – The site is not a low-lying depression or swamp

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Diuris micrantha</i>	Dwarf Bee-orchid	The Dwarf Bee-orchid is usually found on cleared firebreaks or open sandy patches that have been disturbed with in Jarrah Banksia woodland or thickets of Spearwood ( <i>Kunzea ericifolia/glabrescens</i> ) (Williams et al., 2001).	No – not suitable vegetation type on the site
<i>Eleocharis keigheryi</i>	Keighery's Eleocharis	Keighery's Eleocharis occurs in clay, sandy loam and is emergent in freshwater: creeks, claypans.	No – not suitable habitat on the site
<i>Bolboschoenus fluvialis</i>	River Bulrush	River Bulrush occurs on the margins of wetlands and rivers.	No – not suitable habitat on the site
<i>Drosera patens</i>		<i>Drosera patens</i> occurs in sandy soils on the margins of winter-wet depressions, swamps and lakes.	Highly Unlikely – the site is too disturbed and is not on the margin of a wetland
<i>Drosera x sidjamesii</i>		<i>Drosera x sidjamesii</i> grows in peaty sand along lake margins, close to winter high-water line.	No – not suitable habitat
<i>Hydrocotyle striata</i>		<i>Hydrocotyle striata</i> occurs in clay near springs.	No – not suitable habitat
<i>Stachystemon</i> sp. Keysbrook (R. Archer 17/11/99) now known as <i>Stachystemon exilis</i>	Slender Stachystemon	<i>Stachystemon</i> sp. Keysbrook grows in grey sand with thin litter layer (Western Australian Herbarium, 1999) and is generally in association with open, low-lying Banksia woodland in which <i>B. ilicifolia</i> is a significant component of the upper canopy (Hislop and Davies, 2020).	No – not suitable habitat
<i>Acacia benthamii</i>		<i>Acacia benthamii</i> grows on sand, typically on limestone breakaways	No – not suitable habitat and not recorded in the survey
<i>Poranthera moorokatta</i>		<i>Poranthera moorokatta</i> grows in white silica sand and has been recorded in Banksia woodland and in a shallow dampland (Barrett, 2012).	Highly Unlikely – The site is not banksia woodland
<i>Amanita carneiphylla</i>	Miller's Pink-Gilled Lepidella	Miller's Pink-Gilled Lepidella is a deeply rooting species and grows in sandy soil.	Highly Unlikely – The site is too disturbed
<i>Amanita fibrilloses</i>		<i>Amanita fibrilloses</i> is recorded on grey sand on tracks (Davison et al., 2013)	Highly Unlikely – The site is too disturbed



Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Amanita preissii</i>	Cinnamon-ring Lepidella	Cinnamon-ring Lepidella is found under shrubs and Eucalyptus in West Australia	Highly Unlikely – The site is too disturbed
<i>Byblis gigantea</i>	Rainbow Plant	The Rainbow Plant occurs in sandy-peat swamps in seasonally wet areas.	Highly Unlikely – The site is not peat habitat
<i>Carex tereticaulis</i>		<i>Carex tereticaulis</i> prefers black peaty sand.	Highly Unlikely – The site is not peaty habitat
<i>Cyathochaeta teretifolia</i>		<i>Cyathochaeta teretifolia</i> occurs in grey sand, sandy clay on swamps, creek edges.	Highly Unlikely – The site is not a swamp or creek edge
<i>Dampiera triloba</i>		<i>Dampiera triloba</i> grows in loamy sand (Australian National Herbarium, 2009)	No – not recorded during the survey
<i>Isopogon drummondii</i>		<i>Isopogon drummondii</i> occurs in white, grey or yellow sand, often over laterite.	No – not recorded during the survey
<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>		<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i> occurs in lateritic and granitic soils.	No – not laterite habitat
<i>Meionectes tenuifolia</i>		<i>Meionectes tenuifolia</i> occurs on swamp margins and poorly drained areas (Western Australian Herbarium, 2011)	No – the site is too dry and sandy
<i>Myriophyllum echinatum</i>		<i>Myriophyllum echinatum</i> grows in clay on winter-wet flats.	No – the site is too dry and sandy
<i>Stylidium asteroideum</i>	Star Triggerplant	The Star Triggerplant is recorded from shallow / flat drainage lines with damp sand / loam / clay (Western Australian Herbarium, 2013)	No – the site is too dry and sandy
<i>Stylidium paludicola</i>		<i>Stylidium paludicola</i> prefers peaty sand over clay in winter wet habitats in Marri and <i>Melaleuca</i> woodland, <i>Melaleuca</i> shrubland.	No – the site is too dry and is not peaty
<i>Styphelia filifolia</i>		<i>Styphelia filifolia</i> occurs in sandy soils of the coastal plain (with one known occurrence from the northern Darling Scarp), usually in Banksia or Jarrah woodland and in low-lying situations (Hislop and Lelièvre, 2017).	No – the site is not suitable habitat

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Anigozanthos humilis</i> subsp. <i>chrysanthus</i>	Golden Cat's Paw	Golden Cats Paw grows in grey or yellow sand.	Highly Unlikely – The site too disturbed
<i>Darwinia pimelioides</i>		<i>Darwinia pimelioides</i> prefers loam, sandy loam on granite outcrops.	No – not suitable habitat and not recorded during the survey
<i>Drosera occidentalis</i>	Western Sundew	The Western Sundew occurs in sandy and clayey soils in swamps and wet depressions.	No – the site is too dry and sandy
<i>Hydrocotyle lemnoides</i>	Aquatic Pennywort	Aquatic Pennywort occurs in swamps	No – the site is too dry and sandy
<i>Hypolaena robusta</i>		<i>Hypolaena robusta</i> grows in white sand on sandplains.	No – the species was not recorded during the survey
<i>Jacksonia sericea</i>	Waldjumi	Waldjumi grows in calcareous and sandy soils.	No – the species was not recorded during the survey
<i>Stylidium longitubum</i>	Jumping Jacks	Jumping Jacks prefer sandy clay, clay in seasonal wetlands.	No – the site is too dry and sandy
<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i> prefers sand, sandy clay in winter-wet depressions.	No – the species was not recorded during the survey

\* sourced from Florabase, DBCA database searches and SPRAT (DoEE, 2018) unless otherwise denoted

#### 4.3.2 Vegetation

##### *Vegetation Complex*

The native vegetation is part of the Southern River Vegetation Complex. Approximately 18.4% of the original extent of the Southern River Complex remains and 1.6% is in DBCA managed land. The site is located in a 'constrained area' (DBCA, 2018). The EPA's target is to retain at least 10% of each vegetation complex in constrained areas. The vegetation on the site is therefore not critical in meeting the EPA's target for vegetation retention at the regional level.

##### *Vegetation Type*

The conservation significance of vegetation types on the southern Swan Coastal Plain is assessed using the Floristic Community Type (FCT) level of vegetation description (Gibson *et al.*, 1994). To accurately determine a FCT requires detailed information on species presence, usually recorded in 10m x 10m quadrats, and recorded from vegetation in very good condition or better.

The vegetation on the site contains very few native species due to the degraded nature. The vegetation is too degraded to accurately assign to a FCT. Quadrat sampling in spring would not result in an improvement in the vegetation condition such that a FCT could be determined.

The vegetation on the site is therefore not one of the Threatened or Priority Ecological Community based on FCT types.

PGV Environmental considers the vegetation on the site does not qualify as the Banksia Woodland of the Swan Coastal Plain TEC as the tree canopy does not contain any *Banksia* trees and is too degraded to meet the minimum vegetation condition for the TEC.



## 5 SUMMARY AND CONCLUSIONS

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### 5.1 Summary

The Reconnaissance Flora and Vegetation survey found the following:

- The survey area has mostly been cleared in the past with most of it consisting of bare sand, mulch or planted landscaping works. Some small areas of native *Xanthorrhoea preissii* Low Shrubland was recorded in the north-west road reserve of Hepburn Avenue;
- The area of native vegetation was rated as Degraded due to the abundance of weeds and very low native species richness;
- Only 5 native species were recorded in the survey area. None of the species is a conservation significant species. Several other native species were recorded but were planted as part of the landscaping. None of the 46 Threatened or Priority Flora species identified as having been recorded in proximity to the survey area were considered likely to occur in the area; and
- The vegetation type is too degraded to be representative of a Floristic Community Type. Therefore, the vegetation is not one of the Threatened or Priority Ecological Communities that are defined by FCTs. The vegetation does not contain any Banksia trees and is too degraded to be recognised as part of the Banksia Woodlands of the Swan Coastal Plain TEC.

### 5.2 Conclusion

The small areas of *Xanthorrhoea preissii* native vegetation in Degraded condition recorded in the survey area are not considered to have conservation significance for flora or vegetation at State or Commonwealth level.

Clearing of the vegetation for the construction of the roundabout will require a clearing permit under State EP Act unless an exemption applies such as a valid subdivision approval.

Referral under the Commonwealth EPBC Act will not be required as the vegetation does not have any values that are recognised as a Matter of National Environmental Significance.

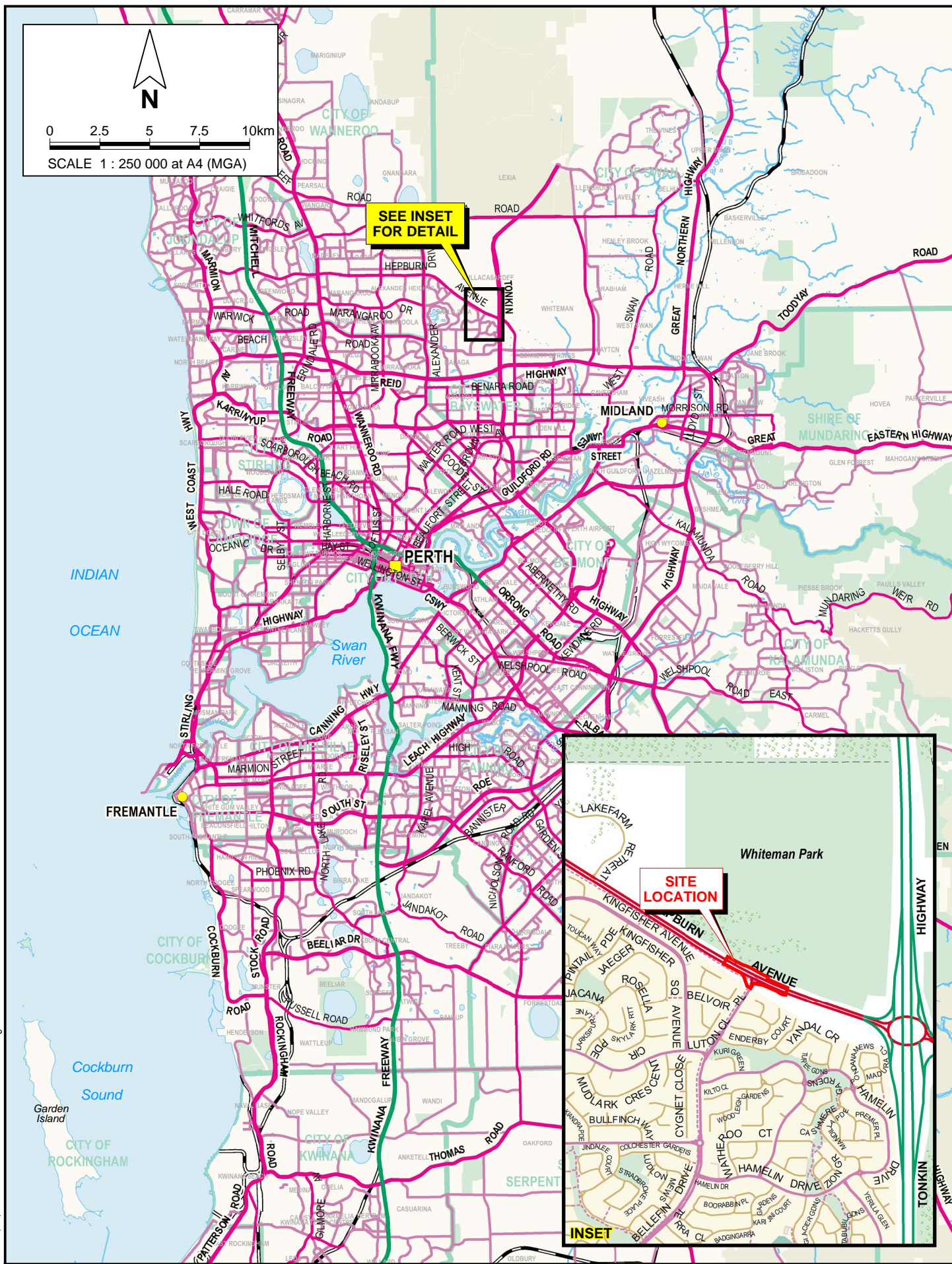
## 6 REFERENCES

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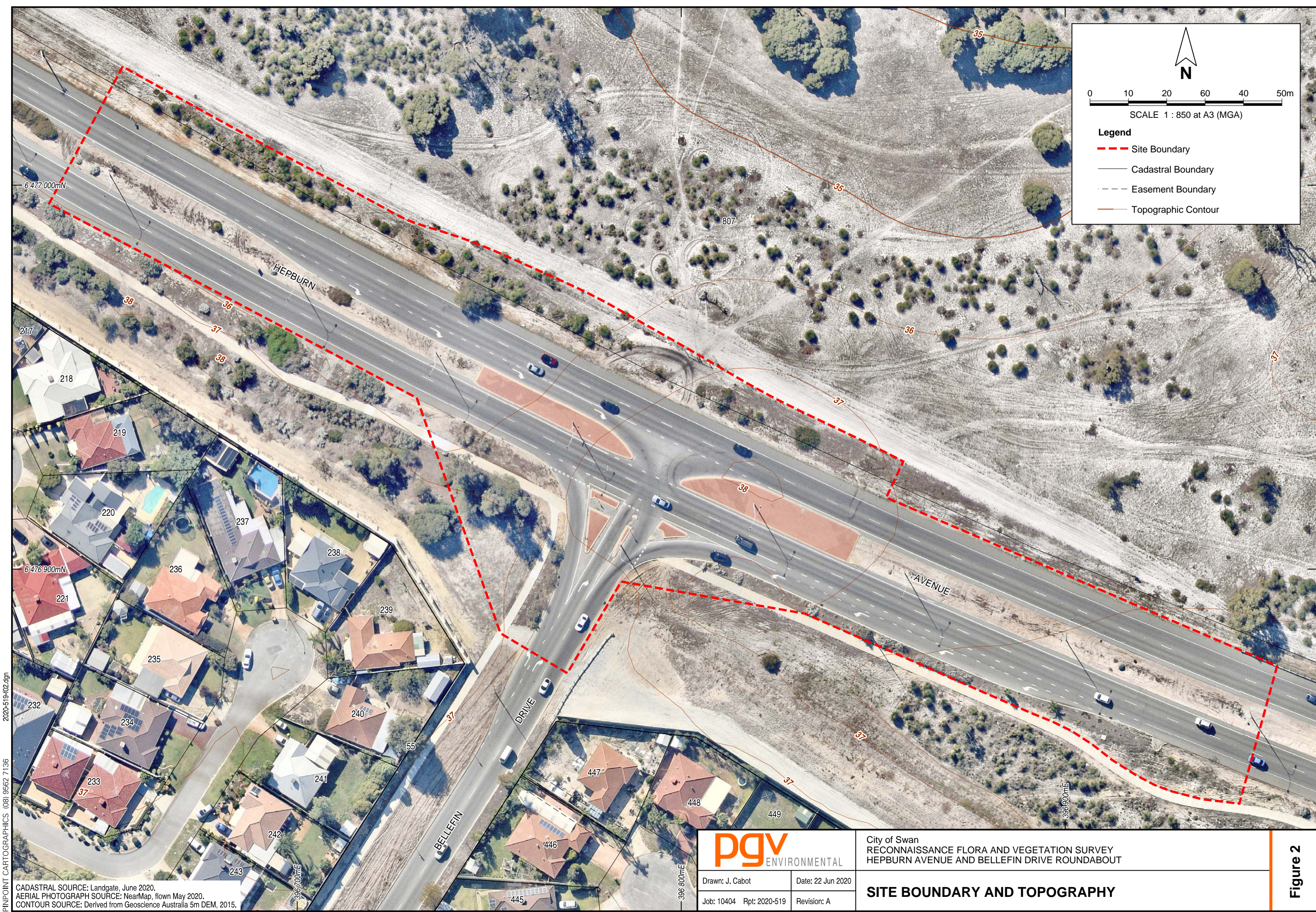
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# FIGURES







01020604050m

SCALE 1 : 850 at A3 (MGA)

Legend

Site Boundary

Cadastral Boundary

Easement Boundary

Topographic Contour

2020-519-102.dgn  
PINPOINT CARTOGRAPHICS (08) 9562 7136

CADASTRAL SOURCE: Landgate, June 2020.  
AERIAL PHOTOGRAPH SOURCE: NearMap, flown May 2020.  
CONTOUR SOURCE: Derived from Geoscience Australia 5m DEM, 2015.

pgv

ENVIRONMENTAL

Drawn: J. Cabot

Date: 22 Jun 2020

Job: 10404 Rpt: 2020-519

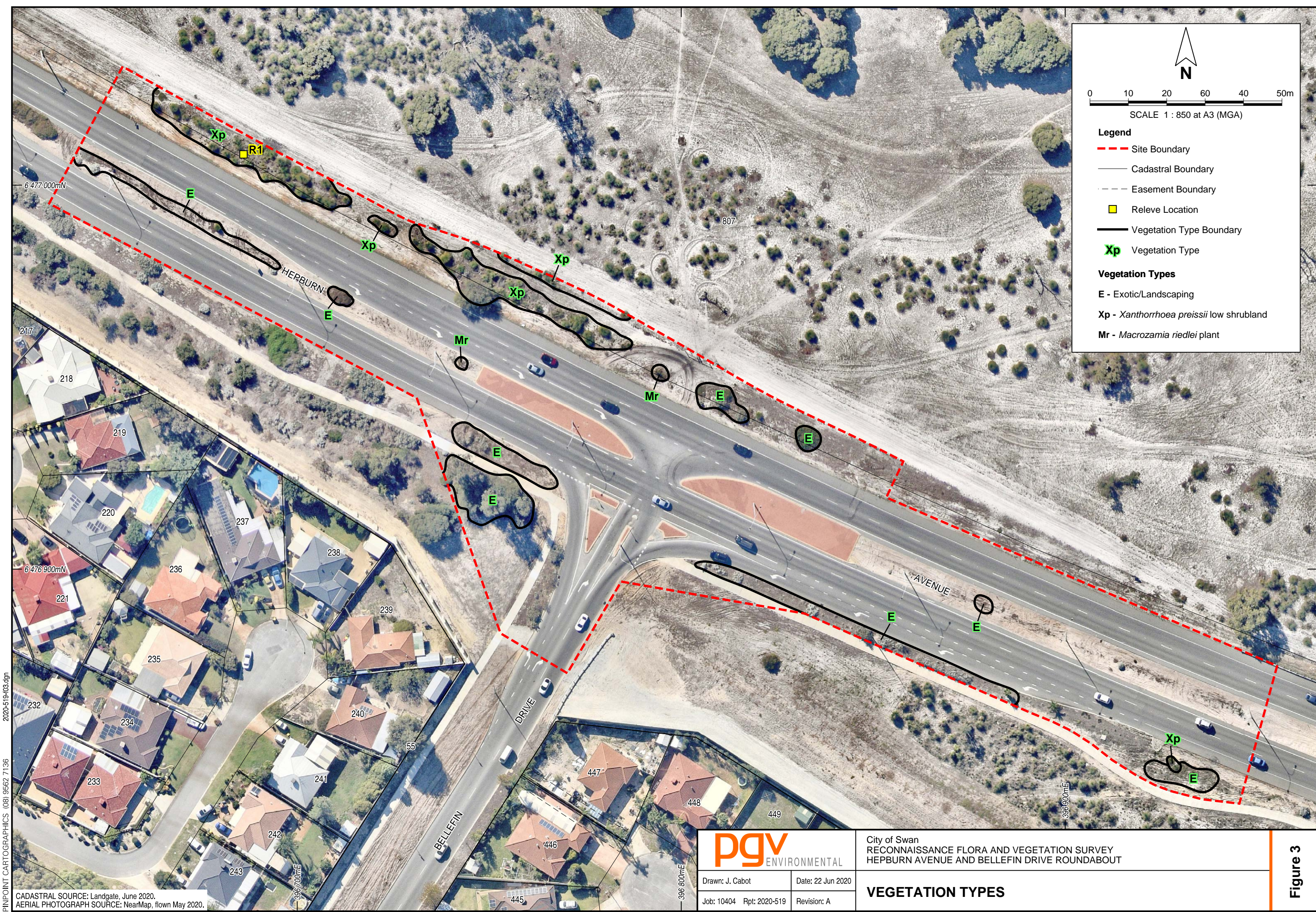
Revision: A

City of Swan  
RECONNAISSANCE FLORA AND VEGETATION SURVEY  
HEPBURN AVENUE AND BELLEFIN DRIVE ROUNDABOUT

SITE BOUNDARY AND TOPOGRAPHY

Figure 2





N

01020604050m

SCALE 1 : 850 at A3 (MGA)

Legend

Site Boundary

Cadastral Boundary

Easement Boundary

Releve Location

Vegetation Type Boundary

Xp

Vegetation Type

Vegetation Types

E - Exotic/Landscaping

Xp - Xanthorrhoea preissii low shrubland

Mr - Macrozamia riedlei plant

2020-519-103.dgn  
PINPOINT CARTOGRAPHICS (08) 9562 7136

CADASTRAL SOURCE: Landgate, June 2020.  
AERIAL PHOTOGRAPH SOURCE: NearMap, flown May 2020.

<div><div>pgv</div><div>ENVIRONMENTAL</div></div>		City of Swan RECONNAISSANCE FLORA AND VEGETATION SURVEY HEPBURN AVENUE AND BELLEFIN DRIVE ROUNDABOUT	
Drawn: J. Cabot		Date: 22 Jun 2020	
Job: 10404 Rpt: 2020-519		Revision: A	
VEGETATION TYPES			

Figure 3



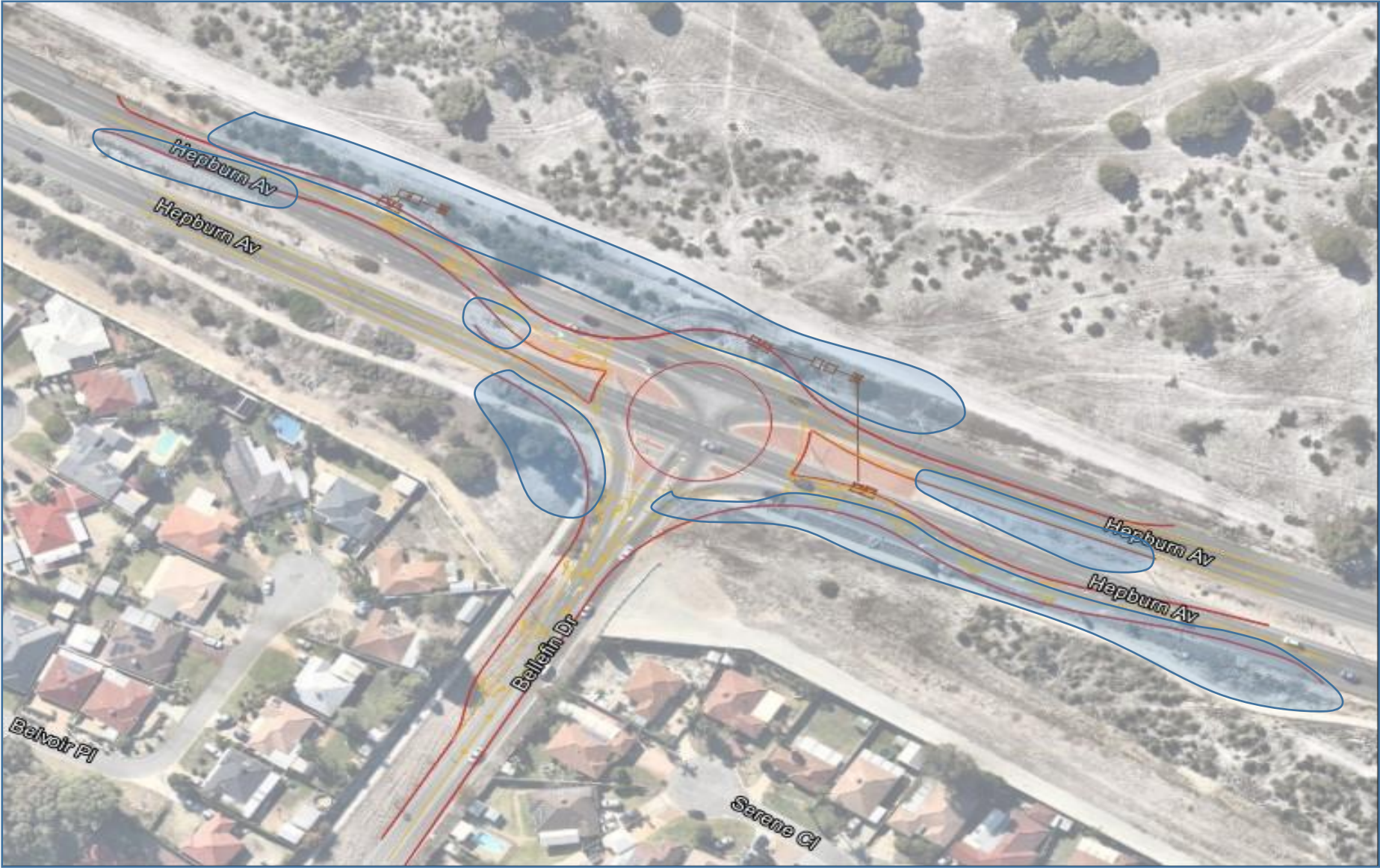




# **APPENDIX 1**

## **Proposed Roundabout Footprint**

Areas to include in clearing permit outlined in Blue



## **APPENDIX 2**

### **Naturemap Report**

# NatureMap Species Report

Created By Guest user on 19/06/2020

Current Names Only Yes  
Core Datasets Only Yes  
Method 'By Circle'  
Centre 115° 54' 33" E, 31° 50' 19" S  
Buffer 10km  
Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	1491	30939
Other specially protected fauna	3	31
Priority 1	5	16
Priority 2	3	4
Priority 3	20	125
Priority 4	15	374
Protected under international agreement	9	90
Rare or likely to become extinct	17	1881
<b>TOTAL</b>	<b>1563</b>	<b>33460</b>

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
<b>Rare or likely to become extinct</b>				
1.	24506 <i>Anous tenuirostris</i> subsp. <i>melanops</i> (Australian Lesser Noddy)		T	
2.	25452 <i>Bettongia penicillata</i> (Woylie, Brush-tailed Bettong)		T	
3.	24162 <i>Bettongia penicillata</i> subsp. <i>ogilbyi</i> (Woylie, Brush-tailed Bettong)		T	
4.	24345 <i>Botaurus poiciloptilus</i> (Australasian Bittern)		T	
5.	1596 <i>Caladenia huegelii</i> (Grand Spider Orchid)		T	
6.	1213 <i>Calectasia cyanea</i> (Blue Tinsel Lily)		T	
7.	24731 <i>Calyptorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black Cockatoo)		T	
8.	24733 <i>Calyptorhynchus baudinii</i> (Baudin's Cockatoo, White-tailed Long-billed Black Cockatoo)		T	
9.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo, White-tailed Short-billed Black Cockatoo)		T	
10.	48400 <i>Calyptorhynchus</i> sp. (white-tailed black cockatoo)		T	
11.	24092 <i>Dasyurus geoffroii</i> (Chuditch, Western Quoll)		T	
12.	10796 <i>Diuris drummondii</i> (Tall Donkey Orchid)		T	
13.	24168 <i>Macrotis lagotis</i> (Bilby, Dalgyte, Ninu)		T	
14.	24146 <i>Myrmecobius fasciatus</i> (Numbat, Walpurti)		T	
15.	25345 <i>Pseudemys umbrina</i> (Western Swamp Tortoise, Western Swamp Turtle)		T	
16.	32658 <i>Trithuria occidentalis</i> (Swan Hydatella)		T	
17.	34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)		T	
<b>Protected under international agreement</b>				
18.	41323 <i>Actitis hypoleucos</i> (Common Sandpiper)		IA	
19.	25554 <i>Apus pacificus</i> (Fork-tailed Swift, Pacific Swift)		IA	
20.	24788 <i>Calidris ruficollis</i> (Red-necked Stint)		IA	
21.	48587 <i>Hydroprogne caspia</i> (Caspian Tern)		IA	
22.	48591 <i>Pandion cristatus</i> (Osprey, Eastern Osprey)		IA	
23.	24843 <i>Plegadis falcinellus</i> (Glossy Ibis)		IA	
24.	48597 <i>Thalasseus bergii</i> (Crested Tern)		IA	
25.	24806 <i>Tringa glareola</i> (Wood Sandpiper)		IA	
26.	24808 <i>Tringa nebularia</i> (Common Greenshank, greenshank)		IA	
<b>Other specially protected fauna</b>				
27.	24724 <i>Cacatua pastinator</i> subsp. <i>pastinator</i> (Muir's Corella, Muir's Corella (Western Corella SW WA))		S	
28.	25624 <i>Falco peregrinus</i> (Peregrine Falcon)		S	
29.	24475 <i>Falco peregrinus</i> subsp. <i>macropus</i> (Australian Peregrine Falcon)		S	
<b>Priority 1</b>				
30.	48689 <i>Bolboschoenus fluviatilis</i>		P1	
31.	31233 <i>Drosera patens</i>		P1	
32.	30712 <i>Drosera x sidjamesii</i>		P1	

	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
33.	11074	<i>Hydrocotyle striata</i>		P1	
34.	20666	<i>Stachystemon</i> sp. <i>Keysbrook</i> (R. Archer 17/11/99)		P1	
<b>Priority 2</b>					
35.	3237	<i>Acacia benthamii</i>		P2	
36.	24347	<i>Ixobrychus flavicollis</i> subsp. <i>australis</i> ( <i>Black Bittern</i> (southwest subpop.), <i>Australian Black Bittern</i> )		P2	
37.	42022	<i>Poranthera moorokatta</i>		P2	
<b>Priority 3</b>					
38.	18195	<i>Amanita carneiphylla</i>		P3	
39.	43543	<i>Amanita fibrilloses</i>		P3	
40.	48332	<i>Amanita preissii</i> ( <i>Cinnamon-ring Lepidella</i> )		P3	
41.	48574	<i>Australotomurus morbidus</i> ( <i>cemetery springtail</i> , <i>Guildford springtail</i> )		P3	
42.	3178	<i>Byblis gigantea</i> ( <i>Rainbow Plant</i> )		P3	
43.	759	<i>Carex tereticaulis</i>		P3	
44.	16245	<i>Cyathochaeta teretifolia</i>		P3	
45.	7485	<i>Dampiera triloba</i>		P3	
46.	34030	<i>Geotria australis</i> ( <i>Pouched Lamprey</i> )		P3	
47.	33977	<i>Hylaeus globuliferus</i> ( <i>woolybush bee</i> )		P3	
48.	48935	<i>Idiosoma sigillatum</i> ( <i>Swan Coastal Plain shield-backed trapdoor spider</i> )		P3	
49.	29775	<i>Isopogon drummondii</i>		P3	
50.	45081	<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>		P3	
51.	33638	<i>Meionectes tenuifolia</i>		P3	
52.	6193	<i>Myriophyllum echinatum</i>		P3	
53.	25249	<i>Neelaps calonotos</i> ( <i>Black-striped Snake</i> , <i>black-striped burrowing snake</i> )		P3	
54.	12924	<i>Stylidium astroideum</i> ( <i>Star Triggerplant</i> )		P3	
55.	25800	<i>Stylidium paludicola</i>		P3	
56.	48297	<i>Styphelia filifolia</i>		P3	
57.	24855	<i>Tyto novaehollandiae</i> subsp. <i>novaehollandiae</i> ( <i>Masked Owl</i> (southwest))		P3	
<b>Priority 4</b>					
58.	11957	<i>Anigozanthos humilis</i> subsp. <i>chrysanthus</i> ( <i>Golden Catpaw</i> )		P4	
59.	5523	<i>Darwinia pimelioides</i>		P4	
60.	3115	<i>Drosera occidentalis</i> ( <i>Western Sundew</i> )		P4	
61.	24189	<i>Falsistrellus mackenziei</i> ( <i>Western False Pipistrelle</i> , <i>Western Falsistrelle</i> )		P4	
62.	6233	<i>Hydrocotyle lemnoides</i> ( <i>Aquatic Pennywort</i> )		P4	
63.	24215	<i>Hydromys chrysogaster</i> ( <i>Water-rat</i> , <i>Rakali</i> )		P4	
64.	17622	<i>Hypolaena robusta</i>		P4	
65.	48588	<i>Isoodon fusciventer</i> ( <i>Quenda</i> , <i>southwestern brown bandicoot</i> )		P4	
66.	47975	<i>Ixobrychus dubius</i> ( <i>Australian Little Bittern</i> )		P4	
67.	4027	<i>Jacksonia sericea</i> ( <i>Waldjumi</i> )		P4	
68.	48022	<i>Notamacropus irma</i> ( <i>Western Brush Wallaby</i> )		P4	
69.	24328	<i>Oxyura australis</i> ( <i>Blue-billed Duck</i> )		P4	
70.	7756	<i>Stylidium longitubum</i> ( <i>Jumping Jacks</i> )		P4	
71.	33992	<i>Synemon gratiosa</i> ( <i>Graceful Sunmoth</i> )		P4	
72.	14714	<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		P4	
<b>Non-conservation taxon</b>					
73.	15466	<i>Acacia applanata</i>			
74.	15470	<i>Acacia barbinervis</i> subsp. <i>borealis</i>			
75.	3262	<i>Acacia cochlearis</i> ( <i>Rigid Wattle</i> )			
76.	17858	<i>Acacia dealbata</i>	Y		
77.	3294	<i>Acacia dentifera</i>			
78.	3323	<i>Acacia ericifolia</i>			
79.	3374	<i>Acacia huegelii</i>			
80.	3382	<i>Acacia incrassata</i>			
81.	3383	<i>Acacia incurva</i>			
82.	18217	<i>Acacia iteaphylla</i>	Y		
83.	11611	<i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>			
84.	15721	<i>Acacia lasiocarpa</i> var. <i>sedifolia</i>			
85.	17861	<i>Acacia longifolia</i>	Y		
86.	18597	<i>Acacia longifolia</i> subsp. <i>sophorae</i>	Y		
87.	3482	<i>Acacia paradoxa</i> ( <i>Kangaroo Thorn</i> )	Y		
88.	3502	<i>Acacia pulchella</i> ( <i>Prickly Moses</i> )			
89.	15481	<i>Acacia pulchella</i> var. <i>glaberrima</i>			
90.	3527	<i>Acacia saligna</i> ( <i>Orange Wattle</i> , <i>Kudjong</i> )			
91.	30032	<i>Acacia saligna</i> subsp. <i>saligna</i>			
92.	3541	<i>Acacia sessilis</i>			
93.	3557	<i>Acacia stenoptera</i> ( <i>Narrow Winged Wattle</i> )			
94.	3576	<i>Acacia tetragonocarpa</i>			
95.	3184	<i>Acaena echinata</i> ( <i>Sheep's Burr</i> )			

	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
96.	24559	<i>Acanthagenys rufogularis</i> (Spiny-cheeked Honeyeater)			
97.		<i>Acanthaluteres brownii</i>			
98.	24260	<i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
99.	24261	<i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
100.	24262	<i>Acanthiza inornata</i> (Western Thornbill)			
101.	24560	<i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
102.	25535	<i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
103.	24281	<i>Accipiter cirrocephalus</i> subsp. <i>cirrocephalus</i> (Collared Sparrowhawk)			
104.	25536	<i>Accipiter fasciatus</i> (Brown Goshawk)			
105.	24282	<i>Accipiter fasciatus</i> subsp. <i>fasciatus</i> (Brown Goshawk)			
106.		<i>Acentrogobius bifrenatus</i>			
107.	25751	<i>Acridotheres tristis</i> (Common Myna)	Y		
108.	42368	<i>Acritoscincus trilineatus</i> (Western Three-lined Skink)			
109.	25755	<i>Acrocephalus australis</i> (Australian Reed Warbler)			
110.	6203	<i>Actinotus glomeratus</i>			
111.	1775	<i>Adenanthos cygnorum</i> (Common Woollybush)			
112.	11837	<i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> (Common Woollybush)			
113.	1791	<i>Adenanthos obovatus</i> (Basket Flower)			
114.	23474	<i>Agrostocrinum hirsutum</i>			
115.	184	<i>Aira caryophyllea</i> (Silvery Hairgrass)	Y		
116.	185	<i>Aira cupaniana</i> (Silvery Hairgrass)	Y		
117.	48513	<i>Aizoon pubescens</i>	Y		
118.		<i>Akamptogonus novarae</i>			
119.		<i>Aldrichetta forsteri</i>			
120.	1056	<i>Alexgeorgea nitens</i>			
121.	1728	<i>Allocasuarina fraseriana</i> (Sheoak, Kondil)			
122.	1732	<i>Allocasuarina humilis</i> (Dwarf Sheoak)			
123.		<i>Allothereua maculata</i>			
124.	2648	<i>Alternanthera denticulata</i> (Lesser Joyweed)			
125.	38756	<i>Amanita umbrinella</i>			
126.	38757	<i>Amanita xanthocephala</i>			
127.	2655	<i>Amaranthus albus</i> (Tumbleweed)	Y		
128.	2668	<i>Amaranthus powellii</i> (Powell's Amaranth)	Y		
129.		<i>Amblyomma triguttatum</i>			
130.		<i>Amniataba caudavittata</i>			
131.	4587	<i>Amperea protensa</i>			
132.	194	<i>Amphipogon amphipogonoides</i>			
133.	20184	<i>Amphipogon laguroides</i> subsp. <i>laguroides</i>			
134.	200	<i>Amphipogon turbinatus</i>			
135.	2375	<i>Amyema linophylla</i>			
136.	2380	<i>Amyema miquelii</i> (Stalked Mistletoe)			
137.	2383	<i>Amyema preissii</i> (Wireleaf Mistletoe)			
138.		<i>Aname mainae</i>			
139.		<i>Aname tepperi</i>			
140.	24310	<i>Anas castanea</i> (Chestnut Teal)			
141.	24311	<i>Anas clypeata</i> (Northern Shoveler)			Y
142.	24312	<i>Anas gracilis</i> (Grey Teal)			
143.	24313	<i>Anas platyrhynchos</i> (Mallard)			
144.		<i>Anas platyrhynchos</i> subsp. <i>domesticus</i>			
145.	24315	<i>Anas rhynchotis</i> (Australasian Shoveler)			
146.	24316	<i>Anas superciliosa</i> (Pacific Black Duck)			
147.	6311	<i>Andersonia heterophylla</i>			
148.	6314	<i>Andersonia lehmanniana</i>			
149.	11471	<i>Andersonia lehmanniana</i> subsp. <i>lehmanniana</i>			
150.	47414	<i>Anhinga novaehollandiae</i> (Australasian Darter)			
151.	1409	<i>Anigozanthos humilis</i> (Catspaw)			
152.	11434	<i>Anigozanthos humilis</i> subsp. <i>humilis</i>			
153.	1411	<i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw, Kurulbrang)			
154.	11261	<i>Anigozanthos manglesii</i> subsp. <i>manglesii</i>			
155.	1416	<i>Anigozanthos viridis</i> (Green Kangaroo Paw, Kurulbardang)			
156.	11566	<i>Anigozanthos viridis</i> subsp. <i>viridis</i>			
157.	29	<i>Anogramma leptophylla</i> (Annual Fern)			
158.		<i>Anser anser</i>			
159.	25241	<i>Antaresia stimsoni</i> subsp. <i>stimsoni</i> (Stimson's Python)			
160.	24561	<i>Anthochaera carunculata</i> (Red Wattlebird)			
161.	24562	<i>Anthochaera lunulata</i> (Western Little Wattlebird)			
162.	12724	<i>Anthotium junciforme</i>			
163.	25670	<i>Anthus australis</i> (Australian Pipit)			
164.	3686	<i>Aotus cordifolia</i>			
165.	3688	<i>Aotus gracillima</i>			



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166.	3692	<i>Aotus procumbens</i>			
167.	41824	<i>Aotus</i> sp. <i>Diffusa</i> (W.E. Blackall & C.A. Gardner 1739)			
168.	1117	<i>Aphelia cyperoides</i>			
169.	43548	<i>Aphelia</i> sp. <i>Albany</i> (B.G. Briggs 596)			
170.	12040	<i>Apium prostratum</i> subsp. <i>prostratum</i> var. <i>prostratum</i> (Sea Celery)			
171.	24990	<i>Aprasia pulchella</i> (Granite Worm-lizard)			
172.	24991	<i>Aprasia repens</i> (Sand-plain Worm-lizard)			
173.	24285	<i>Aquila audax</i> (Wedge-tailed Eagle)			
174.		<i>Arachnura higginsii</i>			
175.		<i>Araneus eburnus</i>			
176.	7838	<i>Arctotheca calendula</i> (Cape Weed, African Marigold)	Y		
177.	38973	<i>Arcyria pomiformis</i>			
178.	25558	<i>Ardea ibis</i> (Cattle Egret)			
179.	24338	<i>Ardea ibis</i> subsp. <i>coromanda</i> (Cattle Egret)			
180.	25559	<i>Ardea intermedia</i> (Intermediate Egret)			
181.	41324	<i>Ardea modesta</i> (great egret, white egret)			
182.	24340	<i>Ardea novaehollandiae</i> (White-faced Heron)			
183.	24341	<i>Ardea pacifica</i> (White-necked Heron)			
184.		<i>Argiope protensa</i>			
185.		<i>Argiope trifasciata</i>			
186.	1264	<i>Arnocrinum preissii</i>			
187.	25566	<i>Artamus cinereus</i> (Black-faced Woodswallow)			
188.	24353	<i>Artamus cyanopterus</i> (Dusky Woodswallow)			
189.		<i>Artoria linnaei</i>			
190.		<i>Artoriopsis eccentrica</i>			
191.		<i>Artoriopsis expolita</i>			
192.	226	<i>Arundo donax</i> (Giant Reed)	Y		
193.	20752	<i>Asparagus aethiopicus</i>	Y		
194.	8779	<i>Asparagus asparagoides</i> (Bridal Creeper)	Y		
195.	1364	<i>Asphodelus fistulosus</i> (Onion Weed)	Y		
196.	20350	<i>Astartea affinis</i> (West-coast Astartea)			
197.	20249	<i>Astartea leptophylla</i> (River-bank Astartea)			
198.	20283	<i>Astartea scoparia</i> (Common Astartea)			
199.	7851	<i>Asteridea pulverulenta</i> (Common Bristle Daisy)			
200.	6323	<i>Astroloma ciliatum</i> (Candle Cranberry)			
201.	6330	<i>Astroloma macrocalyx</i> (Swan Berry)			
202.	6334	<i>Astroloma pallidum</i> (Kick Bush)			
203.	6337	<i>Astroloma stomarrhena</i> (Red Swamp Cranberry)			
204.	6339	<i>Astroloma xerophyllum</i>			
205.		<i>Atherinosoma wallacei</i>			
206.	2471	<i>Atriplex prostrata</i> (Hastate Orache)	Y		
207.	44679	<i>Auranticarpa rhombifolia</i>	Y		Y
208.		<i>Austracantha minax</i>			
209.	38764	<i>Austropaxillus muelleri</i>			
210.	17234	<i>Austrostipa compressa</i>			
211.	17238	<i>Austrostipa eremophila</i>			
212.	17240	<i>Austrostipa flavescens</i>			
213.	17241	<i>Austrostipa hemipogon</i>			
214.	17257	<i>Austrostipa variabilis</i>			
215.	233	<i>Avena barbata</i> (Bearded Oat)	Y		
216.	234	<i>Avena fatua</i> (Wild Oat)	Y		
217.	24318	<i>Aythya australis</i> (Hardhead)			
218.	18279	<i>Babiana angustifolia</i>	Y		
219.	36441	<i>Babingtonia camphorosmae</i> (Camphor Myrtle)			
220.		<i>Backobourkia brounii</i>			
221.		<i>Backobourkia heroine</i>			
222.		<i>Badumna insignis</i>			
223.	1382	<i>Baeometra uniflora</i>	Y		
224.		<i>Ballarra longipalpus</i>			
225.	32682	<i>Banksia armata</i> var. <i>armata</i>			
226.	1800	<i>Banksia attenuata</i> (Slender Banksia, Piara)			
227.	32576	<i>Banksia dallanneyi</i> (Couch Honey-pot)			
228.	32580	<i>Banksia dallanneyi</i> subsp. <i>dallanneyi</i> var. <i>dallanneyi</i>			
229.	1819	<i>Banksia grandis</i> (Bull Banksia, Pulgarla)			
230.	1822	<i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
231.	1830	<i>Banksia littoralis</i> (Swamp Banksia, Pungura)			
232.	1834	<i>Banksia menziesii</i> (Firewood Banksia)			
233.	32203	<i>Banksia nivea</i> subsp. <i>nivea</i>			
234.	1852	<i>Banksia telmatiaea</i> (Swamp Fox Banksia)			
235.	32315	<i>Barbula calycina</i>			

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236.	<i>Barnardius zonarius</i>			
237.	38765 <i>Battarrea stevenii</i>			
238.	740 <i>Baumea arthropphylla</i>			
239.	741 <i>Baumea articulata</i> (Jointed Rush)			
240.	743 <i>Baumea juncea</i> (Bare Twigrush)			
241.	744 <i>Baumea laxa</i>			
242.	745 <i>Baumea preissii</i>			
243.	747 <i>Baumea rubiginosa</i>			
244.	748 <i>Baumea vaginalis</i> (Sheath Twigrush)			
245.	17761 <i>Beaufortia aestiva</i> (Kalbarri Beaufortia)			
246.	5382 <i>Beaufortia elegans</i> (Elegant Beaufortia)			
247.	48868 <i>Bellardia viscosa</i>	Y		
248.	25788 <i>Billardiera fraseri</i> (Elegant Pronaya)			
249.	24319 <i>Biziura lobata</i> (Musk Duck)			
250.	<i>Bjerkandera adusta</i>			
251.	1417 <i>Blancoa canescens</i> (Winter Bell)			
252.	749 <i>Bolboschoenus caldwellii</i> (Marsh Club-rush)			
253.	17665 <i>Boronia purdieana</i> subsp. <i>purdieana</i>			
254.	11381 <i>Boronia ramosa</i> subsp. <i>anethifolia</i>			
255.	11564 <i>Boronia ramosa</i> subsp. <i>ramosa</i>			
256.	1272 <i>Borya scirpoidea</i>			
257.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)			
258.	<i>Bostockia porosa</i>			
259.	7867 <i>Brachyscome bellidioides</i>			
260.	7878 <i>Brachyscome iberidifolia</i>			
261.	7883 <i>Brachyscome pusilla</i>			
262.	42380 <i>Brachyuropsis fasciolatus</i> subsp. <i>fasciolatus</i> (Narrow-banded Shovel-nosed Snake)			
263.	42381 <i>Brachyuropsis semifasciatus</i> (Southern Shovel-nosed Snake)			
264.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
265.	245 <i>Briza minor</i> (Shivery Grass)	Y		
266.	249 <i>Bromus diandrus</i> (Great Brome)	Y		
267.	250 <i>Bromus hordeaceus</i> (Soft Brome)	Y		
268.	32330 <i>Bryum argenteum</i>			
269.	1383 <i>Burchardia bairdiae</i>			
270.	12770 <i>Burchardia congesta</i>			
271.	1385 <i>Burchardia multiflora</i> (Dwarf Burchardia)			
272.	24359 <i>Burhinus grallarius</i> (Bush Stone-curlew)			
273.	25713 <i>Cacatua galerita</i> (Sulphur-crested Cockatoo)			
274.	24721 <i>Cacatua galerita</i> subsp. <i>galerita</i> (Sulphur-crested Cockatoo)	Y		
275.	24722 <i>Cacatua leadbeateri</i> (Major Mitchell's Cockatoo)			
276.	25714 <i>Cacatua pastinator</i> (Western Long-billed Corella)			
277.	24723 <i>Cacatua pastinator</i> subsp. <i>butleri</i> (Butler's Corella)			
278.	25715 <i>Cacatua roseicapilla</i> (Galah)			
279.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
280.	24727 <i>Cacatua sanguinea</i> subsp. <i>westralensis</i> (Little Corella)			
281.	<i>Cacatua sulphurea</i> subsp. <i>galerita</i>			Y
282.	24729 <i>Cacatua tenuirostris</i> (Eastern Long-billed Corella)	Y		
283.	25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
284.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
285.	1276 <i>Caesia micrantha</i> (Pale Grass Lily)			
286.	1277 <i>Caesia occidentalis</i>			
287.	15330 <i>Caladenia arenicola</i>			
288.	11136 <i>Caladenia denticulata</i>			
289.	1586 <i>Caladenia discoidea</i> (Dancing Orchid)			
290.	1592 <i>Caladenia flava</i> (Cowslip Orchid)			
291.	15348 <i>Caladenia flava</i> subsp. <i>flava</i>			
292.	15354 <i>Caladenia hirta</i> subsp. <i>hirta</i>			
293.	1599 <i>Caladenia latifolia</i> (Pink Fairy Orchid)			
294.	15503 <i>Caladenia paludosa</i>			
295.	15377 <i>Caladenia reptans</i> subsp. <i>reptans</i>			
296.	18019 <i>Caladenia vulgata</i>			
297.	2848 <i>Calandrinia corrigioloides</i> (Strap Purslane)			
298.	2854 <i>Calandrinia granulifera</i> (Pygmy Purslane)			
299.	2856 <i>Calandrinia liniflora</i> (Parakeelya)			
300.	19309 <i>Calectasia narragara</i>			
301.	4717 <i>Callitriche stagnalis</i> (Common Starwort)	Y		
302.	92 <i>Callitriche canescens</i>			
303.	96 <i>Callitriche preissii</i> (Rottnest Island Pine, Maro)			
304.	33157 <i>Calochilus stramenicola</i>			
305.	5415 <i>Calothamnus lateralis</i>			



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306.	35816 <i>Calothamnus quadrifidus</i> subsp. <i>quadrifidus</i>			
307.	5428 <i>Calothamnus rupestris</i> (Mouse Ears)			
308.	5429 <i>Calothamnus sanguineus</i> (Silky-leaved Blood flower, Pindak)			
309.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
310.	5439 <i>Calytrix angulata</i> (Yellow Starflower)			
311.	5441 <i>Calytrix aurea</i>			
312.	5458 <i>Calytrix flavescens</i> (Summer Starflower)			
313.	5460 <i>Calytrix fraseri</i> (Pink Summer Calytrix)			
314.	5461 <i>Calytrix glutinosa</i>			
315.	5476 <i>Calytrix sapphirina</i>			
316.	32338 <i>Campylopus introflexus</i>	Y		
317.	<i>Carcharhinus leucas</i>			
318.	49010 <i>Cardamine occulta</i>	Y		
319.	25625 <i>Carduelis carduelis</i> (Goldfinch, European Goldfinch)	Y		
320.	24480 <i>Carduelis carduelis</i> subsp. <i>britannica</i> (Goldfinch)	Y		
321.	753 <i>Carex appressa</i> (Tall Sedge)			
322.	756 <i>Carex inversa</i> (Knob Sedge)			
323.	2795 <i>Carpobrotus edulis</i> (Hottentot Fig)	Y		
324.	1162 <i>Cartonema phylloides</i>			
325.	2951 <i>Cassytha flava</i> (Dodder Laurel)			
326.	2952 <i>Cassytha glabella</i> (Tangled Dodder Laurel)			
327.	2957 <i>Cassytha racemosa</i> (Dodder Laurel)			
328.	18321 <i>Casuarina glauca</i>	Y		
329.	1742 <i>Casuarina obesa</i> (Swamp Sheoak, Kuli)			
330.	<i>Celaenia excavata</i>			
331.	258 <i>Cenchrus ciliaris</i> (Buffel Grass)	Y		
332.	41566 <i>Cenchrus longisetus</i> (Feathertop)	Y		
333.	6539 <i>Centaureum erythraea</i> (Common Centaury)	Y		
334.	6542 <i>Centaureum tenuiflorum</i>	Y		
335.	6214 <i>Centella asiatica</i>			
336.	7918 <i>Centipeda cunninghamii</i> (Common Sneezewood, Gukwonderuk, Old Man Weed)			
337.	1121 <i>Centrolepis aristata</i> (Pointed Centrolepis)			
338.	1125 <i>Centrolepis drummondiana</i>			
339.	1132 <i>Centrolepis mutica</i>			
340.	2889 <i>Cerastium glomeratum</i> (Mouse Ear Chickweed)	Y		
341.	24086 <i>Cercartetus concinnus</i> (Western Pygmy-possum, Mundarda)			
342.	<i>Cercophonius granulosus</i>			
343.	<i>Cercophonius sulcatus</i>			
344.	17685 <i>Chaetanthes aristatus</i>			
345.	24186 <i>Chalinolobus gouldii</i> (Gould's Wattled Bat)			
346.	1280 <i>Chamaescilla corymbosa</i> (Blue Squill)			
347.	11299 <i>Chamaescilla corymbosa</i> var. <i>corymbosa</i>			
348.	5498 <i>Chamaelaucium uncinatum</i> (Geraldton Wax)			
349.	24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)			
350.	1513 <i>Chasmanthe floribunda</i> (African Cornflag)	Y		
351.	31 <i>Cheilanthes austrotenuifolia</i>			
352.	43380 <i>Chelodina colliei</i> (South-western Snake-necked Turtle)			
353.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
354.	47909 <i>Cheramoeca leucosterna</i> (White-backed Swallow)			
355.	33939 <i>Cherax cainii</i> (Marron)			
356.	<i>Cherax destructor</i>			
357.	<i>Cherax quinquecarinatus</i>			
358.	<i>Chlorophyllum brunneum</i>			
359.	7925 <i>Chondrilla juncea</i> (Skeleton Weed)	Y		
360.	17833 <i>Chordifex microcodon</i>			
361.	17706 <i>Chordifex sinuosus</i>			
362.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
363.	<i>Chroicocephalus novaehollandiae</i>			
364.	11900 <i>Chrysanthemoides monilifera</i> subsp. <i>monilifera</i>	Y		
365.	24431 <i>Chrysococcyx basalis</i> (Horsfield's Bronze Cuckoo)			
366.	24432 <i>Chrysococcyx lucidus</i> subsp. <i>plagosus</i> (Shining Bronze Cuckoo)			
367.	24288 <i>Circus approximans</i> (Swamp Harrier)			
368.	24289 <i>Circus assimilis</i> (Spotted Harrier)			
369.	7937 <i>Cirsium vulgare</i> (Spear Thistle, Scotch Thistle)	Y		
370.	24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
371.	<i>Cnidoglanis macrocephalus</i>			
372.	38984 <i>Collaria arcyrionema</i>			
373.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
374.	<i>Coltricia cinnamomea</i>			
375.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		

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376.	<i>Colus pusillus</i>			
377.	38986 <i>Comatricha elegans</i>			
378.	38987 <i>Comatricha ellae</i>			
379.	4550 <i>Comesperma calymega</i> (Blue-spike Milkwort)			
380.	4551 <i>Comesperma ciliatum</i>			
381.	4554 <i>Comesperma flavum</i>			
382.	4564 <i>Comesperma virgatum</i> (Milkwort)			
383.	1857 <i>Conospermum acerosum</i> (Needle-leaved Smokebush)			
384.	15607 <i>Conospermum acerosum</i> subsp. <i>acerosum</i>			
385.	1876 <i>Conospermum incurvum</i> (Plume Smokebush)			
386.	1882 <i>Conospermum stoechadis</i> (Common Smokebush)			
387.	15520 <i>Conospermum stoechadis</i> subsp. <i>sclerophyllum</i>			
388.	15611 <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> (Common Smokebush)			
389.	6347 <i>Conostephium minus</i> (Pink-tipped Pearl flower)			
390.	6348 <i>Conostephium pendulum</i> (Pearl Flower)			
391.	6349 <i>Conostephium preissii</i>			
392.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
393.	11513 <i>Conostylis aculeata</i> subsp. <i>cygnorum</i>			
394.	1420 <i>Conostylis androstemma</i> (Trumpets)			
395.	1423 <i>Conostylis aurea</i> (Golden Conostylis)			
396.	11438 <i>Conostylis candicans</i> subsp. <i>candicans</i>			
397.	12035 <i>Conostylis caricina</i> subsp. <i>caricina</i>			
398.	11695 <i>Conostylis festucacea</i> subsp. <i>festucacea</i>			
399.	1436 <i>Conostylis juncea</i>			
400.	1454 <i>Conostylis setigera</i> (Bristly Cottonhead)			
401.	11597 <i>Conostylis setigera</i> subsp. <i>setigera</i>			
402.	<i>Conostylis</i> sp.			
403.	6614 <i>Convolvulus remotus</i>			
404.	7939 <i>Conyza bonariensis</i> (Flaxleaf Fleabane)	Y		
405.	7941 <i>Conyza parva</i>	Y		
406.	<i>Copidognathus cooki</i>			Y
407.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
408.	<i>Cormocephalus aurantipes</i>			
409.	<i>Cormocephalus turneri</i>			
410.	2891 <i>Corrigiola litoralis</i> (Strapwort)	Y		
411.	48259 <i>Cortaderia selloana</i> subsp. <i>selloana</i>	Y		
412.	38774 <i>Cortinarius archeri</i>			
413.	38776 <i>Cortinarius phalarus</i>			
414.	24416 <i>Corvus bennetti</i> (Little Crow)			
415.	25592 <i>Corvus coronoides</i> (Australian Raven)			
416.	24417 <i>Corvus coronoides</i> subsp. <i>perplexus</i> (Australian Raven)			
417.	12945 <i>Corybas recurvus</i>			
418.	17104 <i>Corymbia calophylla</i> (Marri)			
419.	1285 <i>Corynotheca micrantha</i> (Sand Lily)			
420.	11283 <i>Corynotheca micrantha</i> var. <i>micrantha</i>			
421.	7943 <i>Cotula australis</i> (Common Cotula)			
422.	7945 <i>Cotula coronopifolia</i> (Waterbuttons)	Y		
423.	7946 <i>Cotula cotuloides</i> (Smooth Cotula)			
424.	7947 <i>Cotula turbinata</i> (Funnel Weed)	Y		
425.	24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)			
426.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
427.	24422 <i>Cracticus tibicen</i> subsp. <i>dorsalis</i> (White-backed Magpie)			
428.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
429.	13354 <i>Craspedia variabilis</i>			
430.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			
431.	11709 <i>Crassula colorata</i> var. <i>acuminata</i>			
432.	11563 <i>Crassula colorata</i> var. <i>colorata</i>			
433.	3138 <i>Crassula decumbens</i> (Rufous Stonecrop)			
434.	11349 <i>Crassula decumbens</i> var. <i>decumbens</i>			
435.	3139 <i>Crassula exserta</i>			
436.	15706 <i>Crassula natans</i> var. <i>minus</i>	Y		
437.	39003 <i>Cribraria minutissima</i>			
438.	25398 <i>Crinia georgiana</i> (Quacking Frog)			
439.	25399 <i>Crinia glauerti</i> (Clicking Frog)			
440.	25400 <i>Crinia insignifera</i> (Squelching Froglet)			
441.	13527 <i>Croninia kingiana</i>			
442.	<i>Crustulina bicrucata</i>			
443.	4792 <i>Cryptandra arbutiflora</i> (Waxy Cryptandra)			
444.	13470 <i>Cryptandra arbutiflora</i> var. <i>arbutiflora</i>			
445.	13484 <i>Cryptandra arbutiflora</i> var. <i>tubulosa</i>			

	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
446.	4809	<i>Cryptandra pungens</i>			
447.	4810	<i>Cryptandra scoparia</i>			
448.	30893	<i>Cryptoblepharus buehnanii</i>			
449.	25020	<i>Cryptoblepharus plagiocephalus</i>			
450.		<i>Cryptoerithus quobba</i>			
451.	30899	<i>Ctenophorus adelaidensis</i> (Southern Heath Dragon, Western Heath Dragon)			
452.	25027	<i>Ctenotus australis</i>			
453.	25039	<i>Ctenotus fallens</i>			
454.	25040	<i>Ctenotus gemmula</i> (Jewelled South-west Ctenotus (Swan Coastal Plain subpop P3), skink)			
455.	25047	<i>Ctenotus impar</i>			
456.	11021	<i>Cuscuta planiflora</i>	Y		
457.	1487	<i>Cyanella hyacinthoides</i>	Y		
458.		<i>Cyanorhamphus auriceps</i>			Y
459.	768	<i>Cyathochaeta avenacea</i>			
460.	769	<i>Cyathochaeta clandestina</i>			
461.	17618	<i>Cyathochaeta equitans</i>			
462.		<i>Cyclosa trilobata</i>			
463.	40660	<i>Cycnogeton huegelii</i>			
464.	40661	<i>Cycnogeton lineare</i>			
465.	24322	<i>Cygnus atratus</i> (Black Swan)			
466.	24323	<i>Cygnus olor</i> (Mute Swan)	Y		
467.	283	<i>Cynodon dactylon</i> (Couch)	Y		
468.	783	<i>Cyperus congestus</i> (Dense Flat-sedge)	Y		
469.	792	<i>Cyperus eragrostis</i> (Umbrella Sedge)	Y		
470.	806	<i>Cyperus polystachyos</i> (Bunchy Sedge)			
471.	815	<i>Cyperus tenellus</i> (Tiny Flatsedge)	Y		
472.	10916	<i>Cyrtostylis huegelii</i>			
473.	10942	<i>Cyrtostylis tenuissima</i>			
474.	17692	<i>Cytogonidium leptocarpoides</i>			
475.	30901	<i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
476.	30902	<i>Dacelo novaeguineae</i> subsp. <i>novaeguineae</i> (Laughing Kookaburra)	Y		
477.	7420	<i>Dampiera alata</i> (Winged-stem Dampiera)			
478.	7428	<i>Dampiera coronata</i> (Wedge-leaved Dampiera)			
479.	7454	<i>Dampiera linearis</i> (Common Dampiera)			
480.	25673	<i>Daphoenositta chrysoptera</i> (Varied Sittella)			
481.	24606	<i>Daphoenositta chrysoptera</i> subsp. <i>pileata</i> (Varied Sittella, Black-capped Sittella)			
482.	5508	<i>Darwinia citrodora</i> (Lemon-scented Darwinia)			
483.	41026	<i>Dasymalla teckiana</i>			
484.	1218	<i>Dasypogon bromeliifolius</i> (Pineapple Bush)			
485.	10823	<i>Datura innoxia</i>	Y		
486.	6218	<i>Daucus glochidiatus</i> (Australian Carrot)			
487.	15656	<i>Daviesia brachyphylla</i>			
488.	19747	<i>Daviesia decurrens</i> subsp. <i>decurrens</i>			
489.	3807	<i>Daviesia divaricata</i> (Marno)			
490.	18560	<i>Daviesia divaricata</i> subsp. <i>divaricata</i>			
491.	3824	<i>Daviesia nudiflora</i>			
492.	16585	<i>Daviesia nudiflora</i> subsp. <i>nudiflora</i>			
493.	3831	<i>Daviesia pedunculata</i>			
494.	3832	<i>Daviesia physodes</i>			
495.	3833	<i>Daviesia podophylla</i>			
496.	3834	<i>Daviesia polyphylla</i>			
497.	3845	<i>Daviesia triflora</i>			
498.	25766	<i>Delma fraseri</i> (Fraser's Legless Lizard)			
499.	24999	<i>Delma grayii</i>			
500.	25296	<i>Demansia psammophis</i> subsp. <i>reticulata</i> (Yellow-faced Whipsnake)			
501.	24325	<i>Dendrocygna eytoni</i> (Plumed Whistling Duck)			
502.	17663	<i>Desmocladius asper</i>			
503.	17691	<i>Desmocladius fasciculatus</i>			
504.	16595	<i>Desmocladius flexuosus</i>			
505.	299	<i>Deyeuxia quadriseta</i> (Reed Bentgrass)			
506.	1259	<i>Dianella revoluta</i> (Blueberry Lily)			
507.	11636	<i>Dianella revoluta</i> var. <i>divaricata</i>			
508.	25607	<i>Dicaeum hirundinaceum</i> (Mistletoebird)			
509.	1287	<i>Dichopogon capillipes</i>			
510.	1289	<i>Dichopogon preissii</i>			
511.	39018	<i>Didymium bahiense</i>			
512.	17838	<i>Dielsia stenostachya</i>			
513.	320	<i>Digitaria sanguinalis</i> (Crab Grass)	Y		
514.		<i>Dingosa serrata</i>			

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515.	<i>Dinocambala ingens</i>			
516.	24939 <i>Diplodactylus polyophthalmus</i>			
517.	4453 <i>Diplolaena angustifolia</i> (Yanchep Rose)			
518.	3011 <i>Diploxys muralis</i> (Wall Rocket)	Y		
519.	19649 <i>Disa bracteata</i>	Y		
520.	7054 <i>Dischisma arenarium</i>	Y		
521.	7055 <i>Dischisma capitatum</i> (Woolly-headed Dischisma)	Y		
522.	7961 <i>Dittrichia graveolens</i> (Stinkwort)	Y		
523.	12943 <i>Diuris brumalis</i>			
524.	11049 <i>Diuris corymbosa</i>			
525.	1634 <i>Diuris laxiflora</i> (Bee Orchid)			
526.	12939 <i>Diuris magnifica</i>			
527.	46859 <i>Diuris ostrina</i>			
528.	13219 <i>Drosera bulbosa</i> subsp. <i>bulbosa</i>			
529.	48751 <i>Drosera drummondii</i>			
530.	3095 <i>Drosera erythrorhiza</i> (Red Ink Sundew)			
531.	3097 <i>Drosera gigantea</i> (Giant Sundew)			
532.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
533.	3101 <i>Drosera heterophylla</i> (Swamp Rainbow)			
534.	48768 <i>Drosera hirsuta</i>			
535.	3106 <i>Drosera macrantha</i> (Bridal Rainbow)			
536.	3109 <i>Drosera menziesii</i> (Pink Rainbow)			
537.	48763 <i>Drosera micra</i>			Y
538.	48710 <i>Drosera micrantha</i>			
539.	48709 <i>Drosera minutiflora</i>			
540.	3114 <i>Drosera nitidula</i> (Shining Sundew)			
541.	3116 <i>Drosera omissa</i> (Bright Sundew)			
542.	3118 <i>Drosera pallida</i> (Pale Rainbow)			
543.	3123 <i>Drosera platystigma</i> (Black-eyed Sundew)			
544.	3124 <i>Drosera pulchella</i> (Pretty Sundew)			
545.	8911 <i>Drosera rosulata</i>			
546.	49090 <i>Drosera</i> sp. <i>Branched styles</i> (S.C. Coffey 193)			
547.	3131 <i>Drosera stolonifera</i> (Leafy Sundew)			
548.	3135 <i>Drosera zonaria</i> (Painted Sundew)			
549.	33500 <i>Dysphania ambrosioides</i> (Mexican Tea)	Y		
550.	2501 <i>Dysphania glomulifera</i>			
551.	11368 <i>Dysphania glomulifera</i> subsp. <i>glomulifera</i>			
552.	328 <i>Echinochloa colona</i> (Awnless Barnyard Grass)	Y		
553.	11105 <i>Echinochloa crus-galli</i>	Y		
554.	39029 <i>Echinostelium minutum</i>			
555.	25251 <i>Echiopsis curta</i> (Bardick)			
556.	6681 <i>Echium plantagineum</i> (Paterson's Curse)	Y		
557.	159 <i>Egeria densa</i> (Dense Waterweed)	Y		
558.	25096 <i>Egernia kingii</i> (King's Skink)			
559.	25100 <i>Egernia napoleonis</i>			
560.	<i>Egretta garzetta</i>			
561.	<i>Egretta novaehollandiae</i>			
562.	11818 <i>Ehrharta brevifolia</i> var. <i>brevifolia</i>	Y		
563.	11485 <i>Ehrharta brevifolia</i> var. <i>cuspidata</i>	Y		
564.	347 <i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
565.	349 <i>Ehrharta longiflora</i> (Annual Veldt Grass)	Y		
566.	1169 <i>Eichhornia crassipes</i> (Water Hyacinth)	Y		
567.	<i>Elanus axillaris</i>			
568.	24290 <i>Elanus caeruleus</i> subsp. <i>axillaris</i> (Australian Black-shouldered Kite)			
569.	25250 <i>Elapognathus coronatus</i> (Crowned Snake)			
570.	5187 <i>Elatine gratioloides</i> (Waterwort)			
571.	831 <i>Eleocharis sphacelata</i> (Tall Spikerush, Djabren)			
572.	353 <i>Eleusine indica</i> (Crowsfoot Grass)	Y		
573.	47937 <i>Elseymoris melanops</i> (Black-fronted Dotterel)			
574.	1643 <i>Elythranthera brunonis</i> (Purple Enamel Orchid)			
575.	1067 <i>Empodisma gracillimum</i>			
576.	39030 <i>Enerthenema papillatum</i>			
577.	<i>Engraulis australis</i>			
578.	<i>Eodelena convexa</i>			
579.	<i>Eolophus roseicapillus</i>			
580.	1645 <i>Epiblema grandiflorum</i> (Babe-in-a-cradle)			
581.	6132 <i>Epilobium ciliatum</i>	Y		
582.	6133 <i>Epilobium hirtigerum</i> (Hairy Willow Herb)			
583.	24567 <i>Ephianura albifrons</i> (White-fronted Chat)			
584.	24258 <i>Equus caballus</i> (Horse)	Y		

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585.	376 <i>Eragrostis curvula</i> (African Lovegrass)	Y		
586.	13949 <i>Eremaea asterocarpa</i>			
587.	13950 <i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>			
588.	5541 <i>Eremaea pauciflora</i>			
589.	14104 <i>Eremaea pauciflora</i> var. <i>pauciflora</i>			
590.	5542 <i>Eremaea purpurea</i>			
591.	<i>Erigone prominens</i>			
592.	15410 <i>Eriochilus dilatatus</i> subsp. <i>dilatatus</i>			
593.	15412 <i>Eriochilus dilatatus</i> subsp. <i>multiflorus</i>			
594.	15414 <i>Eriochilus helonomos</i>			
595.	15415 <i>Eriochilus scaber</i> subsp. <i>scaber</i>			
596.	<i>Eriophora biapicata</i>			
597.	<i>Ero aphaea</i>			
598.	4332 <i>Erodium botrys</i> (Long Storksbill)	Y		
599.	4333 <i>Erodium cicutarium</i> (Common Storksbill)	Y		
600.	4335 <i>Erodium cygnorum</i> (Blue Heronsbill)			
601.	6219 <i>Eryngium pinnatifidum</i> (Blue Devils)			
602.	<i>Erythracarus decoris</i>			
603.	24379 <i>Erythronyctes cinctus</i> (Red-kneed Dotterel)			
604.	<i>Ethmostigmus rubripes</i>			
605.	5616 <i>Eucalyptus decurva</i> (Slender Mallee)			
606.	5659 <i>Eucalyptus gomphocephala</i> (Tuart, Duart)			
607.	5708 <i>Eucalyptus marginata</i> (Jarrah, Djara)			
608.	13547 <i>Eucalyptus marginata</i> subsp. <i>marginata</i> (Jarrah)			
609.	5739 <i>Eucalyptus patens</i> (Swan River Blackbutt, Dwuda)			
610.	5763 <i>Eucalyptus rudis</i> (Flooded Gum, Kulurda)			
611.	5790 <i>Eucalyptus todtiana</i> (Coastal Blackbutt)			
612.	12906 <i>Eucalyptus wandoo</i> subsp. <i>wandoo</i>			
613.	3872 <i>Euchilopsis linearis</i> (Swamp Pea)			
614.	15137 <i>Euchiton sphaericus</i>			
615.	4626 <i>Euphorbia drummondii</i> (Caustic Weed, Piwi)			
616.	4627 <i>Euphorbia helioscopia</i> (Sun Spurge)	Y		
617.	29940 <i>Euphorbia maculata</i>	Y		
618.	4638 <i>Euphorbia peplus</i> (Petty Spurge)	Y		
619.	4648 <i>Euphorbia terracina</i> (Geraldton Carnation Weed)	Y		
620.	24368 <i>Eurostopodus argus</i> (Spotted Nightjar)			
621.	429 <i>Eustachys distichophylla</i> (Evergreen Chloris)	Y		
622.	3880 <i>Eutaxia virgata</i>			
623.	10765 <i>Exocarpos sparteus</i> (Broom Ballart, Djuk)			
624.	25621 <i>Falco berigora</i> (Brown Falcon)			
625.	24471 <i>Falco berigora</i> subsp. <i>berigora</i> (Brown Falcon)			
626.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
627.	24472 <i>Falco cenchroides</i> subsp. <i>cenchrus</i> (Australian Kestrel, Nankeen Kestrel)			
628.	25623 <i>Falco longipennis</i> (Australian Hobby)			
629.	24474 <i>Falco longipennis</i> subsp. <i>longipennis</i> (Australian Hobby)			
630.	<i>Favonigobius</i> sp.			
631.	24041 <i>Felis catus</i> (Cat)	Y		
632.	20216 <i>Ficinia nodosa</i> (Knotted Club Rush)			
633.	1747 <i>Ficus carica</i> (Common Fig)	Y		
634.	894 <i>Fimbristylis velata</i>			
635.	32469 <i>Fissidens taylorii</i> var. <i>taylorii</i>			
636.	6221 <i>Foeniculum vulgare</i> (Fennel)	Y		
637.	40241 <i>Fraxinus angustifolia</i>	Y		
638.	18392 <i>Freesia alba</i> x <i>leichtlinii</i>	Y		
639.	25727 <i>Fulica atra</i> (Eurasian Coot)			
640.	24761 <i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)			
641.	2969 <i>Fumaria capreolata</i> (Whiteflower Fumitory)	Y		
642.	2971 <i>Fumaria muralis</i> (Wall Fumitory)	Y		
643.	32370 <i>Funaria hygrometrica</i>			
644.	902 <i>Gahnia decomposita</i>			
645.	34028 <i>Galaxias occidentalis</i> (Western Minnow)			
646.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
647.	24763 <i>Gallinula tenebrosa</i> subsp. <i>tenebrosa</i> (Dusky Moorhen)			
648.	25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)			
649.	<i>Gallus gallus</i>			
650.	20346 <i>Gamochaeta coarctata</i>	Y		
651.	20475 <i>Gastrolobium capitatum</i>			
652.	20505 <i>Gastrolobium celsianum</i>			
653.	20473 <i>Gastrolobium ebracteolatum</i>			
654.	20483 <i>Gastrolobium linearifolium</i>			

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655.	3933 <i>Gastrolobium villosum</i> (Crinkle-leaved Poison)			
656.	42314 <i>Gavicalis virescens</i> (Singing Honeyeater)			
657.	16311 <i>Gazania linearis</i>	Y		
658.	24959 <i>Gehyra variegata</i>			
659.	32376 <i>Gemmabryum dichotomum</i>			
660.	<i>Gerres subfasciatus</i>			
661.	25530 <i>Gerygone fusca</i> (Western Gerygone)			
662.	1517 <i>Gladiolus alatus</i>	Y		
663.	1520 <i>Gladiolus caryophyllaceus</i> (Wild Gladiolus)	Y		
664.	1524 <i>Gladiolus undulatus</i> (Wild Gladiolus)	Y		
665.	33620 <i>Glischrocaryon angustifolium</i>			
666.	6143 <i>Glischrocaryon aureum</i> (Common Popflower)			
667.	30918 <i>Glossopsitta concinna</i> (Musk Lorikeet)	Y		
668.	7060 <i>Glossostigma diandrum</i>			
669.	47962 <i>Glyciphila melanops</i> (Tawny-crowned Honeyeater)			
670.	6587 <i>Gomphocarpus fruticosus</i> (Narrowleaf Cottonbush)	Y		
671.	3945 <i>Gompholobium aristatum</i>			
672.	10909 <i>Gompholobium confertum</i>			
673.	3950 <i>Gompholobium knightianum</i>			
674.	3951 <i>Gompholobium marginatum</i>			
675.	3954 <i>Gompholobium polymorphum</i>			
676.	11083 <i>Gompholobium scabrum</i>			
677.	3957 <i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			
678.	6149 <i>Gonocarpus cordiger</i>			
679.	6150 <i>Gonocarpus diffusus</i>			
680.	6160 <i>Gonocarpus paniculatus</i>			
681.	6161 <i>Gonocarpus pithyoides</i>			
682.	<i>Gonorynchus greyi</i>			
683.	29362 <i>Goodenia coerulea</i>			
684.	12551 <i>Goodenia micrantha</i>			
685.	7538 <i>Goodenia pulchella</i>			
686.	19286 <i>Goodenia pulchella</i> subsp. Coastal Plain A (M. Hislop 634)			
687.	26876 <i>Gracilaria verrucosa</i>			
688.	<i>Gracula religiosa</i>			
689.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
690.	37500 <i>Grammatotheca bergiana</i> var. <i>bergiana</i>	Y		
691.	14282 <i>Gratiola pubescens</i>			
692.	2032 <i>Grevillea leucopteris</i> (White Plume Grevillea)			
693.	8836 <i>Grevillea obtusifolia</i> (Obtuse Leaved Grevillea)			
694.	2066 <i>Grevillea pilulifera</i> (Woolly-flowered Grevillea)			
695.	2119 <i>Grevillea vestita</i>			
696.	<i>Gymnopilus allantopus</i>			
697.	<i>Gymnopilus purpuratus</i>			
698.	2788 <i>Gyrostemon subnudus</i>			
699.	1464 <i>Haemodorum brevisepalum</i>			
700.	1468 <i>Haemodorum laxum</i>			
701.	1472 <i>Haemodorum simplex</i>			
702.	1474 <i>Haemodorum sparsiflorum</i>			
703.	1475 <i>Haemodorum spicatum</i> (Mardja)			
704.	2143 <i>Hakea conchifolia</i> (Shell-leaved Hakea)			
705.	2146 <i>Hakea costata</i> (Ribbed Hakea)			
706.	2158 <i>Hakea erinacea</i> (Hedge-hog Hakea)			
707.	2175 <i>Hakea lissocarpha</i> (Honey Bush)			
708.	2197 <i>Hakea prostrata</i> (Harsh Hakea)			
709.	17557 <i>Hakea recurva</i> subsp. <i>recurva</i>			
710.	2203 <i>Hakea ruscifolia</i> (Candle Hakea)			
711.	2212 <i>Hakea sulcata</i> (Furrowed Hakea)			
712.	2214 <i>Hakea trifurcata</i> (Two-leaf Hakea)			
713.	2216 <i>Hakea varia</i> (Variable-leaved Hakea)			
714.	24293 <i>Haliaeetus leucogaster</i> (White-bellied Sea-Eagle)			
715.	24295 <i>Haliastur spheurnus</i> (Whistling Kite)			
716.	24689 <i>Halobaena caerulea</i> (Blue Petrel)			
717.	24296 <i>Hamirostra isura</i> (Square-tailed Kite)			
718.	3961 <i>Hardenbergia comptoniana</i> (Native Wisteria)			
719.	38791 <i>Hebeloma crustuliniforme</i>			
720.	25408 <i>Heleioporus albopunctatus</i> (Western Spotted Frog)			
721.	25409 <i>Heleioporus barycragus</i> (Hooting Frog)			
722.	25410 <i>Heleioporus eyrei</i> (Moaning Frog)			
723.	25412 <i>Heleioporus psammophilus</i> (Sand Frog)			
724.	8024 <i>Helichrysum leucopsidium</i>			



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725.	3016 <i>Heliophila pusilla</i>	Y		
726.	11451 <i>Hemarthria uncinata</i> var. <i>uncinata</i>			
727.	16933 <i>Hemiandra glabra</i>			
728.	6838 <i>Hemiandra linearis</i> (Speckled Snakebush)			
729.	6839 <i>Hemiandra pungens</i> (Snakebush)			
730.	<i>Hemicloea sublimbata</i>			
731.	25115 <i>Hemiergis initialis</i> subsp. <i>initialis</i>			
732.	25119 <i>Hemiergis quadrilineata</i>			
733.	41020 <i>Hemiphora bartlingii</i> (Woolly Dragon)			
734.	<i>Henicops dentatus</i>			
735.	1293 <i>Hensmania turbinata</i>			
736.	1526 <i>Hesperantha falcata</i>	Y		
737.	5108 <i>Hibbertia acerosa</i> (Needle Leaved Guinea Flower)			
738.	5109 <i>Hibbertia amplexicaulis</i>			
739.	5112 <i>Hibbertia aurea</i>			
740.	5114 <i>Hibbertia commutata</i>			
741.	5116 <i>Hibbertia crassifolia</i>			
742.	20051 <i>Hibbertia diamesogenos</i>			
743.	5134 <i>Hibbertia huegelii</i>			
744.	5135 <i>Hibbertia hypericoides</i> (Yellow Buttercups)			
745.	45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			
746.	5154 <i>Hibbertia perfoliata</i>			
747.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
748.	43280 <i>Hibbertia sericosepala</i>			
749.	5172 <i>Hibbertia stellaris</i> (Orange Stars)			
750.	48381 <i>Hibbertia striata</i>			
751.	5173 <i>Hibbertia subvaginata</i>			
752.	48241 <i>Hibiscus diversifolius</i> subsp. <i>diversifolius</i>	Y		
753.	47965 <i>Hieraaetus morphnoides</i> (Little Eagle)			
754.	25734 <i>Himantopus himantopus</i> (Black-winged Stilt)			
755.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
756.	<i>Hogna crispipes</i>			
757.	<i>Hogna kuyani</i>			
758.	<i>Hohenbuehelia petaloides</i>			
759.	<i>Holconia westralia</i>			
760.	<i>Holocnemus pluchei</i>			
761.	6222 <i>Homalosciadium homalocarpum</i>			
762.	5816 <i>Homalospermum firmum</i>			
763.	449 <i>Hordeum leporinum</i> (Barley Grass)	Y		
764.	3966 <i>Hovea pungens</i> (Devil's Pins, Puyenak)			
765.	3968 <i>Hovea trisperma</i> (Common Hovea)			
766.	12859 <i>Hovea trisperma</i> var. <i>trisperma</i>			
767.	18296 <i>Humulus lupulus</i>	Y		
768.	12741 <i>Hyalosperma cotula</i>			
769.	5216 <i>Hybanthus calycinus</i> (Wild Violet)			
770.	166 <i>Hydrilla verticillata</i> (Water Thyme)			
771.	6226 <i>Hydrocotyle callicarpa</i> (Small Pennywort)			
772.	6229 <i>Hydrocotyle diantha</i>			
773.	452 <i>Hyparrhenia hirta</i> (Tambookie Grass)	Y		
774.	5180 <i>Hypericum gramineum</i> (Small St John's Wort)			
775.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
776.	35074 <i>Hypocalymma angustifolium</i> subsp. <i>Dandaragan plateau</i> (S. Patrick 702A)			
777.	35070 <i>Hypocalymma angustifolium</i> subsp. <i>Swan Coastal Plain</i> (G.J. Keighery 16777)			
778.	5825 <i>Hypocalymma robustum</i> (Swan River Myrtle)			
779.	8086 <i>Hypochoeris glabra</i> (Smooth Catsear)	Y		
780.	9352 <i>Hypochoeris radicata</i> (Flat Weed, Cats-ear)	Y		
781.	1070 <i>Hypolaena exsulca</i>			
782.	17841 <i>Hypolaena pubescens</i>			
783.	<i>Idiommata blackwalli</i>			
784.	48545 <i>Inocybe sabulosa</i>			
785.	48549 <i>Inocybe subferruginea</i>			
786.	48550 <i>Inocybe subflavospora</i>			
787.	6620 <i>Ipomoea cairica</i> (Coast Morning Glory)	Y		
788.	6630 <i>Ipomoea indica</i> (Morning Glory)	Y		
789.	20200 <i>Isolepis cernua</i> var. <i>setiformis</i>			
790.	912 <i>Isolepis cyperoides</i>			
791.	914 <i>Isolepis hookeriana</i> (Bristle Club Rush)			
792.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
793.	10831 <i>Isolepis prolifera</i> (Budding Club-rush)	Y		
794.	924 <i>Isolepis stellata</i> (Star Club-rush)			

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795.	<i>Isometroides vescus</i>			
796.	<i>Isopeda leishmanni</i>			
797.	<i>Isopedella cana</i>			
798.	<i>Isopedella tindalei</i>			
799.	2221 <i>Isopogon asper</i>			
800.	2229 <i>Isopogon dubius</i> (Pincushion Coneflower)			
801.	7396 <i>Isotoma hypocrateriformis</i> (Woodbridge Poison)			
802.	3992 <i>Isotropis cuneifolia</i> (Granny Bonnets)			
803.	19700 <i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>			
804.	1534 <i>Ixia polystachya</i> (Variable Ixia)	Y		
805.	14783 <i>Jacksonia calcicola</i>			
806.	4010 <i>Jacksonia floribunda</i> (Holly Pea)			
807.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
808.	4018 <i>Jacksonia lehmannii</i>			
809.	4029 <i>Jacksonia sternbergiana</i> (Stinkwood, Kapur)			
810.	1295 <i>Johnsonia acaulis</i>			
811.	1298 <i>Johnsonia pubescens</i> (Pipe Lily)			
812.	8328 <i>Juncus amabilis</i>			
813.	1176 <i>Juncus aridicola</i>			
814.	1179 <i>Juncus caespiticius</i> (Grassy Rush)			
815.	1180 <i>Juncus capitatus</i> (Capitate Rush)	Y		
816.	1184 <i>Juncus holoschoenus</i> (Jointleaf Rush)			
817.	11922 <i>Juncus kraussii</i> subsp. <i>australiensis</i>			
818.	1188 <i>Juncus pallidus</i> (Pale Rush)			
819.	1189 <i>Juncus pauciflorus</i> (Loose Flower Rush)			
820.	1190 <i>Juncus planifolius</i> (Broadleaf Rush)			
821.	1195 <i>Juncus subsecundus</i> (Finger Rush)			
822.	4044 <i>Kennedia prostrata</i> (Scarlet Runner)			
823.	4045 <i>Kennedia stirlingii</i> (Bushy Kennedia)			
824.	7068 <i>Kickxia spuria</i> (Roundleaf Toadflax)	Y		
825.	15498 <i>Kunzea glabrescens</i> (Spearwood)			
826.	17461 <i>Kunzea micrantha</i> subsp. <i>micrantha</i>			
827.	17785 <i>Kunzea micrantha</i> subsp. <i>petiolata</i>			
828.	17505 <i>Kunzea praestans</i>			
829.	5841 <i>Kunzea recurva</i>			
830.	<i>Laccaria lateritia</i>			
831.	38802 <i>Laccocephalum tumulosum</i>			
832.	16091 <i>Lachenalia bulbifera</i>	Y		
833.	20019 <i>Lachnagrostis filiformis</i>			
834.	38803 <i>Lachnum virgineum</i>			
835.	8095 <i>Lactuca saligna</i> (Wild Lettuce, Willow-leaf Lettuce)	Y		
836.	18585 <i>Lagenophora huegelii</i>			
837.	467 <i>Lagurus ovatus</i> (Hare's Tail Grass)	Y		
838.	<i>Lampona cylindrata</i>			
839.	<i>Lamponina elongata</i>			
840.	6733 <i>Lantana camara</i> (Common Lantana)	Y		
841.	24511 <i>Larus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Silver Gull)			
842.	4052 <i>Latrobea tenella</i>			
843.	<i>Latrodectus hasseltii</i>			
844.	38324 <i>Lavandula dentata</i> var. <i>candicans</i>	Y		
845.	38323 <i>Lavandula stoechas</i> subsp. <i>stoechas</i>	Y		
846.	1307 <i>Laxmannia ramosa</i> (Branching Lily)			
847.	11911 <i>Laxmannia ramosa</i> subsp. <i>ramosa</i>			
848.	11464 <i>Laxmannia sessiliflora</i> subsp. <i>australis</i>			
849.	1309 <i>Laxmannia squarrosa</i>			
850.	7568 <i>Lechenaultia biloba</i> (Blue Leschenaultia)			
851.	7574 <i>Lechenaultia floribunda</i> (Free-flowering Leschenaultia)			
852.	44490 <i>Leontodon rhagadioloides</i>	Y		
853.	19989 <i>Lepidium didymum</i>	Y		
854.	1075 <i>Lepidobolus preissianus</i>			
855.	18074 <i>Lepidobolus preissianus</i> subsp. <i>preissianus</i>			
856.	925 <i>Lepidosperma angustatum</i>			
857.	42742 <i>Lepidosperma calcicola</i>			
858.	930 <i>Lepidosperma costale</i>			
859.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
860.	940 <i>Lepidosperma pubisquameum</i>			
861.	944 <i>Lepidosperma scabrum</i>			
862.	<i>Lepidosperma</i> sp.			
863.	945 <i>Lepidosperma squamatum</i>			
864.	946 <i>Lepidosperma striatum</i>			

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865.	1653 <i>Leporella fimbriata</i> (Hare Orchid)			
866.	1077 <i>Leptocarpus canus</i> (Hoary Twine-rush)			
867.	1078 <i>Leptocarpus coangustatus</i>			
868.	19833 <i>Leptocarpus laxus</i>			
869.	46382 <i>Leptocarpus roycei</i>			
870.	1080 <i>Leptocarpus scariosus</i>			
871.	46383 <i>Leptocarpus tephrrinus</i>			
872.	15418 <i>Leptoceras menziesii</i>			
873.	2344 <i>Leptomeria empetriformis</i>			
874.	2350 <i>Leptomeria pauciflora</i> (Sparse-flowered Currant Bush)			
875.	<i>Leptospermum continentale</i>			
876.	5850 <i>Leptospermum laevigatum</i> (Coast Teatree)	Y		
877.	5857 <i>Leptospermum spinescens</i>			
878.	1088 <i>Lepyrodia macra</i> (Large Scale Rush)			
879.	1090 <i>Lepyrodia muirii</i>			
880.	25131 <i>Lerista distinguenda</i>			
881.	25133 <i>Lerista elegans</i>			
882.	25148 <i>Lerista lineopunctulata</i>			
883.	25165 <i>Lerista praepedita</i>			
884.	6360 <i>Leucopogon australis</i> (Spiked Beard-heath)			
885.	6374 <i>Leucopogon conostephioides</i>			
886.	6397 <i>Leucopogon glaucifolius</i>			
887.	6402 <i>Leucopogon hirsutus</i>			
888.	6425 <i>Leucopogon oxycedrus</i>			
889.	6427 <i>Leucopogon parviflorus</i> (Coast Beard-heath)			
890.	6434 <i>Leucopogon polymorphus</i>			
891.	6436 <i>Leucopogon propinquus</i>			
892.	6439 <i>Leucopogon pulchellus</i> (Beard-heath)			
893.	6440 <i>Leucopogon racemosus</i>			
894.	40803 <i>Leucopogon squarrosus</i> subsp. <i>squarrosus</i>			
895.	7674 <i>Levenhookia preissii</i> (Preiss's Stylewort)			
896.	7676 <i>Levenhookia pusilla</i> (Midget Stylewort)			
897.	7677 <i>Levenhookia stipitata</i> (Common Stylewort)			
898.	25005 <i>Lialis burtonis</i>			
899.	39041 <i>Licea kleistobolus</i>			
900.	25659 <i>Lichenostomus leucotis</i> (White-eared Honeyeater)			
901.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
902.	24582 <i>Lichmera indistincta</i> subsp. <i>indistincta</i> (Brown Honeyeater)			
903.	<i>Limnochares australica</i>			
904.	25415 <i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
905.	7075 <i>Linaria maroccana</i>	Y		
906.	4363 <i>Linum trigynum</i> (French Flax)	Y		
907.	4364 <i>Linum usitatissimum</i> (Flax)	Y		
908.	36179 <i>Liparophyllum violifolium</i>			
909.	25378 <i>Litoria adelaidensis</i> (Slender Tree Frog)			
910.	25388 <i>Litoria moorei</i> (Motorbike Frog)			
911.	9289 <i>Lobelia anceps</i> (Angled Lobelia)			
912.	7402 <i>Lobelia gibbosa</i> (Tall Lobelia)			
913.	7407 <i>Lobelia rhytidosperra</i> (Wrinkled-seeded Lobelia)			
914.	7408 <i>Lobelia tenuior</i> (Slender Lobelia)			
915.	3048 <i>Lobularia maritima</i> (Sweet Alyssum)	Y		
916.	9356 <i>Logfia gallica</i>	Y		
917.	476 <i>Lolium perenne</i> (Perennial Ryegrass)	Y		
918.	478 <i>Lolium rigidum</i> (Wimmera Ryegrass)	Y		
919.	11073 <i>Lolium x hybridum</i>	Y		
920.	1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)			
921.	1228 <i>Lomandra hermaphrodita</i>			
922.	1234 <i>Lomandra nigricans</i>			
923.	1236 <i>Lomandra odora</i> (Tiered Matrush)			
924.	1239 <i>Lomandra preissii</i>			
925.	1246 <i>Lomandra suaveolens</i>			
926.	<i>Longepi woodman</i>			
927.	<i>Lophoclinium isura</i>			
928.	4059 <i>Lotus angustissimus</i> (Narrowleaf Trefoil)	Y		
929.	8564 <i>Lotus subbiflorus</i>	Y		
930.	4063 <i>Lotus uliginosus</i> (Greater Lotus)	Y		
931.	44680 <i>Ludwigia repens</i>	Y		
932.	4065 <i>Lupinus angustifolius</i> (Narrowleaf Lupin)	Y		
933.	1198 <i>Luzula meridionalis</i> (Field Woodrush)			
934.	<i>Lycosa australicola</i>			

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935.	<i>Lycosa gilberta</i>			
936.	1097 <i>Lyginia barbata</i>			
937.	18049 <i>Lyginia imberbis</i>			
938.	2396 <i>Lysiana casuarinae</i>			
939.	36375 <i>Lysimachia arvensis</i> (Pimpernel)	Y		
940.	6456 <i>Lysinema ciliatum</i> (Curry Flower)			
941.	34736 <i>Lysinema pentapetalum</i>			
942.	2838 <i>Macarthuria apetala</i>			
943.	2839 <i>Macarthuria australis</i>			
944.	49003 <i>Macrolepiota turbinata</i>			
945.	24132 <i>Macropus fuliginosus</i> (Western Grey Kangaroo)			
946.	24135 <i>Macropus robustus</i> subsp. <i>erubescens</i> (Euro, Biggada)			
947.	18119 <i>Macrozamia fraseri</i>			
948.	85 <i>Macrozamia riedlei</i> (Zamia, Djiridji)			
949.	24326 <i>Malacorhynchus membranaceus</i> (Pink-eared Duck)			
950.	25651 <i>Malurus lamberti</i> (Variegated Fairy-wren)			
951.	25652 <i>Malurus leucopterus</i> (White-winged Fairy-wren)			
952.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
953.	24552 <i>Malurus splendens</i> subsp. <i>splendens</i> (Splendid Fairy-wren)			
954.	24583 <i>Manorina flavigula</i> (Yellow-throated Miner)			
955.	<i>Maratus chrysomelas</i>			
956.	<i>Maratus pavonis</i>			
957.	<i>Maratus spicatus</i>			
958.	<i>Marchantia berteriana</i>			
959.	74 <i>Marsilea drummondii</i> (Common Nardoo)			
960.	77 <i>Marsilea mutica</i>			
961.	<i>Masasteron mas</i>			
962.	<i>Masasteron tuart</i>			
963.	4072 <i>Medicago arabica</i> (Spotted Medic)	Y		
964.	4079 <i>Medicago polymorpha</i> (Burr Medic)	Y		
965.	25758 <i>Megalurus gramineus</i> (Little Grassbird)			
966.	34676 <i>Meionectes brownii</i> (Swamp Raspwort)			
967.	5900 <i>Melaleuca cuticularis</i> (Saltwater Paperbark)			
968.	5922 <i>Melaleuca lanceolata</i> (Rottnest Teatree, Moonah)			
969.	5926 <i>Melaleuca lateritia</i> (Robin Redbreast Bush)			
970.	5936 <i>Melaleuca megacephala</i>			
971.	5952 <i>Melaleuca preissiana</i> (Moonah)			
972.	5959 <i>Melaleuca raphiophylla</i> (Swamp Paperbark)			
973.	5964 <i>Melaleuca serata</i>			
974.	5978 <i>Melaleuca teretifolia</i> (Banbar)			
975.	5983 <i>Melaleuca trichophylla</i>			
976.	5987 <i>Melaleuca viminea</i> (Mohan)			
977.	13280 <i>Melaleuca viminea</i> subsp. <i>viminea</i>			
978.	47997 <i>Melanodryas cucullata</i> (Hooded Robin)			
979.	14985 <i>Melinis repens</i>	Y		
980.	25663 <i>Melithreptus brevirostris</i> (Brown-headed Honeyeater)			
981.	24586 <i>Melithreptus brevirostris</i> subsp. <i>leucogenys</i> (Brown-headed Honeyeater)			
982.	25184 <i>Menetia greyii</i>			
983.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)			
984.	953 <i>Mesomelaena graciliceps</i>			
985.	955 <i>Mesomelaena pseudostygia</i>			
986.	957 <i>Mesomelaena tetragona</i> (Semaphore Sedge)			
987.	<i>Microcarbo melanoleucos</i>			
988.	6897 <i>Microcorys longifolia</i>			
989.	25693 <i>Microeca fascians</i> (Jacky Winter)			
990.	485 <i>Microlaena stipoides</i> (Weeping Grass)			
991.	34158 <i>Microtis albiviridis</i>			
992.	1658 <i>Microtis atrata</i> (Swamp Mignonette Orchid)			
993.	12199 <i>Microtis familiaris</i>			
994.	10954 <i>Microtis media</i> (Tall Mignonette Orchid)			
995.	12761 <i>Microtis media</i> subsp. <i>densiflora</i>			
996.	15419 <i>Microtis media</i> subsp. <i>media</i>			
997.	8105 <i>Millotia myosotidifolia</i>			
998.	8106 <i>Millotia tenuifolia</i> (Soft Millotia)			
999.	14344 <i>Millotia tenuifolia</i> var. <i>tenuifolia</i> (Soft Millotia)			
1000.	7085 <i>Misopates orontium</i> (Lesser Snapdragon)	Y		
1001.	<i>Missulena granulosa</i>			
1002.	<i>Missulena occatoria</i>			
1003.	<i>Mituliodon tarantulinus</i>			
1004.	<i>Molycris vokes</i>			

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1005.	<i>Monacanthus chinensis</i>			
1006.	29418 <i>Monoculus monstrosus</i>	Y		
1007.	37440 <i>Monopsis debilis</i> var. <i>depressa</i>	Y		
1008.	4662 <i>Monotaxis grandiflora</i> (Diamond of the Desert)			
1009.	19585 <i>Monotaxis grandiflora</i> var. <i>grandiflora</i>			
1010.	4666 <i>Monotaxis occidentalis</i>			
1011.	19179 <i>Moraea flaccida</i> (One-leaf Cape Tulip)	Y		
1012.	19180 <i>Moraea miniata</i> (Two-leaf Cape Tulip)	Y		
1013.	25240 <i>Morelia spilota</i> subsp. <i>imbricata</i> (Carpet Python)			
1014.	25191 <i>Morethia lineocellata</i>			
1015.	25192 <i>Morethia obscura</i>			
1016.	2415 <i>Muehlenbeckia polybotrya</i>			
1017.	<i>Mugil cephalus</i>			
1018.	24223 <i>Mus musculus</i> (House Mouse)	Y		
1019.	<i>Myandra bicincta</i>			
1020.	25610 <i>Myiagra inquieta</i> (Restless Flycatcher)			
1021.	25420 <i>Myobatrachus gouldii</i> (Turtle Frog)			
1022.	7289 <i>Myoporum caprarioides</i> (Slender Myoporum)			
1023.	8114 <i>Myriocephalus appendiculatus</i> (White-tip Myriocephalus)			
1024.	6185 <i>Myriophyllum aquaticum</i> (Brazilian Water Milfoil)	Y		
1025.	6189 <i>Myriophyllum crispatum</i>			
1026.	6192 <i>Myriophyllum drummondii</i>			
1027.	6195 <i>Myriophyllum limnophilum</i>			
1028.	6199 <i>Myriophyllum tillaeoides</i>			
1029.	<i>Nannoperca vittata</i>			
1030.	44496 <i>Narcissus tazetta</i> subsp. <i>italicus</i>	Y		
1031.	<i>Neatypus obliquus</i>			
1032.	25248 <i>Neelaps bimaculatus</i> (Black-naped Snake)			
1033.	25426 <i>Neobatrachus pelobatoides</i> (Humming Frog)			
1034.	24738 <i>Neophema elegans</i> (Elegant Parrot)			
1035.	<i>Nephila edulis</i>			
1036.	492 <i>Neurachne alopecuroidea</i> (Foxtail Mulga Grass)			
1037.	6970 <i>Nicandra physalodes</i> (Apple of Peru)	Y		
1038.	<i>Nicodamus mainae</i>			
1039.	25747 <i>Ninox connivens</i> (Barking Owl)			
1040.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
1041.	<i>Notiasemus glauerti</i>			
1042.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
1043.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
1044.	24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)			
1045.	2922 <i>Nymphaea mexicana</i> (Yellow Waterlily)	Y		
1046.	<i>Ocrisiona leucocomis</i>			
1047.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
1048.	<i>Oecobius navus</i>			
1049.	6138 <i>Oenothera drummondii</i> (Beach Evening Primrose)	Y		
1050.	16347 <i>Oenothera laciniata</i>	Y		
1051.	35416 <i>Oenothera lindheimeri</i>	Y		
1052.	6142 <i>Oenothera stricta</i> (Common Evening Primrose)	Y		
1053.	8133 <i>Olearia elaeophila</i>			
1054.	8143 <i>Olearia paucidentata</i> (Autumn Scrub Daisy)			
1055.	<i>Ommatoiulus moreleti</i>			
1056.	<i>Ommatoiulus moreletii</i>			
1057.	38816 <i>Omphalotus nidiformis</i>			
1058.	18255 <i>Opercularia vaginata</i> (Dog Weed)			
1059.	46313 <i>Orianthera flaviflora</i>			
1060.	36177 <i>Ornduffia albiflora</i>			
1061.	4114 <i>Ornithopus pinnatus</i> (Slender Serradella)	Y		
1062.	7122 <i>Orobancha minor</i> (Lesser Broomrape)	Y		
1063.	1537 <i>Orthrosanthus laxus</i> (Morning Iris)			
1064.	11442 <i>Orthrosanthus laxus</i> var. <i>gramineus</i> (Grass-leaved Orthrosanthus)			
1065.	11749 <i>Orthrosanthus laxus</i> var. <i>laxus</i> (Morning Iris)			
1066.	24085 <i>Oryctolagus cuniculus</i> (Rabbit)	Y		
1067.	17756 <i>Osteospermum ecklonis</i>	Y		
1068.	168 <i>Ottelia ovalifolia</i> (Swamp Lily)			
1069.	34016 <i>Ovis aries</i> (Sheep)			
1070.	33256 <i>Oxalis bowiei</i> (Bowie Wood Sorrel)	Y		
1071.	30375 <i>Oxalis exilis</i>			
1072.	4352 <i>Oxalis glabra</i>	Y		
1073.	4356 <i>Oxalis pes-caprae</i> (Soursob)	Y		
1074.	4358 <i>Oxalis purpurea</i> (Largeflower Wood Sorrel)	Y		

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1075.	<i>Ozarchaea westraliensis</i>			
1076.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
1077.	<i>Panus fasciatus</i>			
1078.	39056 <i>Paradiacheopsis fimbriata</i>			
1079.	<i>Paralampona marangaroo</i>			
1080.	516 <i>Parapholis incurva</i> (Coast Barbgrass)	Y		
1081.	<i>Paraplectanoides crassipes</i>			
1082.	3618 <i>Paraserianthes lophantha</i> (Albizia)			
1083.	17114 <i>Paraserianthes lophantha</i> subsp. <i>lophantha</i>			
1084.	25253 <i>Parasuta gouldii</i>			
1085.	25255 <i>Parasuta nigriceps</i>			
1086.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
1087.	24625 <i>Pardalotus punctatus</i> subsp. <i>punctatus</i> (Spotted Pardalote)			
1088.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
1089.	527 <i>Paspalum dilatatum</i>	Y		
1090.	532 <i>Paspalum urvillei</i> (Vasey Grass)	Y		
1091.	1546 <i>Patersonia juncea</i> (Rush Leaved Patersonia)			
1092.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
1093.	30471 <i>Patersonia occidentalis</i> var. <i>angustifolia</i>			
1094.	30472 <i>Patersonia occidentalis</i> var. <i>occidentalis</i>			
1095.	43761 <i>Pauridia occidentalis</i> var. <i>occidentalis</i>			
1096.	43762 <i>Pauridia occidentalis</i> var. <i>quadriloba</i>			
1097.	<i>Pediana occidentalis</i>			
1098.	4343 <i>Pelargonium capitatum</i> (Rose Pelargonium)	Y		
1099.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
1100.	40422 <i>Pentameris pallida</i>	Y		
1101.	48805 <i>Pentameris patula</i>	Y		
1102.	6006 <i>Pericalymma ellipticum</i> (Swamp Teatree)			
1103.	16477 <i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			
1104.	16478 <i>Pericalymma ellipticum</i> var. <i>floridum</i>			
1105.	13911 <i>Persicaria decipiens</i>			
1106.	16983 <i>Persicaria maculosa</i>	Y		
1107.	2258 <i>Persoonia comata</i>			
1108.	2273 <i>Persoonia saccata</i> (Snottygobble)			
1109.	48060 <i>Petrochelidon ariel</i> (Fairy Martin)			
1110.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
1111.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
1112.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
1113.	2284 <i>Petrophile biloba</i> (Granite Petrophile)			
1114.	2286 <i>Petrophile brevifolia</i>			
1115.	48781 <i>Petrophile brevifolia</i> subsp. <i>brevifolia</i>			
1116.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
1117.	2301 <i>Petrophile macrostachya</i>			
1118.	2308 <i>Petrophile seminuda</i>			
1119.	19825 <i>Petrorhagia dubia</i>	Y		
1120.	<i>Peziza repanda</i>			
1121.	<i>Peziza</i> sp.			
1122.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
1123.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
1124.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
1125.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
1126.	24668 <i>Phalacrocorax varius</i> subsp. <i>hypoleucos</i> (Pied Cormorant)			
1127.	547 <i>Phalaris angusta</i>	Y		
1128.	551 <i>Phalaris minor</i> (Lesser Canary Grass)	Y		
1129.	552 <i>Phalaris paradoxa</i> (Paradoxa Grass)	Y		
1130.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
1131.	25587 <i>Phaps elegans</i> (Brush Bronzewing)			
1132.	20460 <i>Pheladenia deformis</i>			
1133.	<i>Phenasteron longiconductor</i>			
1134.	<i>Phenasteron machinosum</i>			Y
1135.	18529 <i>Philotheca spicata</i> (Pepper and Salt)			
1136.	1172 <i>Philydrella drummondii</i>			
1137.	1478 <i>Phlebotocarya ciliata</i>			
1138.	<i>Pholcus phalangioides</i>			
1139.	<i>Pholiota highlandensis</i>			
1140.	<i>Phryganoporus candidus</i>			
1141.	48071 <i>Phylidonyris niger</i> (White-cheeked Honeyeater)			
1142.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
1143.	16825 <i>Phyllangium divergens</i>			
1144.	16177 <i>Phyllangium paradoxum</i>			



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1145.	4675 <i>Phyllanthus calycinus</i> (False Boronia)			
1146.	39079 <i>Physarum viride</i>			
1147.	2793 <i>Phytolacca octandra</i> (Red Ink Plant)	Y		
1148.	<i>Phytophthora cinnamomi</i>			
1149.	6011 <i>Pileanthus peduncularis</i> (Coppercups)			
1150.	5231 <i>Pimelea angustifolia</i> (Narrow-leaved Pimelea)			
1151.	11402 <i>Pimelea imbricata</i> var. <i>piligera</i>			
1152.	5254 <i>Pimelea leucantha</i>			
1153.	5264 <i>Pimelea spectabilis</i> (Bunjong)			
1154.	5268 <i>Pimelea sulphurea</i> (Yellow Banjine)			
1155.	557 <i>Piptatherum miliaceum</i> (Rice Millet)	Y		
1156.	48975 <i>Pisolithus microcarpus</i>			
1157.	<i>Pisolithus</i> sp.			
1158.	1045 <i>Pistia stratiotes</i> (Water Lettuce)	Y		
1159.	8165 <i>Pithocarpa pulchella</i> (Beautiful Pithocarpa)			
1160.	18353 <i>Pithocarpa pulchella</i> var. <i>pulchella</i>			
1161.	7303 <i>Plantago lanceolata</i> (Ribwort Plantain)	Y		
1162.	7304 <i>Plantago major</i> (Greater Plantain)	Y		
1163.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
1164.	<i>Platycephalus indicus</i>			
1165.	25720 <i>Platycercus icterotis</i> (Western Rosella)			
1166.	24747 <i>Platycercus spurius</i> (Red-capped Parrot)			
1167.	25721 <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)			
1168.	6249 <i>Platysace compressa</i> (Tapeworm Plant)			
1169.	6253 <i>Platysace filiformis</i>			
1170.	4524 <i>Platytheca galioides</i>			
1171.	25007 <i>Pletholax gracilis</i> subsp. <i>gracilis</i> (Keeled Legless Lizard)			
1172.	571 <i>Poa annua</i> (Winter Grass)	Y		
1173.	578 <i>Poa porphyroclados</i>			
1174.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
1175.	24679 <i>Podargus strigoides</i> subsp. <i>brachypterus</i> (Tawny Frogmouth)			
1176.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
1177.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
1178.	8177 <i>Podolepis lessonii</i>			
1179.	8182 <i>Podotheca angustifolia</i> (Sticky Longheads)			
1180.	8183 <i>Podotheca chrysantha</i> (Yellow Podotheca)			
1181.	8184 <i>Podotheca gnaphalioides</i> (Golden Long-heads)			
1182.	25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)			
1183.	24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)			
1184.	24681 <i>Polioccephalus poliocephalus</i> (Hoary-headed Grebe)			
1185.	2905 <i>Polycarpon tetraphyllum</i> (Fourleaf Allseed)	Y		
1186.	2419 <i>Polygonum aviculare</i> (Wireweed)	Y		
1187.	582 <i>Polypogon monspeliensis</i> (Annual Beardgrass)	Y		
1188.	4688 <i>Poranthera drummondii</i>			
1189.	4689 <i>Poranthera ericoides</i> (Heath Poranthera)			
1190.	4691 <i>Poranthera microphylla</i> (Small Poranthera)			
1191.	44729 <i>Porostereum crassum</i>			
1192.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
1193.	24767 <i>Porphyrio porphyrio</i> subsp. <i>bellus</i> (Purple Swamphen)			
1194.	24769 <i>Porzana fluminea</i> (Australian Spotted Crane)			
1195.	25732 <i>Porzana pusilla</i> (Baillon's Crane)			
1196.	24771 <i>Porzana tabuensis</i> (Spotless Crane)			
1197.	122 <i>Posidonia angustifolia</i>			
1198.	109 <i>Potamogeton crispus</i> (Curly Pondweed)			
1199.	110 <i>Potamogeton drummondii</i>			
1200.	1670 <i>Prasophyllum drummondii</i> (Swamp Leek Orchid)			
1201.	1671 <i>Prasophyllum elatum</i> (Tall Leek Orchid)			
1202.	1673 <i>Prasophyllum gibbosum</i> (Humped Leek Orchid)			
1203.	1674 <i>Prasophyllum giganteum</i> (Bronze Leek Orchid)			
1204.	1676 <i>Prasophyllum hians</i> (Yawning Leek Orchid)			
1205.	1677 <i>Prasophyllum macrostachyum</i> (Laughing Leek Orchid)			
1206.	17650 <i>Prasophyllum odoratissimum</i>			
1207.	1680 <i>Prasophyllum parvifolium</i> (Autumn Leek Orchid)			
1208.	10853 <i>Prasophyllum plumiforme</i>			
1209.	<i>Prionosternum nitidiceps</i>			
1210.	<i>Prionosternum scutatum</i>			
1211.	7121 <i>Proboscidea louisianica</i> (Purple Flower Devil's Claw)	Y		
1212.	<i>Protogarypinus giganteus</i>			
1213.	25261 <i>Pseudechis australis</i> (Mulga Snake)			
1214.	<i>Pseudolampona woodman</i>			

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1215.	24230 <i>Pseudomys albocinereus</i> (Ash-grey Mouse)			
1216.	25511 <i>Pseudonaja affinis</i> (Dugite)			
1217.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
1218.	42416 <i>Pseudonaja mengdeni</i> (Western Brown Snake)			
1219.	25263 <i>Pseudonaja modesta</i> (Ringed Brown Snake)			
1220.	25433 <i>Pseudophryne guentheri</i> (Crawling Toadlet)			
1221.	41651 <i>Pteridium esculentum</i> subsp. <i>esculentum</i>			
1222.	13255 <i>Pterochaeta paniculata</i>			
1223.	24703 <i>Pterodroma lessonii</i> (White-headed Petrel)			
1224.	15426 <i>Pterostylis aspera</i>			
1225.	48675 <i>Pterostylis atosanguinea</i>			
1226.	17267 <i>Pterostylis brevisepala</i>			
1227.	48484 <i>Pterostylis crebriflora</i>			
1228.	1687 <i>Pterostylis dilatata</i>			
1229.	48677 <i>Pterostylis ectypha</i>			
1230.	11118 <i>Pterostylis pyramidalis</i> (Snail Orchid)			
1231.	1693 <i>Pterostylis recurva</i> (Jug Orchid)			
1232.	12217 <i>Pterostylis sanguinea</i>			
1233.	1698 <i>Pterostylis vittata</i> (Banded Greenhood)			
1234.	2716 <i>Ptilotus declinatus</i> (Curved Mulla Mulla)			
1235.	2718 <i>Ptilotus drummondii</i> (Narrowleaf Mulla Mulla)			
1236.	11260 <i>Ptilotus drummondii</i> var. <i>drummondii</i> (Pussytail)			
1237.	2742 <i>Ptilotus manglesii</i> (Pom Poms, Mulamula)			
1238.	2751 <i>Ptilotus polystachyus</i> (Prince of Wales Feather)			
1239.	4181 <i>Pultenaea reticulata</i>			
1240.	42344 <i>Pumella albifrons</i> (White-fronted Honeyeater)			
1241.	<i>Purpurecephalus spurius</i>			
1242.	48835 <i>Pycnopus coccineus</i>			
1243.	25008 <i>Pygopus lepidopodus</i> (Common Scaly Foot)			
1244.	16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)			
1245.	8195 <i>Quinetia urvillei</i>			
1246.	32480 <i>Racopilum cuspidigerum</i> var. <i>convolutaceum</i>			
1247.	2933 <i>Ranunculus muricatus</i> (Sharp Buttercup)	Y		
1248.	2938 <i>Ranunculus trilobus</i> (Buttercup)	Y		
1249.	3061 <i>Raphanus raphanistrum</i> (Wild Radish)	Y		
1250.	3062 <i>Raphanus sativus</i> (Radish)	Y		
1251.	24243 <i>Rattus fuscipes</i> (Western Bush Rat)			
1252.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
1253.	<i>Raveniella cirrata</i>			
1254.	<i>Raveniella peckorum</i>			
1255.	6012 <i>Regelia ciliata</i>			
1256.	6014 <i>Regelia inops</i>			
1257.	<i>Rhabdosargus sarba</i>			
1258.	18547 <i>Rhadinothamnus anceps</i>			
1259.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
1260.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
1261.	38834 <i>Rhizopogon roseolus</i>			
1262.	13300 <i>Rhodanthe citrina</i>			
1263.	13309 <i>Rhodanthe spicata</i>			
1264.	<i>Riccia bifurca</i>			
1265.	4695 <i>Ricinocarpos glaucus</i>			
1266.	19942 <i>Ricinocarpos undulatus</i>			
1267.	4705 <i>Ricinus communis</i> (Castor Oil Plant)	Y		
1268.	<i>Rickenella fibula</i>			
1269.	1554 <i>Romulea flava</i>	Y		
1270.	14485 <i>Romulea flava</i> var. <i>minor</i>	Y		
1271.	1556 <i>Romulea rosea</i> (Guildford Grass)	Y		
1272.	11544 <i>Romulea rosea</i> var. <i>australis</i> (Guildford Grass)	Y		
1273.	3066 <i>Rorippa nasturtium-aquaticum</i> (Watercress)	Y		
1274.	10931 <i>Rosa chinensis</i> x <i>moschata</i>	Y		
1275.	2429 <i>Rumex acetosella</i> (Sorrel)	Y		
1276.	2433 <i>Rumex crispus</i> (Curled Dock)	Y		
1277.	46434 <i>Rumex hypogaeus</i>	Y		
1278.	116 <i>Ruppia polycarpa</i>			
1279.	38836 <i>Russula erumpens</i>			
1280.	40425 <i>Rytidosperma caespitosum</i>			
1281.	40426 <i>Rytidosperma occidentale</i>			
1282.	2907 <i>Sagina procumbens</i> (Spreading Pearlwort)	Y		
1283.	48433 <i>Salicornia blackiana</i>			
1284.	48430 <i>Salicornia quinqueflora</i>			

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1285.	20063	<i>Salix babylonica</i>	Y		
1286.	31594	<i>Salix cinerea</i>	Y		
1287.	44534	<i>Salix humboldtiana</i>	Y		
1288.	43840	<i>Salix matsudana</i>	Y		
1289.	6987	<i>Salpichroa origanifolia</i> (Pampas Lily of the Valley)	Y		
1290.	79	<i>Salvinia molesta</i> (Salvinia)	Y		
1291.	6483	<i>Samolus junceus</i>			
1292.	6484	<i>Samolus repens</i> (Creeping Brookweed)			
1293.	7368	<i>Scabiosa atropurpurea</i> (Purple Pincushion)	Y		
1294.	7603	<i>Scaevola canescens</i> (Grey Scaevola)			
1295.	7614	<i>Scaevola globulifera</i>			
1296.	12585	<i>Scaevola repens</i>			
1297.	13181	<i>Scaevola repens</i> var. <i>angustifolia</i>			
1298.	13182	<i>Scaevola repens</i> var. <i>repens</i>			
1299.	13152	<i>Scaevola thesioides</i> subsp. <i>thesioides</i>			
1300.	48834	<i>Schinus terebinthifolia</i>	Y		
1301.	24	<i>Schizaea fistulosa</i> (Narrow Comb Fern)			
1302.		<i>Schizophyllum commune</i>			
1303.	6263	<i>Schoenolaena juncea</i>			
1304.	968	<i>Schoenoplectus pungens</i> (Sharpleaf Rush)			
1305.	48356	<i>Schoenoplectus tabernaemontani</i>			
1306.	971	<i>Schoenus andrewsii</i>			
1307.	978	<i>Schoenus brevisetis</i>			
1308.	979	<i>Schoenus caespititius</i>			
1309.	984	<i>Schoenus curvifolius</i>			
1310.	986	<i>Schoenus efoliatus</i>			
1311.	987	<i>Schoenus elegans</i>			
1312.	992	<i>Schoenus grandiflorus</i> (Large Flowered Bogrush)			
1313.	996	<i>Schoenus laevigatus</i>			
1314.	1002	<i>Schoenus nanus</i> (Tiny Bog Rush)			
1315.	1007	<i>Schoenus pedicellatus</i>			
1316.	17614	<i>Schoenus plumosus</i>			
1317.	1011	<i>Schoenus rigens</i>			
1318.	1013	<i>Schoenus sculptus</i> (Gimlet Bog-rush)			
1319.	1017	<i>Schoenus subbulbosus</i>			
1320.	1018	<i>Schoenus subfascicularis</i>			
1321.	17409	<i>Schoenus variicellae</i>			
1322.	6033	<i>Scholtzia involucreta</i> (Spiked Scholtzia)			
1323.		<i>Scobinichthys granulatus</i>			
1324.		<i>Scolopendra laeta</i>			
1325.	6	<i>Selaginella gracillima</i> (Tiny Clubmoss)			
1326.	32433	<i>Sematophyllum homomallum</i>			
1327.	20663	<i>Senecio multicaulis</i> subsp. <i>multicaulis</i>			
1328.	8216	<i>Senecio picridioides</i>			
1329.	25884	<i>Senecio pinnatifolius</i> var. <i>latilobus</i>			
1330.	8217	<i>Senecio quadridentatus</i>			
1331.	8220	<i>Senecio vulgaris</i> (Common Groundsel)	Y		
1332.	25534	<i>Sericornis frontalis</i> (White-browed Scrubwren)			
1333.		<i>Serinus canarius</i>			
1334.		<i>Servaea melaina</i>			
1335.	2909	<i>Silene gallica</i> (French Catchfly)	Y		
1336.	15972	<i>Silene gallica</i> var. <i>gallica</i>	Y		
1337.	8224	<i>Siloxerus filifolius</i>			
1338.	8225	<i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
1339.	8227	<i>Silybum marianum</i> (Variegated Thistle)	Y		
1340.	25266	<i>Simoselaps bertholdi</i> (Jan's Banded Snake)			
1341.		<i>Smeringopus natalensis</i>			
1342.	30948	<i>Smicronis brevirostris</i> (Weebill)			
1343.	6988	<i>Solanum americanum</i> (Glossy Nightshade)	Y		
1344.	11114	<i>Solanum giganteum</i>	Y		
1345.	7017	<i>Solanum laciniatum</i> (Kangaroo Apple)	Y		
1346.	47173	<i>Solanum lycopersicum</i> (Tomato)	Y		
1347.	7022	<i>Solanum nigrum</i> (Black Berry Nightshade)	Y		
1348.	7035	<i>Solanum sisymbriifolium</i> (Viscid Nightshade)	Y		
1349.	8231	<i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
1350.	617	<i>Sorghum halepense</i> (Johnson Grass)	Y		
1351.	35236	<i>Sorghum x drummondii</i> (Sudan Grass)	Y		
1352.	1312	<i>Sowerbaea laxiflora</i> (Purple Tassels)			
1353.	1558	<i>Sparaxis bulbifera</i>	Y		
1354.	1560	<i>Sparaxis pillansii</i> (Harlequin Flower)	Y		

	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
1355.	4205	<i>Sphaerolobium linophyllum</i>			
1356.	4207	<i>Sphaerolobium medium</i>			
1357.	4211	<i>Sphaerolobium vimineum</i> (Leafless Globe Pea)			
1358.	8710	<i>Sporobolus africanus</i> (Parramatta Grass)	Y		
1359.	635	<i>Sporobolus virginicus</i> (Marine Couch)			
1360.	4828	<i>Spyridium globulosum</i> (Basket Bush)			
1361.	6930	<i>Stachys arvensis</i> (Staggerweed)	Y		
1362.	4733	<i>Stackhousia monogyna</i>			
1363.	24645	<i>Stagonopleura oculata</i> (Red-eared Firetail)			
1364.		<i>Steatoda grossa</i>			
1365.	2918	<i>Stellaria media</i> (Chickweed)	Y		
1366.	40882	<i>Stemonitopsis hyperopta</i>			
1367.	636	<i>Stenotaphrum secundatum</i> (Buffalo Grass)	Y		
1368.	24525	<i>Sterna fuscata</i> subsp. <i>nubilosa</i> (Sooty Tern)			
1369.	24329	<i>Stictonetta naevosa</i> (Freckled Duck)			
1370.	2316	<i>Stirlingia latifolia</i> (Blueboy)			
1371.	25597	<i>Strepera versicolor</i> (Grey Currawong)			
1372.	25589	<i>Streptopelia chinensis</i> (Spotted Turtle-Dove)	Y		
1373.	30951	<i>Streptopelia chinensis</i> subsp. <i>tigrina</i> (Spotted Turtle-Dove)	Y		
1374.	25590	<i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
1375.	24942	<i>Strophurus spinigerus</i> subsp. <i>spinigerus</i>			
1376.	44492	<i>Stuckenia pectinata</i>			
1377.	7679	<i>Stylidium adpressum</i> (Trigger-on-stilts)			
1378.	30278	<i>Stylidium androsaceum</i>			
1379.	25831	<i>Stylidium araeophyllum</i> (Stilt Walker)			
1380.	30276	<i>Stylidium bicolor</i>			
1381.	7693	<i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
1382.	7694	<i>Stylidium bulbiferum</i> (Circus Triggerplant)			
1383.	7696	<i>Stylidium calcaratum</i> (Book Triggerplant)			
1384.	7699	<i>Stylidium carnosum</i> (Fleshy-leaved Triggerplant)			
1385.	7709	<i>Stylidium crossocephalum</i> (Posy Triggerplant)			
1386.	7710	<i>Stylidium cygnorum</i>			
1387.	7712	<i>Stylidium despectum</i> (Dwarf Triggerplant)			
1388.	7713	<i>Stylidium dichotomum</i> (Pins-and-needles)			
1389.	7716	<i>Stylidium diuroides</i> (Donkey Triggerplant)			
1390.	7717	<i>Stylidium divaricatum</i> (Daddy-long-legs)			
1391.	7734	<i>Stylidium guttatum</i> (Dotted Triggerplant)			
1392.	25801	<i>Stylidium hesperium</i>			
1393.	25829	<i>Stylidium neurophyllum</i> (Coastal Plain Triggerplant)			
1394.	7768	<i>Stylidium obtusatum</i> (Pinafore Triggerplant)			
1395.	7774	<i>Stylidium piliferum</i> (Common Butterfly Triggerplant)			
1396.	7782	<i>Stylidium pulchellum</i> (Thumbelina Triggerplant)			
1397.	33106	<i>Stylidium recurvum</i>			
1398.	7785	<i>Stylidium repens</i> (Matted Triggerplant)			
1399.	20521	<i>Stylidium rigidulum</i>			
1400.	7790	<i>Stylidium roseoalatum</i> (Pink-wing Triggerplant)			
1401.	25806	<i>Stylidium scariosum</i>			
1402.	7798	<i>Stylidium schoenoides</i> (Cow Kicks)			
1403.		<i>Stylidium</i> sp.			
1404.	23511	<i>Stylidium thesioides</i> (Delicate Triggerplant)			
1405.	7806	<i>Stylidium utricularioides</i> (Pink Fan Triggerplant)			
1406.	1260	<i>Stypandra glauca</i> (Blind Grass)			
1407.	6476	<i>Styphelia tenuiflora</i> (Common Pinheath)			
1408.	2639	<i>Suaeda australis</i> (Seablite)			
1409.		<i>Supunna funerea</i>			
1410.		<i>Supunna picta</i>			
1411.	25902	<i>Symphyotrichum squamatum</i> (Bushy Starwort)	Y		
1412.	2321	<i>Synaphea acutiloba</i> (Granite Synaphea)			
1413.	2323	<i>Synaphea gracillima</i>			
1414.	2329	<i>Synaphea spinulosa</i>			
1415.	15532	<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>			
1416.		<i>Synothele michaelsoni</i>			
1417.		<i>Synothele mullaloo</i>			
1418.	32438	<i>Syntrichia pagorum</i>			
1419.	25705	<i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
1420.	24682	<i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
1421.	24207	<i>Tachyglossus aculeatus</i> (Short-beaked Echidna)			
1422.	24331	<i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
1423.	8243	<i>Tagetes minuta</i> (Stinking Roger)	Y		

	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
1424.	24167	<i>Tarsipes rostratus</i> (Honey Possum, Noolbenger)			
1425.		<i>Tasmanicosa leuckartii</i>			
1426.	20135	<i>Taxandria linearifolia</i>			
1427.	33319	<i>Tecticornia indica</i> subsp. <i>bidens</i>			
1428.	31718	<i>Tecticornia lepidosperma</i>			
1429.	4251	<i>Templetonia drummondii</i>			
1430.		<i>Tetragnatha luteocincta</i>			Y
1431.	1034	<i>Tetraria capillaris</i> (Hair Sedge)			
1432.	1036	<i>Tetraria octandra</i>			
1433.	48341	<i>Tetradthea hirsuta</i> subsp. <i>viminea</i>			
1434.	4537	<i>Tetradthea nuda</i>			
1435.		<i>Thelephora terrestris</i>			
1436.	1701	<i>Thelymitra antennifera</i> (Vanilla Orchid)			
1437.	10856	<i>Thelymitra benthamiana</i> (Leopard Orchid)			
1438.	1702	<i>Thelymitra campanulata</i> (Shirt Orchid)			
1439.	1704	<i>Thelymitra cornicina</i> (Lilac Sun Orchid)			
1440.	1705	<i>Thelymitra crinita</i> (Blue Lady Orchid)			
1441.	1707	<i>Thelymitra flexuosa</i> (Twisted Sun Orchid)			
1442.	1710	<i>Thelymitra mucida</i> (Plum Orchid)			
1443.	1716	<i>Thelymitra tigrina</i> (Tiger Orchid)			
1444.	20731	<i>Thelymitra vulgaris</i>			
1445.		<i>Thereuopoda lesueurii</i>			
1446.	5080	<i>Thomasia foliosa</i>			
1447.	5092	<i>Thomasia pauciflora</i> (Few Flowered Thomasia)			
1448.	24845	<i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
1449.	1318	<i>Thysanotus arbuscula</i>			
1450.	1319	<i>Thysanotus arenarius</i>			
1451.	1335	<i>Thysanotus gracilis</i>			
1452.	1338	<i>Thysanotus manglesianus</i> (Fringed Lily)			
1453.	1339	<i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
1454.	1343	<i>Thysanotus patersonii</i>			
1455.	46055	<i>Thysanotus</i> sp. Coastal plain (N.H. Brittan 66/63)			
1456.	1351	<i>Thysanotus sparteus</i>			
1457.	1354	<i>Thysanotus tenellus</i>			
1458.	1357	<i>Thysanotus thyrsoides</i>			
1459.	1358	<i>Thysanotus triandrus</i>			
1460.	25203	<i>Tiliqua occipitalis</i> (Western Bluetongue)			
1461.	25519	<i>Tiliqua rugosa</i>			
1462.	25204	<i>Tiliqua rugosa</i> subsp. <i>aspera</i>			
1463.	25207	<i>Tiliqua rugosa</i> subsp. <i>rugosa</i>			
1464.	25549	<i>Todiramphus sanctus</i> (Sacred Kingfisher)			
1465.	24309	<i>Todiramphus sanctus</i> subsp. <i>sanctus</i> (Sacred Kingfisher)			
1466.	32445	<i>Tortula muralis</i>			
1467.	19041	<i>Trachymene coerulea</i> subsp. <i>coerulea</i>			
1468.	6280	<i>Trachymene pilosa</i> (Native Parsnip)			
1469.	1481	<i>Tribonanthes australis</i> (Southern Tiurmdin)			
1470.	1482	<i>Tribonanthes brachypetala</i> (Nodding Tiurmdin)			
1471.	1483	<i>Tribonanthes longipetala</i> (Branching Tiurmdin)			
1472.	8798	<i>Tribonanthes uniflora</i> (Woolly Tiurmdin)			
1473.	1485	<i>Tribonanthes violacea</i> (Violet Tiurmdin)			
1474.	48141	<i>Tribonyx ventralis</i> (Black-tailed Native-hen)			
1475.	4383	<i>Tribulus terrestris</i> (Caltrop)	Y		
1476.	39094	<i>Trichia affinis</i>			
1477.		<i>Trichoglossus chlorolepidotus</i>			
1478.	25723	<i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
1479.	24754	<i>Trichoglossus haematodus</i> subsp. <i>rubitorquis</i> (Red-collared Lorikeet)			
1480.	25521	<i>Trichosurus vulpecula</i> (Common Brushtail Possum)			
1481.	24158	<i>Trichosurus vulpecula</i> subsp. <i>vulpecula</i> (Common Brushtail Possum)			
1482.	1361	<i>Tricoryne elatior</i> (Yellow Autumn Lily)			
1483.	1363	<i>Tricoryne tenella</i>			
1484.		<i>Tridentiger trigonocephalus</i>			
1485.	17145	<i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Y		
1486.	4291	<i>Trifolium arvense</i> (Hare's Foot Clover)	Y		
1487.	17542	<i>Trifolium arvense</i> var. <i>arvense</i>	Y		
1488.	4292	<i>Trifolium campestre</i> (Hop Clover)	Y		
1489.	17763	<i>Trifolium campestre</i> var. <i>campestre</i> (Hop Clover)	Y		
1490.	4295	<i>Trifolium dubium</i> (Suckling Clover)	Y		
1491.	4297	<i>Trifolium glomeratum</i> (Cluster Clover)	Y		
1492.	4298	<i>Trifolium hirtum</i> (Rose Clover)	Y		
1493.	4303	<i>Trifolium micranthum</i> (Slender Suckling Clover)	Y		

	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
1494.	4307	<i>Trifolium repens</i> (White Clover)	Y		
1495.	4313	<i>Trifolium subterraneum</i> (Subterranean Clover)	Y		
1496.	4314	<i>Trifolium suffocatum</i> (Suffocated Clover)	Y		
1497.	4315	<i>Trifolium tomentosum</i> (Woolly Clover)	Y		
1498.	147	<i>Triglochin mucronata</i>			
1499.	18587	<i>Triglochin nana</i>			
1500.	151	<i>Triglochin striata</i>			
1501.	35016	<i>Trihaloragis hexandra</i> subsp. <i>integrifolia</i>			
1502.	13479	<i>Trymalium ledifolium</i> var. <i>rosmarinifolium</i>			
1503.	48147	<i>Turnix varius</i> (Painted Button-quail)			
1504.	98	<i>Typha domingensis</i> (Bulrush, Djandjidi)			
1505.	99	<i>Typha orientalis</i> (Bulrush, Cumbungi)			
1506.	24983	<i>Underwoodisaurus milii</i> (Barking Gecko)			
1507.		<i>Urocampus carinirostris</i>			
1508.		<i>Urodacus armatus</i>			
1509.		<i>Urodacus hartmeyerii</i>			
1510.		<i>Urodacus novaehollandiae</i>			
1511.		<i>Urodacus planimanus</i>			
1512.		<i>Urodacus woodwardii</i>			
1513.	8255	<i>Ursinia anthemoides</i> (Ursinia)	Y		
1514.	38388	<i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	Y		
1515.	7138	<i>Utricularia inaequalis</i>			
1516.	7145	<i>Utricularia menziesii</i> (Redcoats)			
1517.	7148	<i>Utricularia multifida</i>			
1518.	7157	<i>Utricularia violacea</i> (Violet Bladderwort)			
1519.	7158	<i>Utricularia volubilis</i> (Twining Bladderwort)			
1520.	17868	<i>Vallisneria nana</i>			
1521.	24386	<i>Vanellus tricolor</i> (Banded Lapwing)			
1522.	25218	<i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
1523.	25225	<i>Varanus rosenbergi</i> (Heath Monitor)			
1524.	25526	<i>Varanus tristis</i> (Racehorse Monitor)			
1525.	7665	<i>Velleia trinervis</i>			
1526.	8257	<i>Vellereophyton dealbatum</i> (White Cudweed)	Y		
1527.		<i>Venator immansueta</i>			
1528.		<i>Venatrix pullastra</i>			
1529.	15725	<i>Verbesina encelioides</i>	Y		
1530.	7666	<i>Verreauxia reinwardtii</i> (Common Verreauxia)			
1531.	15431	<i>Verticordia acerosa</i> var. <i>acerosa</i>			
1532.	15432	<i>Verticordia densiflora</i> var. <i>densiflora</i>			
1533.	6077	<i>Verticordia drummondii</i> (Drummond's Featherflower)			
1534.	12422	<i>Verticordia eriocephala</i> (Common Cauliflower)			
1535.	6101	<i>Verticordia nitens</i> (Morrison Featherflower, Kodjeningara)			
1536.	6103	<i>Verticordia ovalifolia</i>			
1537.	6107	<i>Verticordia pennigera</i>			
1538.	12449	<i>Verticordia plumosa</i> var. <i>brachyphylla</i>			
1539.	15618	<i>Verticordia plumosa</i> var. <i>plumosa</i>			
1540.	24206	<i>Vespadelus regulus</i> (Southern Forest Bat)			
1541.	17285	<i>Vicia sativa</i> subsp. <i>cordata</i>	Y		
1542.	11474	<i>Vicia sativa</i> subsp. <i>nigra</i>	Y		
1543.	4325	<i>Viminaria juncea</i> (Swishbush, Koweda)			
1544.	24040	<i>Vulpes vulpes</i> (Red Fox)	Y		
1545.	722	<i>Vulpia bromoides</i> (Squirrel Tail Fescue)	Y		
1546.	724	<i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		
1547.	7384	<i>Wahlenbergia capensis</i> (Cape Bluebell)	Y		
1548.	7389	<i>Wahlenbergia preissii</i>			
1549.	8282	<i>Waitzia suaveolens</i> (Fragrant Waitzia)			
1550.	13333	<i>Waitzia suaveolens</i> var. <i>suaveolens</i>			
1551.	5106	<i>Waltheria indica</i>			
1552.		<i>Westrarchaea pusilla</i>			
1553.		<i>Westrarchaea spinosa</i>			
1554.	12072	<i>Wurmbea dioica</i> subsp. <i>alba</i>			
1555.	1251	<i>Xanthorrhoea brunonis</i>			
1556.	14544	<i>Xanthorrhoea brunonis</i> subsp. <i>brunonis</i>			
1557.	1256	<i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
1558.	6284	<i>Xanthosia candida</i>			
1559.	6289	<i>Xanthosia huegelii</i>			
1560.	44861	<i>Xerochrysum macranthum</i>			
1561.		<i>Zachria flavicoma</i>			
1562.	1049	<i>Zantedeschia aethiopica</i> (Arum Lily)	Y		
1563.	25765	<i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			



Name ID Species Name Naturalised Conservation Code <sup>1</sup>Endemic To Query Area

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 3**

### **Protected Matters Search Tool Report**



# 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: 19/06/20 17:03:35

## [Summary](#)

## [Details](#)

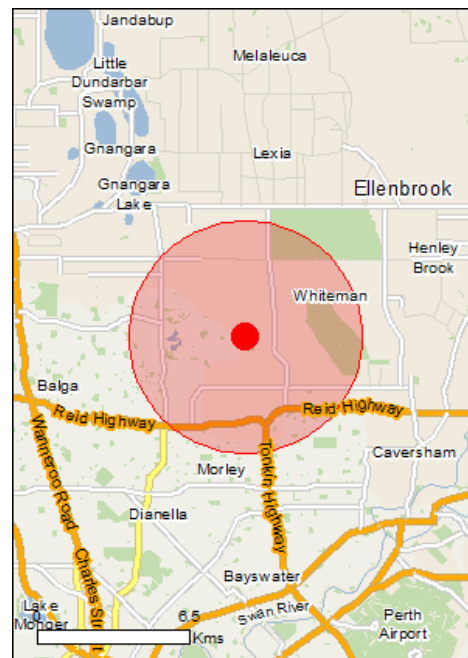
[Matters of NES](#)

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

[Extra Information](#)

## [Caveat](#)

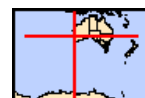
## [Acknowledgements](#)



This map may contain data which are  
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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>	2
<a href="#">Listed Threatened Species:</a>	27
<a href="#">Listed Migratory Species:</a>	9

## 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>	1
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	14
<a href="#">Whales and Other Cetaceans:</a>	None
<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>	1
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	38
<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="#">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="#">Botaurus poiciloptilus</a> Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area
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<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
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<a href="#">Calyptorhynchus banksii naso</a> Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area
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<a href="#">Calyptorhynchus latirostris</a> Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
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<a href="#">Leipoa ocellata</a> Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
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<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
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<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
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#### Insects

<a href="#">Hesperocolletes douglasi</a> Douglas' Broad-headed Bee, Rottnest Bee [66734]	Critically Endangered	Species or species habitat may occur within area
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#### Mammals

<a href="#">Bettongia penicillata ogilbyi</a> Woylie [66844]	Endangered	Species or species habitat known to occur within area
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Name	Status	Type of Presence
<a href="#">Dasyurus geoffroi</a> Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Pseudocheirus occidentalis</a> Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat likely to occur within area
Plants		
<a href="#">Andersonia gracilis</a> Slender Andersonia [14470]	Endangered	Species or species habitat likely to occur within area
<a href="#">Anigozanthos viridis subsp. terraspectans</a> Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat may occur within area
<a href="#">Caladenia huegelii</a> 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> Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat may occur within area
<a href="#">Diuris micrantha</a> Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diuris purdiei</a> Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area
<a href="#">Drakaea elastica</a> Glossy-leafed Hammer Orchid, Glossy-leafed Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area
<a href="#">Drakaea micrantha</a> Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Eleocharis keigheryi</a> Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Eucalyptus x balanites</a> Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat may occur within area
<a href="#">Grevillea curviloba subsp. incurva</a> Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat may occur within area
<a href="#">Lepidosperma rostratum</a> Beaked Lepidosperma [14152]	Endangered	Species or species habitat likely to occur within area
<a href="#">Synaphea sp. Fairbridge Farm (D. Papenfus 696)</a> Selena's Synaphea [82881]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Thelymitra dedmaniarum</a> Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat likely to occur within area
<a href="#">Thelymitra stellata</a> Star Sun-orchid [7060]	Endangered	Species or species habitat may occur within area
<a href="#">Trithuria occidentalis</a> Swan Hydatella [42224]	Endangered	Species or species habitat likely to 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
<b>Migratory Marine Birds</b>		
<a href="#">Apus pacificus</a>		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Motacilla cinerea</a>		
Grey Wagtail [642]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Actitis hypoleucos</a>		
Common Sandpiper [59309]		Species or species habitat likely to occur within area
<a href="#">Calidris acuminata</a>		
Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area
<a href="#">Calidris ferruginea</a>		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Calidris melanotos</a>		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a>		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pandion haliaetus</a>		
Osprey [952]		Species or species habitat likely to occur within area
<a href="#">Tringa nebularia</a>		
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 -	

Listed Marine Species	<a href="#">[ Resource Information ]</a>
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.	
Name	Type of Presence
<b>Birds</b>	
<a href="#">Actitis hypoleucos</a>	
Common Sandpiper [59309]	Species or species habitat likely to occur within area
<a href="#">Apus pacificus</a>	
Fork-tailed Swift [678]	Species or species habitat likely to occur within area
<a href="#">Ardea alba</a>	
Great Egret, White Egret [59541]	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
<a href="#">Ardea ibis</a> Cattle Egret [59542]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]		Species or species habitat may occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]		Species or species habitat may occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat likely to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]		Species or species habitat likely to occur within area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]	Endangered*	Species or species habitat likely to occur within area

## Extra Information

State and Territory Reserves	[ Resource Information ]
Name	State
Unnamed WA44853	WA

Invasive Species	[ Resource Information ]
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 Resources Audit, 2001.	

Name	Status	Type of Presence
<b>Birds</b>		
Acridotheres tristis Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis European Goldfinch [403]		Species or species habitat likely to occur

Name	Status	Type of Presence
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		within area  Species or species habitat likely to occur within area
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
<b>Mammals</b>		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Funambulus pennantii Northern Palm Squirrel, Five-striped Palm Squirrel [129]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus norvegicus Brown Rat, Norway Rat [83]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
<b>Plants</b>		
Anredera cordifolia 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 aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax,		Species or species

Name	Status	Type of Presence
Florist's Smilax, Smilax Asparagus [22473]		habitat likely to occur within area
Asparagus declinatus 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 Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Tamarix aphylla Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area



# 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

-31.83866 115.90919



# 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](#)
- [Northern Territory Herbarium](#)
- [Western Australian Herbarium](#)
- [Australian National Herbarium, Canberra](#)
- [University of New England](#)
- [Ocean Biogeographic Information System](#)
- [Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [Geoscience Australia](#)
- [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.

# **APPENDIX 4**

## **Conservation Codes**

## Conservation Codes for Western Australian Flora and Fauna

Specially protected fauna or flora are species\* which have been adequately searched for and are deemed to be, in the wild, either rare, at risk of extinction, or otherwise in need of special protection, and have been gazetted as such. Conservation codes have been transitioned under regulations 170, 171 and 172 of the *Biodiversity Conservation Regulations 2018*.

### **T      **Threatened species – Schedules 1-4****

Listed by order of the Minister as Threatened in the category of critically endangered, endangered or vulnerable under section 19(1), or is a rediscovered species to be regarded as threatened species under section 26(2) of the *Biodiversity Conservation Act 2016* (BC Act).

- **Threatened fauna** is that subset of ‘Specially Protected Fauna’ listed under schedules 1 to 3 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for Threatened Fauna.
- **Threatened flora** is that subset of ‘Rare Flora’ listed under schedules 1 to 3 of the *Wildlife Conservation (Rare Flora) Notice 2018* for Threatened Flora.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

### **CR      Critically endangered species**

Threatened species considered to be “*facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines*”.

Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines. Published under schedule 1 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for critically endangered fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for critically endangered flora.

### **EN      Endangered species**

Threatened species considered to be “*facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines*”.

Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines. Published under schedule 2 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for endangered fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for endangered flora.

### **VU      Vulnerable species**

Threatened species considered to be “*facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with criteria set out in the ministerial guidelines*”.

Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines. Published under schedule 3 of the *Wildlife*

*Conservation (Specially Protected Fauna) Notice 2018* for vulnerable fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for vulnerable flora.

**EX Presumed extinct species**

Species where “*there is no reasonable doubt that the last member of the species has died*”, and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).

Published as presumed extinct under schedule 4 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for extinct fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for extinct flora.

**EW Extinct in the wild species**

Species that “*is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form*”, and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).

Currently there are no threatened fauna or threatened flora species listed as extinct in the wild. If listing of a species as extinct in the wild occurs, then a schedule will be added to the applicable notice.

**Specially protected species**

Listed by order of the Minister as specially protected under section 13(1) of the BC Act. Meeting one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection.

Species that are listed as threatened species (critically endangered, endangered or vulnerable) or extinct species under the BC Act cannot also be listed as Specially Protected species.

**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; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).

Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.

Published as migratory birds protected under an international agreement under schedule 5 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

**CD Species of special conservation interest (conservation dependent fauna)**

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened, and listing is otherwise in accordance with the ministerial guidelines (section 14 of the BC Act).

Published as conservation dependent fauna under schedule 6 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

**OS Other specially protected species**

Fauna otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act).

Published as other specially protected fauna under schedule 7 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018*.

**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 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.

Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

**Priority 1: 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, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

## **Priority 2: 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, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

## **Priority 3: 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. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

## **Priority 4: Rare, Near Threatened and other species in need of monitoring**

- (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands.
- (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as Conservation Dependent.
- (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

\*Species includes all taxa (plural of taxon - a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies or variety, or a distinct population).

## **Western Australian Ecological Communities**

### **Threatened Ecological Communities**

The BC Act provides for the statutory listing of threatened ecological communities (TECs) by the Minister.

### **Presumed Totally Destroyed (PD)**

An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future.



**Critically Endangered (CR)**

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated.

**Endangered (EN)**

An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.

**Vulnerable (VU)**

An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.

**Priority Ecological Communities**

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Priority Ecological Community List under priorities 1, 2 and 3. These three categories are ranked in order of priority for survey and/or definition of the community. Ecological communities that are adequately known, and are rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list, are placed in Priority 4. These ecological communities require regular monitoring. Conservation Dependent ecological communities are placed in Priority 5.

**Priority One: Poorly-known ecological communities**

Ecological communities that are known from very few occurrences with a very restricted distribution (generally  $\leq 5$  occurrences or a total area of  $\leq 100\text{ha}$ ).

Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.

### **Priority Two: Poorly-known ecological communities**

Communities that are known from few occurrences with a restricted distribution (generally  $\leq 10$  occurrences or a total area of  $\leq 200\text{ha}$ ). At least some occurrences are not believed to be under immediate threat (within approximately 10 years) of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.

### **Priority Three: Poorly known ecological communities**

- (i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or:
- (ii) communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat (within approximately 10 years), or;
- (iii) munities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, inappropriate fire regimes, clearing, hydrological change etc.

Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.

### **Priority Four: Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.**

- (i) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands.
- (ii) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for a higher threat category.
- (iii) Ecological communities that have been removed from the list of threatened communities during the past five years.

### **Priority Five: Conservation Dependent ecological communities**

Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.

# Commonwealth of Australia Conservation Codes

## Threatened Flora and Fauna

Threatened fauna and flora may be listed under Section 178 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) in any one of the following six categories:

### **Extinct**

A native species is eligible to be included in the extinct category at a particular time if, at that time, there is no reasonable doubt that the last member of the species has died.

### **Extinct in the wild**

A native species is eligible to be included in the extinct in the wild category at a particular time if, at that time:

- a) it is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or
- b) it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.

### **Critically endangered**

A taxon is Critically Endangered when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing an extremely high risk of extinction in the wild.

### **Endangered**

A taxon is Endangered when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing a very high risk of extinction in the wild.

### **Vulnerable**

A taxon is Vulnerable when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing a high risk of extinction in the wild.

### **Conservation dependent**

A native species is eligible to be included in the conservation dependent category at a particular time if, at that time:

- a) the species is the focus of a specific conservation program the cessation of which would result in the species becoming vulnerable, endangered or critically endangered; or
- b) the following subparagraphs are satisfied:
  - i. the species is a species of fish;

- ii. the species is the focus of a plan of management that provides for management actions necessary to stop the decline of, and support the recovery of, the species so that its chances of long term survival in nature are maximised;
- iii. the plan of management is in force under a law of the Commonwealth or of a State or Territory;
- iv. cessation of the plan of management would adversely affect the conservation status of the species.

The EPBC Act does not provide for listing in a data deficient category. Where sufficient data (evidence) is unavailable to allow assessment by the Threatened Species Scientific Committee against the criteria for listing, the species are found to be ineligible. A recommendation is made to the Minister to not include the species in any category under the EPBC Act. For reasons of transparency and to inform future research, the Threatened Species Scientific Committee publishes the names of those species found to be data deficient. As data deficient is not a listing category under the EPBC Act, this has no statutory implications and the species is not considered to be listed under the EPBC Act.

### **Threatened Ecological Communities**

Threatened Ecological communities under the EPBC Act are listed in three categories.

#### **Critically endangered**

If, at that time, an ecological community is facing an extremely high risk of extinction in the wild in the immediate future (indicative timeframe being the next 10 years).

#### **Endangered**

If, at that time, an ecological community is not critically endangered but is facing a very high risk of extinction in the wild in the near future (indicative timeframe being the next 20 years).

#### **Vulnerable**

If, at that time, an ecological community is not critically endangered or endangered, but is facing a high risk of extinction in the wild in the medium-term future (indicative timeframe being the next 50 years).