

# M70/656 ABERCROMBIE ROAD, POSTANS

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## FLORA AND VEGETATION SURVEY

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The logo for PGV Environmental is located at the bottom of the page. It features the letters 'PGV' in a large, bold, white sans-serif font. Below 'PGV', the word 'ENVIRONMENTAL' is written in a smaller, white, all-caps sans-serif font. The background of the bottom half of the page is a vibrant orange with a subtle, curved white line and a fine, diagonal line pattern.

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# 1 INTRODUCTION

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## 1.1 Background

Mining Tenement M70/656 (the site) is located on the southern part of Lot 313 Abercrombie Road, Postans in the City of Kwinana, approximately 30km south of the Perth Central Business District (Figure 1). The tenement is 18.02ha and is bounded by mostly cleared rural land to the east, Ratcliffe Road and native vegetation to the south-west, a quarry to the north and other large mostly cleared land to the west (Figure 2).

The owners of the tenement, WA Limestone, plan to expand the existing quarry to the north into the tenement. A preliminary flora and vegetation survey was undertaken on the site in late spring 2017 (Natural Area Holdings, 2018). PGV Environmental was commissioned by WA Limestone to undertake a flora and vegetation survey of the tenement in mid-spring and to assess the conservation significance of flora and vegetation communities to assist the applications for future mining of the site.

## 1.2 Scope of Works

A Detailed Flora and Vegetation Survey was undertaken in accordance with EPA Technical Guidance *Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA, 2016). The survey included the following:

- Desktop search and review of the Department of Biodiversity, Conservation and Attractions (DBCA) Threatened and Priority flora and ecological community Databases;
- A search of the Naturemap website (DBCA, 2020);
- A search of the Commonwealth Government's Protected Matters Search Tool (DAWE, 2020) to identify species potentially occurring within the area that are protected under the *Environment Protection and Biodiversity Conservation (EPBC) Act 1999*;
- Examination of historic and recent aerial photography and contour and soil maps to provisionally identify vegetation types and condition;
- Field survey using quadrats to record native and introduced species as well as a thorough site walkover of any areas of native vegetation;
- Recording of any significant plant species using a hand-held GPS;
- Description and mapping of vegetation types and vegetation condition; and
- Compilation of a flora list.

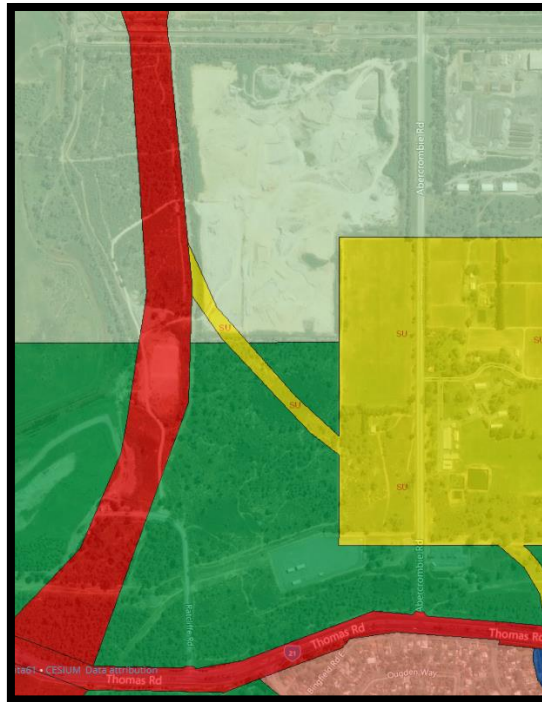
## 2 EXISTING ENVIRONMENT

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### 2.1 Land Use

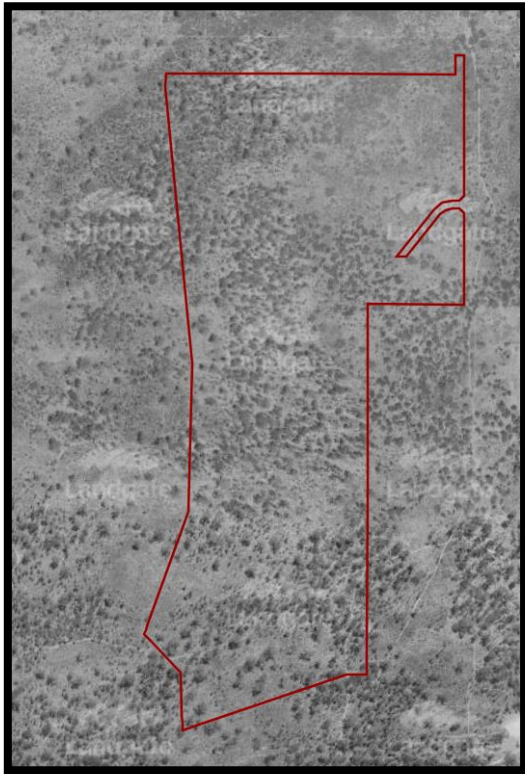
The site is currently zoned 'Parks and Recreation' and contains a corridor zoned 'Public purposes - special uses' under the Metropolitan Region Scheme (National Map, 2020) (Plate 1). Zoning under the City of Kwinana Local Planning Scheme No. 2 (WAPC, 1992) reflects the zoning under the MRS.

**Plate 1: Zoning under the MRS**



The earliest available historic aerial photograph on-line from 1953 (Landgate, 2020) shows that the site contains native vegetation (Plate 2). The site remains completely vegetated in 1989 (Plate 3) apart from a few tracks through the site.

**Plate 2: Aerial Photograph 1953**



**Plate 3: Aerial Photograph 1989**



The 2013 aerial photo shows the extent of quarrying activity on the northern half of the lot and shows the tenement as uncleared native vegetation (Plate 4).

**Plate 4: Aerial Photograph 2013 (Landgate, 2020)**



The site remains vegetated to the present (Figure 2).

## **2.2 Topography**

The site is gently undulating with a south-west/north-east trending ridge at an elevation of around 31m Australian Height Datum (AHD) in the central western part of the site which slopes down gently to the north, east and south. The lowest part of the site has an elevation of around 18m along the eastern boundary (Figure 2).

## **2.3 Geology and Soils**

### **2.3.1 Geology**

The site is mapped as part of the Spearwood System which has the highest relief of the dune systems on the Swan Coastal Plain (Bolland, 1998). The Spearwood system consists of slightly calcareous Aeolian sand remnant from leaching of the underlying Pleistocene Tamala limestone (Davidson, 1995).

### **2.3.2 Soils**

Two Spearwood soil units are mapped on the site and are described as follows:

- Spearwood S2a Phase (211Sp\_S2a) – lower slopes of dune ridge with moderately deep to deep siliceous yellow-brown sands or pale sands with yellow-brown subsoils and minor limestone outcrop (DPIRD, 2020), mapped over the majority of the site; and
- Spearwood Wet, Swamp Phase (211SpW\_SWAMP) which are soils that occur with swamps (DPIRD, 2020). This soil phase is located in a very small area on the western boundary.

## **2.4 Hydrology**

Groundwater is at approximately 1m AHD, which is 17m to 30m below the surface level, and generally flows to the north-west (DWER, 2020). There are no wetlands mapped on the site (National Map, 2020).

### 3 METHODOLOGY

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#### 3.1 Database Searches

Searches of the following databases were undertaken for a 10km radius around the central point of the site prior to the site survey:

- Department of Biodiversity, Conservation and Attractions (DBCA) Declared Rare and Priority Flora database and Threatened Ecological Communities database (Appendix 1);
- DBCA Naturemap Database (DBCA, 2020) (Appendix 2); and
- The Commonwealth Government's Protected Matters Search Tool to identify species potentially occurring within the area that are protected under the *Environment Protection and Biodiversity Conservation (EPBC) Act 1999* (DAWE, 2020). A radius of 5km was used for this database (Appendix 3).

#### 3.2 Site Survey

A flora and vegetation survey of the site was conducted by Dr Paul van der Moezel of PGV Environmental on 13 September 2020.

The site was thoroughly walked to record all species in the survey area. The site was walked in parallel transects spaced 20m apart in order to maximise the recording of small plants, particularly orchid species. The dense stands of *Acacia rostellifera* were harder to walk through and had a lower site coverage.

Information on flora composition and vegetation structure was recorded in six 10m x 10m non-permanent quadrats in representative vegetation types.

Most plant species were identified in the field. Some specimens were photographed or taken for identification at the Perth Reference Herbarium or office using standard reference guides.

#### 3.3 Survey Conditions

The conditions that the survey was undertaken in are presented in Table 1 in order to assess the adequacy of the survey. In summary, there were no constraints to the survey.

**Table 1: Statement of Botanical Survey Conditions**

Issue	Constraints (Y/N)*	Comment
Competency/experience of the consultant conducting the survey	No	Dr Paul van der Moezel has extensive botanical survey experience in the Perth Metropolitan Region.
Proportion of the flora identified <sup>^</sup>	No	The timing of the survey in mid-September was optimal to identify most flora species on the site including all potential Threatened and Priority Flora. No follow-up survey required.
Sources of information (historic/recent or new data)	No	The flora in the Perth Metropolitan Region is well documented.

Issue	Constraints (Y/N)*	Comment
Proportion of the task achieved and further work that may need to be undertaken	No	No follow-up survey required as no Threatened Flora expected to occur in other seasons.
Timing/weather/season/cycle	No	The spring survey was optimal for most flora species. 2020 was a good year for ephemeral species, including orchids.
Disturbances (Fire)	No	The fire age of the vegetation was mostly greater than 5 years.
Intensity of survey (e.g. In retrospect was the intensity adequate)	No	The time spent on the small site and ease of access made for a full coverage.
Completeness (e.g. was relevant area fully surveyed)	No	
Resources (e.g. degree of expertise available for plant identification)	No	Experienced botanist undertook most plant identifications on site.
Remoteness and/or access problems	No	Easily accessible site in the Perth Metropolitan Region.
Availability of contextual (e.g. bioregional) information for the study area.	No	Bush Forever

\*Constraints have been rated as Significant, Moderate or No constraints

^Fungi and nonvascular flora (e.g. algae, mosses and liverworts) were not specifically surveyed for during the survey.

## 4 RESULTS

### 4.1 Flora Database Searches

A search of the DBCA Threatened Flora Databases: the WA Herbarium database (WAHerb), the Threatened (Declared Rare) and Priority Flora Species List (TFPL) (Appendix 1) and Naturemap Database (Appendix 2) indicates that a number of species that are listed as Endangered, Threatened or Priority have been located within a 10km radius of the site. The and the EPBC Act Protected Matters Search Tool (Appendix 3) indicates species that may have habitat within 5km radius of the site. The results from these database searches are shown in Table 2. None of the species has been recorded from the survey area.

Table 3 lists the likelihood that any of these species could occur on the site based on the soil types and vegetation condition.

**Table 2: Conservation Significant Flora Identified in Database Searches**

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>Drakaea elastica</i>	Glossy-leafed Hammer Orchid	Schedule 1	Endangered
<i>Synaphea</i> sp. Serpentine (G.R Brand 103)		Schedule 1	Critically Endangered
<i>Diuris purdiei</i>	Purdie's Donkey-orchid	Schedule 2	Endangered
<i>Drakaea micrantha</i>	Dwarf Hammer-orchid	Schedule 2	Vulnerable
<i>Andersonia gracilis</i>	Slender Andersonia	Schedule 3	Endangered
<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>Acacia lasiocarpa</i> var. bracteolata long peduncle variant (G.J. Keighery 5026)		Priority 1	
<i>Acacia</i> sp. Binningup (G. Cockerton et al. WB 37784)		Priority 1	
<i>Boronia jucunda</i>		Priority 1	
<i>Lachnagrostis nesomytica</i> subsp. <i>paralia</i>		Priority 1	
<i>Tetraria</i> sp. Chandala (G.J. Keighery 17055)		Priority 2	
<i>Thelymitra variegata</i>	Queen of Sheba	Priority 2	
<i>Amanita preissii</i>	Cinnamon-ring Lepidella	Priority 3	
<i>Amanita wadjukiorum</i>	Wadjuk Lepidella	Priority 3	
<i>Austrostipa mundula</i>		Priority 3	



Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act
<i>Babingtonia urbana</i>	Coastal Plain Babingtonia	Priority 3	
<i>Cyathochaeta teretifolia</i>		Priority 3	
<i>Hibbertia spicata</i> subsp. <i>leptothea</i>		Priority 3	
<i>Jacksonia gracillima</i>		Priority 3	
<i>Phlebocarya pilosissima</i> subsp. <i>pilosissima</i>		Priority 3	
<i>Pimelea calcicola</i>		Priority 3	
<i>Pithocarpa corymbulosa</i>		Priority 3	
<i>Sphaerolobium calcicola</i>		Priority 3	
<i>Stylidium paludicola</i>		Priority 3	
<i>Styphelia filifolia</i>		Priority 3	
<i>Aponogeton hexatepalus</i>	Stalked Water Ribbons	Priority 4	
<i>Dodonea hackettiana</i>	Hackett's Hopbush	Priority 4	
<i>Grevillea olivacea</i>		Priority 4	
<i>Jacksonia sericea</i>	Waldjumi	Priority 4	
<i>Kennedia becxiana</i>	Cape Arid Kennedia	Priority 4	
<i>Lepidium puberulum</i>		Priority 4	
<i>Microtis quadrata</i>	South Coast Mignonette Orchid	Priority 4	
<i>Myosotis australis</i>	Southern Forget-me-not	Priority 4	
<i>Stylidium ireneae</i>		Priority 4	
<i>Stylidium longitubum</i>	Jumping Jacks	Priority 4	
<i>Stylidium striatum</i>	Fan-leaved Triggerplant	Priority 4	
<i>Tripterococcus</i> sp. <i>Brachylobus</i> (A.S. George 14234)		Priority 4	
<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		Priority 4	

Conservation Codes are shown in Appendix 4

**Table 3: 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.	Unlikely – Shallow sand over limestone not typical habitat for the species
<i>Drakaea elastica</i>	Glossy-leaved Hammer Orchid	The Glossy-leaved Hammer Orchid prefers low-lying situations adjoining winter-wet swamps. This species does not survive in disturbed areas.	No – not swampy habitat



Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Synaphea</i> sp. Serpentine (G.R Brand 103)		<i>Synaphea</i> sp. Serpentine occurs in greybrown sandy loams or clay in seasonally wet areas (DPaW, 2017).	No – not seasonally wet habitat
<i>Diuris purdiei</i>	Purdie's Donkey-orchid	Purdie's Donkey Orchid occurs in grey-black sand in moist winter-wet swamps.	No – not swampy habitat
<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 – not swampy habitat
<i>Andersonia gracilis</i>	Slender Andersonia	Slender Andersonia occurs in white/grey sand, sandy clay, gravelly loam in winter-wet areas, near swamps.	No – not winter-wet habitat
<i>Diuris drummondii</i>	Tall Donkey Orchid	The Tall Donkey Orchid grows in low-lying depressions, swamps, in areas that contain surface water well into summer (Brown <i>et al.</i> , 2013).	No – not swamp habitat
<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 Jarrah Banksia woodland or thickets of Spearwood ( <i>Kunzea ericifolia/ glabrescens</i> ) (Williams <i>et al.</i> , 2001).	Highly Unlikely – not suitable habitat
<i>Eleocharis keigheryi</i>	Keighery's Eleocharis	Keighery's Eleocharis occurs in clay, sandy loam and is emergent in freshwater: creeks, claypans.	No – not wetland habitat
<i>Acacia lasiocarpa</i> var. bracteolata long peduncle variant (G.J. Keighery 5026)		This variant of <i>Acacia lasiocarpa</i> occurs in grey or black sand over clay in swampy areas, winter wet lowlands.	No – not swamp habitat
<i>Acacia</i> sp. Binningup (G. Cockerton et al. WB 37784)		<i>Acacia</i> sp. Binningup grows in sand in Tuart Woodland on the Quidalup dune system (ALA, 2020).	No – not in the Quindalup system
<i>Boronia jucunda</i>		<i>Boronia jucunda</i> prefers quartzite in rocky areas in open eucalypt woodland.	No – not suitable quartzite habitat
<i>Lachnagrostis nesomytica</i> subsp. <i>paralia</i>		<i>Lachnagrostis nesomytica</i> subsp. <i>paralia</i> occurs in calcareous sands on coastal dunes and swales.	Unlikely – not coastal dune habitat
<i>Tetraria</i> sp. Chandala (G.J. Keighery 17055)		<i>Tetraria</i> sp. Chandala is recorded from a mound spring in peaty sand (Western Australian Herbarium, 2005).	No – not mound spring habitat

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Thelymitra variegata</i>	Queen of Sheba	The Queen of Sheba orchid grows on sandy clay, sand and laterite.	No – not suitable habitat
<i>Amanita preissii</i>	Cinnamon-ring Lepidella	Cinnamon-ring Lepidella is found under shrubs and <i>Eucalyptus</i> in West Australia (Amanitaceae Org, 2015) in sandy soil and lateritic gravel, associated with <i>Allocasuarina fraseriana</i> , <i>Acacia pulchella</i> , <i>Corymbia calophylla</i> , <i>Callitris</i> sp., <i>Eucalyptus gomphocephala</i> , <i>E. marginata</i> , <i>Macrozamia fraseri</i> and <i>Pinus pinaster</i> (Davidson <i>et al.</i> , 2017).	Unlikely – not suitable habitat
<i>Amanita wadjukiorum</i>	Wadjuk Lepidella	Wadjuk Lepidella is solitary to gregarious, in sandy soil in degraded native vegetation with <i>Allocasuarina fraseriana</i> , <i>Corymbia calophylla</i> , <i>C. citriodora</i> and <i>Brachychiton</i> sp (Davidson <i>et al.</i> , 2013).	Unlikely – not suitable habitat
<i>Austrostipa mundula</i>		<i>Austrostipa mundula</i> occurs on plains in grey sand (Western Australian Herbarium, 2001).	Unlikely – not suitable habitat
<i>Babingtonia urbana</i>	Coastal Plain Babingtonia	Coastal Plain Babingtonia occurs in orange sand, brown loam, white sandy clay on low flats, winter-wet swamps	Highly Unlikely – not lowland habitat
<i>Cyathochaeta teretifolia</i>		<i>Cyathochaeta teretifolia</i> occurs in grey sand, sandy clay on swamps, creek edges.	Highly Unlikely – not swamp or creek habitat
<i>Hibbertia leptotheca</i>		<i>Hibbertia leptotheca</i> grows near-coastal limestone ridges, outcrops and cliffs in coastal heaths and thickets usually dominated by species of <i>Melaleuca</i> and <i>Acacia</i> (Thiele, 2019).	Highly Unlikely – not coastal habitat
<i>Jacksonia gracillima</i>		<i>Jacksonia gracillima</i> occurs in grey and brown well-drained sand.	Highly Unlikely – not suitable habitat
<i>Phlebocarya pilosissima</i> subsp. <i>pilosissima</i>		<i>Phlebocarya pilosissima</i> subsp. <i>pilosissima</i> grows in white or grey sand with lateritic gravel.	No – not suitable habitat
<i>Pimelea calcicola</i>		<i>Pimelea calcicola</i> occurs in sand on coastal limestone ridges.	Possible
<i>Pithocarpa corymbulosa</i>		<i>Pithocarpa corymbulosa</i> occurs in gravelly or sandy loam amongst granite outcrops.	No – not suitable habitat

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Sphaerolobium calcicola</i>		<i>Sphaerolobium calcicola</i> grows in white-grey-brown sand, sandy clay over limestone, black peaty sandy clay on tall dunes, winter-wet flats, interdunal swamps, low-lying areas.	No – not wetland habitat
<i>Stylidium paludicola</i>		<i>Stylidium paludicola</i> prefers peaty sand over clay in winter wet habitats in Marri and Melaleuca woodland, Melaleuca shrubland.	No – not suitable habitat
<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).	Highly Unlikely – not low-lying habitat
<i>Aponogeton hexatepalus</i>	Stalked Water Ribbons	Stalked Water Ribbons grow in freshwater: ponds, rivers, claypans	No – no permanent water habitat
<i>Dodoniae hackettiana</i>	Hackett's Hopbush	Hackett's Hopbush occurs in sand with outcropping limestone.	Possible
<i>Grevillea olivacea</i>		<i>Grevillea olivacea</i> grows in white or grey sand on coastal dunes, limestone rocks.	Highly Unlikely – not coastal habitat
<i>Jacksonia sericea</i>	Waldjumi	Waldjumi grows in calcareous and sandy soils.	Possible
<i>Kennedia becxiana</i>	Cape Arid Kennedia	Cape Arid Kennedia occurs in sand, loam on granite hills and outcrops.	No – not granitic habitat
<i>Lepidium puberulum</i>		<i>Lepidium puberulum</i> grows in sandy soils in coastal habitats.	Highly Unlikely – not coastal habitat
<i>Microtis quadrata</i>	South Coast Mignonette Orchid	South Coast Mignonette Orchid occurs on clay based coastal flats (Brown <i>et al.</i> , 2013).	No – not clay habitat
<i>Myosotis australis</i>	Southern Forget-me-not	Southern Forget-me-nots grow in grey sand over limestone	Highly Unlikely – thought to be extinct
<i>Stylidium ireneae</i>		<i>Stylidium ireneae</i> occurs in sandy loam in valleys near creek lines, woodland, often with <i>Agonis</i> .	Highly Unlikely – not creekline habitat
<i>Stylidium longitubum</i>	Jumping Jacks	Jumping Jacks prefer sandy clay, clay in seasonal wetlands.	No – not wetland habitat
<i>Stylidium striatum</i>	Fan-leaved Triggerplant	The Fan-leaved Triggerplant grows in brown clay loam over laterite on hillslopes in Jarrah/Marri forest, Wandoo woodland.	No – not lateritic habitat

Scientific Name	Common Name	Habitat*	Likelihood to occur on the site
<i>Tripterococcus</i> sp. Brachylobus (A.S. George 14234)		<i>Tripterococcus</i> sp. Brachylobus occurs in grey, black or peaty sand winter-wet flats	No – not wetland habitat
<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 – not winter-wet habitat

\* sourced from Florabase (DBCAs, 2017) and SPRAT Database (DoEE, 2016) as well as the DBCA database searches unless otherwise denoted

## 4.2 TEC and PEC Desktop Search

A search of DBCA's Threatened (TEC) and Priority Ecological Communities (PEC) database was conducted within a radius of 5km around the site (14-0920EC) (Appendix 5). Two TECs and four Priority 3 PECs at State level were identified in the database search. One of these is also listed as a TEC under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Three of the State listed PECs are listed under the EPBC Act as TECs. The communities identified in the database searches are outlined in Table 4.

**Table 4: Threatened and Priority Ecological Communities likely to occur within 5km of the Site**

Ecological Community	Description	Conservation Status WA	Status under the EPBC Act
SCP19b	Woodlands over sedgelands in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered (Listed as FCT19)
SCP26a	<i>Melaleuca huegelii</i> - <i>Melaleuca systena</i> shrublands on limestone ridges (floristic community type 26a as originally described in Gibson et al. (1994))	Endangered	
SCP24	Northern Spearwood shrublands and woodlands	Priority 3	
SCP25	Southern <i>Eucalyptus gomphocephala</i> - <i>Agonis flexuosa</i> woodlands	Priority 3	Critically Endangered as part of Tuart Woodland TEC
Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered
Tuart woodlands	Tuart ( <i>Eucalyptus gomphocephala</i> ) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered

## 4.3 Flora

A total of 109 plant species were recorded during the survey (Appendix 6). The total consisted of 73 native and 36 introduced species. The percentage of introduced species (33%) is high considering the site does not appear to have been cleared in the past. The number of native species is considered moderate compared to the that which would be similar vegetation types in better condition.

Natural Area Holdings (NAH) (2018) recorded 63 species including 49 native and 14 introduced. NAH undertook their survey in mid-November which is past the peak flowering period to survey on Spearwood dune soils in the Perth Metropolitan Region. The addition of 46 more species, including 24 native species, in the mid-September survey of this report reflects the earlier survey period.

The plant Families with the highest representation of species were the Fabaceae (Pea and Wattle family – 13 species, including 10 native and 3 introduced), Proteaceae (Banksia family - 10 species, all native), Asparagaceae (Lily family – 10 species, 9 native and 1 introduced) and the Cyperaceae (Sedge family – 7 species, all native). Unusually, the Myrtaceae (Eucalyptus, Melaleuca and others) was only represented by two species, Tuart and Jarrah. This outcome was recorded in both NAH and the PGV Environmental survey. There does not seem to be any obvious reason for the absence of any *Melaleuca*, *Calothamnus*, *Calytrix* and other genera that might normally be expected to occur on the site.

There were no Threatened (Declared Rare) or Priority plant species recorded on the site in either the NAH 2017 survey (NAH, 2018) or this 2020 survey.

Quadrat Data are provided in Appendix 7.

Species richness in the six quadrats ranged from 21-28 species. The percentage of introduced species in all quadrats was very high with the highest values for the *Acacia rostellifera* dense heath vegetation (average 62%) and the lower values in Tuart and Jarrah/Banksia woodlands with 58% and 38%, respectively.

## **4.4 Vegetation**

### **4.4.1 Vegetation Complex**

Vegetation Complexes are a broad level of vegetation description which is based on the underlying geomorphology and rainfall (Hedde *et al.*, 1980). The areas of remnant native vegetation on the site is part of the Cottesloe Complex– Central and South vegetation complex which is described as:

Mosaic of woodland of *Eucalyptus gomphocephala* (Tuart) and open forest of *E. gomphocephala* – *E. marginata* (Jarrah) – *Corymbia calophylla* (Marri), closed heath on the limestone outcrops' (Hedde *et al.*, 1980).

The general description of the vegetation complex matches the vegetation types recorded on the site.

### **4.4.2 Vegetation Type**

For small scale sites, such as the survey area, vegetation mapping can be further refined by using vegetation types which are described by the composition and structure of the dominant species rather than based on geomorphology.

Three native vegetation types were described and mapped on the site. The vegetation type is described in Table 5 and mapped in Figure 3.



#### **4.4.3 Floristic Community Types**

Floristic Community Types (FCT) are based on the whole floristic composition of the vegetation rather than being determined by soil type and geomorphology (Vegetation Complex) or the nature of the dominant species (Vegetation Types).


The FCT on the site was determined using the spreadsheet method which compares the species in the quadrats to the species found in each FCT (Table 12 in Gibson *et al.* 1994).

The low native species richness values and high proportion of introduced species makes a definitive match with known FCTs difficult. However using the method above, the vegetation on the site was found to be most similar to FCT28 'Spearwood *Banksia attenuata* or *B. attenuata* – *Eucalyptus* woodland'.

**Table 5: Vegetation Types on the Site**

Vegetation Type	Description	Photograph
<p><b>Ar</b> <i>Acacia rostellifera</i> Closed Heath to Tall Open Scrub over weeds</p>	<p>Two large and two smaller stands of this vegetation type were recorded on the site. <i>Acacia rostellifera</i> is dense (50-75% cover) and up to 2m high. Occasional Tuart trees occur in the unit. The understorey is sparse and consists mostly of grassy weed species such as Perennial and Annual Veldtgrass (<i>Ehrharta calycina</i>, <i>E. longiflora</i>), Blowfly Grass (<i>Briza maxima</i>) and Hare’s Tail Grass (<i>Lagurus ovatus</i>). Common native species include <i>Xanthorrhoea preissii</i>, <i>Macrozamia riedlei</i>, <i>Conostylis aculeata</i> and <i>Hardenbergia comptoniana</i>.</p> <p>The soils were orange-brown sands with some surface limestone.</p> <p>Quadrats AR1 and AR4 are representative of this vegetation type.</p>	
<p><b>Eg</b> <i>Eucalyptus gomphocephala</i> Low Open Woodland over <i>Banksia attenuata</i>/ <i>Allocasuarina fraseriana</i> Low Open Woodland over <i>Acacia pulchella</i>/<i>Grevillea vestita</i>/ <i>Xanthorrhoea preissii</i> Open Low Heath</p>	<p>Tuart (<i>Eucalyptus gomphocephala</i>) woodland occurred on the upper slopes and top of the low ridge that occurs on the central western part of the site. The Tuart trees are up to 10m high and low density (average 5-10% cover) with a sparse lower tree canopy of <i>Banksia attenuata</i> and in some places <i>Allocasuarina fraseriana</i>. The understorey is an open low heath with common native species <i>Xanthorrhoea preissii</i>, <i>Macrozamia riedlei</i>, <i>Hibbertia subvaginata</i>, <i>Acacia pulchella</i>, <i>Conostylis aculeata</i> and <i>Hardenbergia comptoniana</i>. <i>Grevillea vestita</i> was common in patches.</p> <p>The soils were orange-brown sand with no surface limestone.</p> <p>Quadrats AR2 and AR6 are representative of this vegetation type.</p>	



Vegetation Type	Description	Photograph
<p><b>EmBa</b> <i>Eucalyptus marginata</i>/  <i>Banksia attenuata</i> Low  Woodland to Low Open  Woodland over <i>Xanthorrhoea</i>  <i>preissii</i> Open Low Heath</p>	<p>The Jarrah (<i>Eucalyptus marginata</i>)/<i>Banksia</i> woodland vegetation type occurred on lower slopes in the north and south-east parts of the site. Jarrah was up to 8m high and low density (5-10% cover) with a secondary tree canopy of <i>Banksia attenuata</i> around 3-4m high and less than 10% cover. Common understorey species in the open low heath include <i>Xanthorrhoea preissii</i>, <i>Macrozamia riedlei</i>, <i>Dianella revoluta</i> var. <i>divaricata</i>, <i>Conostylis aculeata</i>, <i>Drosera stolonifera</i>, <i>Drosera erythrorhiza</i> and <i>Hardenbergia comptoniana</i>.</p> <p>The soils were orange-brown sand with no surface limestone.</p> <p>Quadrats AR3 and AR5 are representative of this vegetation type.</p>	



#### 4.4.4 Vegetation Condition

The condition of the vegetation was assessed according to the system of Keighery as described in Bush Forever (Government of Western Australia, 2000) (Table 6).

**Table 6: 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 to 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.

The condition of the vegetation is shown in Figure 4. All areas of native vegetation on the site were assessed as being in Good condition. The low condition rating is due to the abundance of weeds, particularly grassy weeds, most likely the result of frequent fires. No areas were assessed in Very Good condition or better due to the abundance of weeds.

## 4.5 Conservation Significance of Flora and Vegetation

### 4.5.1 Flora

No Threatened or Priority flora species were recorded on the site. No other species of conservation significance were recorded.

### 4.5.2 Vegetation

#### 4.5.2.1 Vegetation Complex

The vegetation on the site is part of the Cottesloe Complex - Central and South (Hedde *et al.*, 1980). Approximately 32% of the pre-European vegetation extent of this complex remains, of which 14% is currently managed by DBCA (DBCA, 2018).

The percentage retention is above EPA's target for minimum 30% retention of vegetation complexes State-wide in the Perth and Peel Region Constrained Areas and the area in protection is above the 10% minimum criteria for vegetation complexes.

#### **4.5.2.2 Threatened and Priority Ecological Communities**

The FCT on the site was determined to be most similar to FCT28 'Spearwood *Banksia attenuata* or *B. attenuata* – *Eucalyptus* woodland'. FCT 28 is not a TEC or PEC at State level. FCT 28 occurs in the upland areas of the nearby Bush Forever Site 269 'The Spectacles' as well as Site 268 'Mandogalup Road Bushland, Mandogalup' and Site 349 'Leda Reserve and Adjacent Bushland'.

The Tuart woodland vegetation type has potential to be FCT 25 'Southern *Eucalyptus gomphocephala* – *Agonis flexuosa* woodlands' however the understorey composition was very similar to the Jarrah/Banksia woodland and matched more closely with FCT28.

The vegetation types containing Tuart trees have has potential to be part of the Tuart Woodlands and Forests of the Swan Coastal Plain TEC. An assessment of the TEC is provided below.

The vegetation types containing *Banksia attenuata* trees have has potential to be part of the Banksia Woodlands of the Swan Coastal Plain TEC. An assessment of the TEC is provided below.

#### **4.5.2.3 Tuart Woodlands and Forests of the Swan Coastal Plain**

##### ***Description***

The Tuart Woodlands and Forests of the Swan Coastal Plain was listed as a Threatened Ecological Community (TEC) with a rating of Critically Endangered under the Commonwealth EPBC Act on 4 July 2019 (for brevity the community will be called the Tuart Woodland TEC in this report). A description of the Tuart Woodland TEC is available through the EPBC Act listing and more specifically the *Approved Conservation Advice (incorporating listing advice) for the Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain ecological* released by the Commonwealth Government (Commonwealth of Australia, 2019). According to the Conservation Advice the diagnostic characteristics of the TEC are:

##### ***Key diagnosis characteristics***

- The ecological community is limited to patches of vegetation (with their associated biota) that meet all of the following key diagnostic characteristics:
- Occurs in the Swan Coastal Plain Bioregion, Western Australia (IBRA v7. Department of the Environment 2012).
- Primarily occurs on the Spearwood and Quindalup dune systems but can also occur on the Bassendean dunes and Pinjarra Plain. It can occur on the banks of rivers and wetlands.
- The primary defining feature is the presence of at least two living established *Eucalyptus gomphocephala* (Tuart) trees in the uppermost canopy layer, although they may co-occur with trees of other species. There is a gap of no more than 60 m between the outer edges of the canopies of adjacent Tuart trees. These trees may occur either as single stemmed trees or as a mallee growth form.
- Most often occurs as a woodland but can occur in other structural forms, For example, forest, open forest, woodland, open woodland, and various mallee forms.

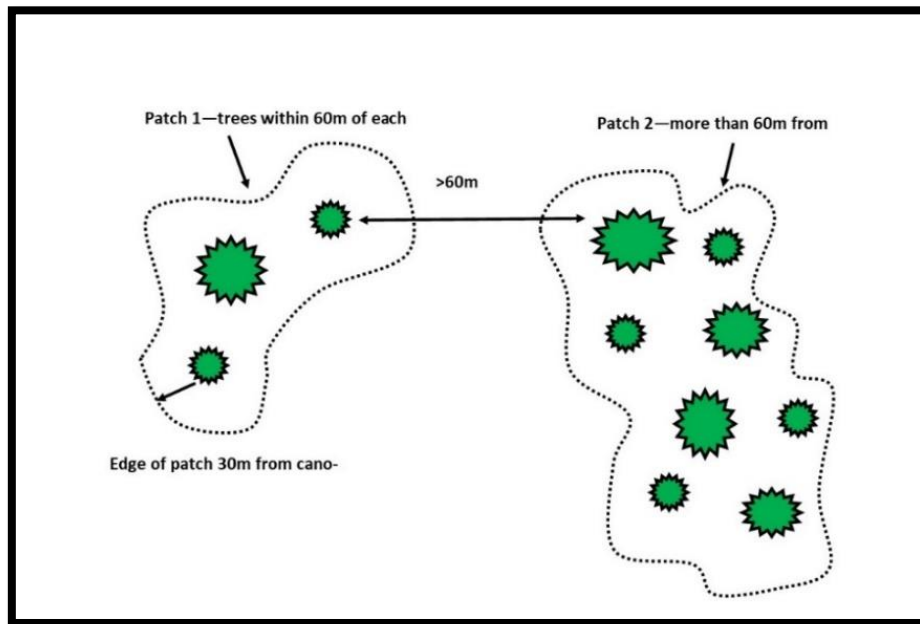
- Other tree species may be present in the canopy or sub-canopy. They commonly include: *Agonis flexuosa* (Peppermint) and *Banksia grandis* (Bull Banksia) (both in the southern part of the range), *Banksia attenuata* (Candlestick Banksia), *Eucalyptus marginata* (Jarrah); and less commonly, *Corymbia calophylla* (Marri), *Banksia menziesii* (Firewood Banksia) and *Banksia prionotes* (Acorn Banksia).
- An understorey of native plants is typically present, which may include grasses, herbs and shrubs, although this is often modified by disturbance. Some understorey plant species that are most commonly present are listed in Section 2.3.3 of the Conservation Advice.
- Native fauna species that are most commonly present are noted in Section 2.4 of the Conservation Advice (Commonwealth of Australia, 2019).

### ***Defining a patch of the ecological community***

- A patch of the ecological community is a discrete and mostly continuous area of vegetation that meets the key diagnostic characteristics.
- Boundaries for a patch can extend beyond a site or property boundary, or potential area of impact for a proposed action.
- The patch boundary is 30 m beyond the outer canopy of the established Tuart trees ( $\geq 15$  cm diameter at breast height (DBH)), including dead Tuart trees (stags). See Plate 5
- Where a dead Tuart tree (stag) is being considered for inclusion in a patch of the ecological community, the vertical projection of its outermost remaining branches is used to define the edge of its canopy. If the species of a stag tree is unclear, if the edge of its canopy is within 60 m of an identified Tuart tree the stag is presumed to be a Tuart.
- Patches of Tuart woodlands and forests may contain areas that vary in structural or biological complexity. One part of a patch may have a larger number of mature trees and more ecological diversity, whereas another part of the same patch may demonstrate fewer mature trees and less groundcover. Areas with soil exposed and/or plant litter can also be expected within this ecological community.
- Variation in quality or condition of vegetation across a patch should not necessarily be considered to be evidence of multiple patches. Patches of the ecological community can be spatially variable and are often characterised by one or more areas within a patch that meet higher condition thresholds amongst areas of lower condition.
- If an area meets the key diagnostic characteristics but the average condition across that area falls below the minimum condition thresholds, the largest area or areas of at least 0.5 ha that meet minimum condition thresholds on average, should be specified as the patch or patches of the nationally listed ecological community. This may result in multiple patches of the ecological community being identified within the overall area first identified as meeting the key diagnostics.
- A patch may include small areas without understorey vegetation, such as bare ground, as well as waterbodies or hardscape (e.g. roads, paths, car parks, or buildings) that do not significantly alter the overall function of the ecological community. These small areas do not break up a patch, or divide a patch into multiple patches, as long as there are some parts of the canopy within 60 m of the outer edges of the canopies of adjacent Tuart trees (as per Plate 5). However, existing buildings and other human-made structures and gardens are not

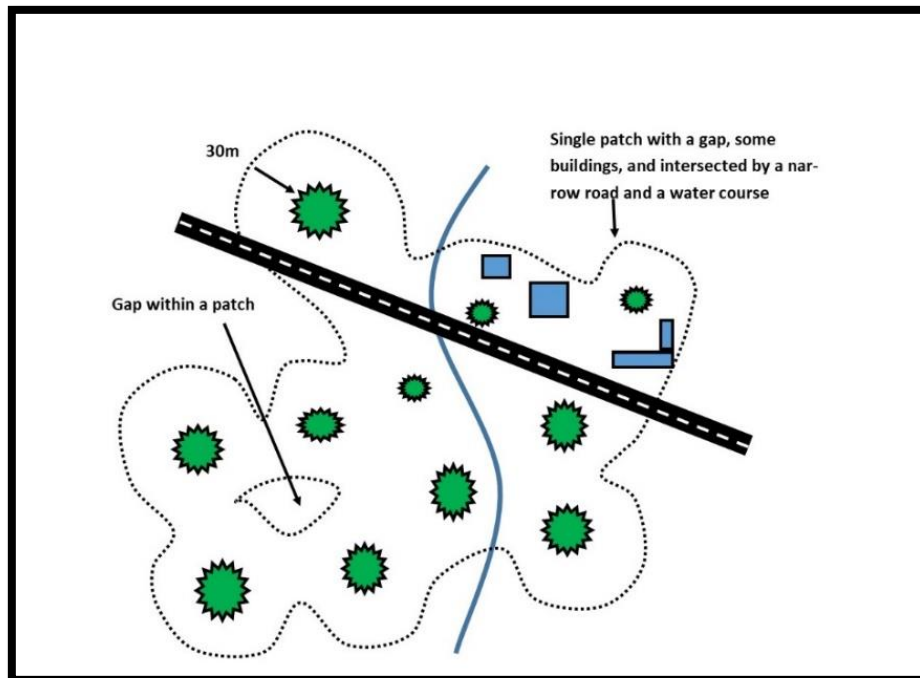
part of the nationally protected ecological community and should be excluded from the calculation of patch size and condition. See Plate 6 (Commonwealth of Australia, 2019).

**Plate 5: Tuart TEC Patch boundaries**



Source: Commonwealth of Australia, 2019

**Plate 6: Variation within a patch, including small areas without understorey vegetation, and a small gap within a patch due to part of the Tuart canopy being >60 m apart**



Source: Commonwealth of Australia, 2019

### Condition thresholds and categories

For confirmed patches of the ecological community, following the key diagnostic characteristics and patch definition above (Step 1), determine the following requirements for information on condition to indicate if they are part of the nationally protected ecological community:

- If the patch is smaller than 0.5 ha it is **not** part of the nationally protected ecological community.
- If **the patch is at least 0.5 ha and up to 5 ha** in size, conduct on ground surveys. Patches in this size range are presumed to be part of the nationally protected ecological community unless surveys indicate they do not meet the minimum condition required for national protection. For patches in this size range inclusion in the nationally protected ecological community is determined by surveyed characteristics such as native plant species richness and contribution to cover, habitat values, evidence of regeneration and landscape characteristics.
- **All patches of 5 ha or greater** that meet the key diagnostic characteristics **are part of the nationally protected ecological community**. It is not necessary to conduct additional surveys to confirm that they meet biotic condition thresholds (Table 7) and that they are protected.

**Table 7: Tuart TEC Condition Categories and Thresholds**

*All patches  $\geq 5$  ha is part of the nationally protected ecological community, regardless of their understorey condition. That is, thresholds in this table do not apply to patches  $\geq 5$  ha, but the key diagnostic characteristics and patch definition must be met.*

Patch size	$\geq 2$ ha <5 ha	$\geq 0.5$ ha <2 ha
<b>Biotic thresholds</b>		
<b>Very high condition</b> $\geq 80$ % of all understorey <sup>^</sup> vegetation cover is native <sup>#</sup> Or At least 12 native understorey <sup>^</sup> species per 0.01 ha (10 m x 10 m plot or equivalent sample unit)	Medium sized patches with very high condition understorey.  PART OF THE PROTECTED ECOLOGICAL COMMUNITY	Smaller patches with very high condition understorey.  PART OF THE PROTECTED ECOLOGICAL COMMUNITY
<b>High condition</b> $\geq 60$ % of all understorey <sup>^</sup> vegetation cover is native <sup>#</sup> Or At least 8 native understorey <sup>^</sup> species per 0.01 ha (10 m x 10 m plot or equivalent sample unit)	Medium sized patches with high condition understorey.  PART OF THE PROTECTED ECOLOGICAL COMMUNITY	Smaller patches with high condition understorey.  <b>AND</b> That either: have an important landscape role ( $\leq 100$ m to native vegetation)* OR have a habitat role ( $\geq 2$ very large trees per 0.5 ha)* OR show regeneration ( $\geq 15$ seedlings and/or saplings per 0.5 ha)*  PART OF THE PROTECTED ECOLOGICAL COMMUNITY

Patch size	≥2 ha <5 ha	≥0.5 ha <2 ha
<b>Biotic thresholds</b>		
<p><b>Moderate condition</b></p> <p>≥50 % of all understorey^ vegetation cover is native#</p> <p>Or</p> <p>At least 4 native understorey^ species per 0.01 ha (10 m x 10 m plot or equivalent sample unit)</p>	<p>Medium sized patches with moderate condition understorey.</p> <p><b>AND</b></p> <p>That either:</p> <p>have an important landscape role (≤100 m to native vegetation)*</p> <p>OR have a habitat role (≥2 very large trees per 0.5 ha)*</p> <p>OR show regeneration (≥15 seedlings and/or saplings per 0.5 ha)*</p> <p>PART OF THE PROTECTED ECOLOGICAL COMMUNITY</p>	<p><u>NOT PART OF THE PROTECTED ECOLOGICAL COMMUNITY</u></p> <p>(but may be a focus for local protection or restoration)</p>
<p><b>Poor</b></p> <p>Has minimal or no native cover and species richness. That is:</p> <p>&lt;50 % of all understorey^ vegetation cover is native#</p> <p>And</p> <p>Less than 4 native understorey^ species per 0.01 ha (10 m x 10 m plot or equivalent sample unit)</p>	<p><u>NOT PART OF THE PROTECTED ECOLOGICAL COMMUNITY</u></p> <p>(but may be a focus for local protection or restoration)</p>	<p><u>NOT PART OF THE PROTECTED ECOLOGICAL COMMUNITY</u></p> <p>(but may be a focus for local protection or restoration)</p>

### **Tuart Woodland TEC Assessment**

The key diagnostic characteristics of the Tuart Woodland TEC are contained in the Approved Conservation Advice for the TEC published at the time of the listing on 16 September 2016.

The Conservation Advice contains the following step-wise approach to use in determining if the TEC occurs on a site:

- Step 1: Is the Tuart Woodlands and Forests ecological community in your proposed project site? Is it in other adjacent or off-site areas that may be impacted (for example, by introducing weeds)?
- Step 2: What is the patch size and condition category of the Tuart Woodlands and Forests in the proposed project site and in the surrounding area?
- Step 3: What further information can assist in identifying patches of the Tuart Woodlands and Forests and avoiding significant adverse impacts?
- Step 4: Will your proposed action have a significant impact on Tuart Woodlands and Forests

## **Assessment**

The assessment of the Tuart Woodland TEC on the site is outlined in Table 8 and Table 9.

The definition of the Tuart Woodland TEC resulted in two separate patches of potential TEC on the site with Patch 1 extending off-site to the west.

As the definition of the Tuart Woodland TEC is based on the location of Tuart trees and extending 30m beyond the outermost canopy the boundary of the Tuart Woodland ecological community does not match the boundary of the Tuart Low Open Woodland which is based on vegetation structure and floristics. As a result, the boundary of the two Tuart Woodland patches overlaps vegetation types that do not contain Tuart woodland or Tuart woodland understorey.

The area of each Tuart woodland patch was calculated as 4.52ha for Patch 1 (3.06ha inside the lot and 1.46ha on the lot to the west) and 2.96ha for Patch 2 (2.91ha on the lot and 0.05ha on the lot to the east).

The conclusion of the assessment is that the two patches of Tuart vegetation are part of the Tuart Woodlands and Forests TEC. The total area of Tuart Woodland TEC on the site is calculated to be 5.97ha (Figure 5).

*Step 1: Is the Tuart Woodlands and Forests ecological community in your proposed project site? Is it in other adjacent or off-site areas that may be impacted (for example, by introducing weeds)?*

**Table 8: Tuart Woodland TEC Step 1 Diagnostics**

Key diagnostic characteristics <sup>†</sup>	Information	Key diagnostic questions* (Refer to Section 3.2 of the Approved Conservation Advice for a complete explanation of these diagnostic features – other sections of the Approved Conservation Advice are referenced where relevant)	Response (yes/no/possibly) and detailed comments. Use as much space as you need to fully answer the question <sup>#</sup>
Location and physical environment	Bioregion	Is the proposal site within the Swan Coastal Plain IBRA bioregion?	Yes
Soils and Landform	Soil type	Is the soil type consistent with where the Tuart Woodlands and Forests may occur? (see Section 2.2.1 <sup>†</sup> )	Yes, Spearwood Dune soil type
	Location in the landscape, topography	Is the topography/physical environment consistent with where the Tuart Woodlands and Forests may occur? Is the site associated with any hydrology (groundwater/surface water)?	Yes, Tuarts commonly found in the Postans area. Not associated with any hydrology
Structure	Presence of Tuart trees	How many Tuart trees are present and are they consistent with the characteristics set out in the Approved Conservation Advice? <b>Note:</b> Please present this information in terms of total number of trees (dead, established, seedlings etc.) and trees per hectare of the footprint. Diagrams/maps should also be provided.	At least 50 established Tuarts on the site including 38 with a dbh >50cm
	Structural form	What structural form is the vegetation?	Low Woodland
Composition	Dominant tree species, emergent tree layer, understory	Is the composition of the community consistent with the characteristics set out in the Approved Conservation Advice? What other tree species are present? How many native understorey species are present and what is the number of weedy species/proportion of weeds?	Tuarts mostly in pure stands but sometimes with Jarrah and Banksia trees. Native understorey low with a range of 10-15 in quadrats (average 12.5) and with abundant weed species and cover. Refer to quadrat data.



Key diagnostic characteristics <sup>†</sup>	Information	Key diagnostic questions* (Refer to Section 3.2 of the Approved Conservation Advice for a complete explanation of these diagnostic features – other sections of the Approved Conservation Advice are referenced where relevant)	Response (yes/no/possibly) and detailed comments. Use as much space as you need to fully answer the question <sup>#</sup>
Defining a patch of Tuart Woodlands and Forests	Patch definition	What is the extent of the patch?  <b>Note:</b> Descriptions of patch extent must include analysis of canopy extent and associated understorey vegetation (see Section 3.2.2 <sup>†</sup> ). Patches may extend beyond the project area or include areas of infrastructure (i.e. road, powerline). The referral should make clear how, and how much of the patch will be directly or indirectly impacted.	Two patches mapped within the boundary of the site With Patch 1 extending to the west and south-west outside the boundary of the site. Area of Patch 1 (on and off-site) = 4.52ha Area of Patch 2 (on and off-site) = 2.96ha
Relationship with other ecological communities	Other vegetation communities	Are other vegetation communities present? What are they and how do they intergrade and/or interact with the Tuart Woodlands and Forests TEC? (see Section 3.2.3 <sup>†</sup> )	Native Jarrah, Banksia and <i>Acacia rostellifera</i> occurs to the north, east and south of the patch.

The complete key diagnostic characteristics are provided in the Approved Conservation Advice.

\* The Tuart Woodlands and Forests may include restored, planted or revegetated flora. Do not exclude vegetation from being classed as the Tuart Woodlands and Forests because it is a planted, restoration or revegetation site (unless it is a garden).

<sup>#</sup> Comments should include references to appropriate supporting information and data.

Step 2: What is the patch size and condition category of the Tuart Woodlands and Forests in the proposed project site and in the surrounding area?

**Table 9: Tuart Woodland TEC Step 2 Diagnostics**

Size and condition <sup>†</sup>	Information	Relevant content to be discussed in the referral (Refer to Section 3.3 of the Approved Conservation Advice for a complete explanation of these diagnostic features)	Detailed comments. Use as much space as you need to fully answer the question <sup>#</sup>
Patch Size	Patch size in hectares	Is the patch size large enough to meet the minimum patch size in this section? (Section 3.3 <sup>†</sup> )  <b>Note:</b> Patch boundaries are not limited to the proposal site. You must make clear that the patch boundary is consistent with Section 3.2.2 <sup>†</sup> .	Both patch sizes are larger than the 0.5ha minimum

Size and condition <sup>♦</sup>	Information	Relevant content to be discussed in the referral (Refer to Section 3.3 of the Approved Conservation Advice for a complete explanation of these diagnostic features)	Detailed comments. Use as much space as you need to fully answer the question <sup>#</sup>
Patch condition	Condition thresholds	<p>Using the condition categories in this section, what is the patch condition? (Section 3.3.1<sup>♦</sup>)</p> <p>What is the quality and size (hectares) of the vegetation community in and around the site where the proposed action will occur? Is the patch expected to improve in condition (e.g. after appropriate fire management) or is there a threatening process underway that will reduce the current size and/or condition?</p> <p><b>Note:</b></p> <p>Refer to Section 3.4 – Step 3 – Further information to assist in identifying patches of the protected ecological community and avoiding significant adverse impacts</p> <p>If patch quality varies over the site; characterisation of the variation should be provided. Patch condition includes consideration of thresholds for characteristics such as plant species richness, landscape features, Tuart tree age and size and other habitat roles of the vegetation. Other vegetation condition measures (e.g. Keighery scale) do not necessary reflect the condition thresholds and both should be provided, where relevant. Where threats are identified (i.e. those listed in Appendix C of the Approved Conservation Advice) please provide further information on what these are and how they have impacted the condition.</p>	Condition category with an average of 12.5 native understorey species is rated as Very High. Both patches are above the 0.5ha minimum for an area of Tuart woodland in Very High category to be the TEC.

♦ Further information on the key diagnostic characteristics is provided in the Approved Conservation Advice.

# Comments should include references to appropriate supporting information and data. The response which includes the information does not need to be presented in table form.

(Commonwealth of Australia, 2019)

#### 4.5.2.4 Banksia Woodland TEC Assessment

The Banksia Woodlands of the Swan Coastal Plain Threatened Ecological Community (Banksia Woodland TEC) is listed as an Endangered TEC under the Commonwealth EPBC Act. The Banksia Woodland community is a conglomerate of a number of Banksia-dominated FCTs recognised at State level. FCT 23a is one of the FCTs that form part of the Banksia Woodland TEC. However, the identification of one of the relevant FCTs on a site is not of itself sufficient to assign the vegetation to the Banksia Woodland TEC. The vegetation needs to meet specific criteria to be considered the TEC.

The *Approved Conservation Advice (incorporating listing advice) for the Banksia Woodlands of the Swan Coastal Plain ecological community* (Commonwealth of Australia, 2016) (Conservation Advice) describes the Banksia Woodland TEC as:

*The ecological community is a woodland associated with the Swan Coastal Plain of southwest Western Australia. A key diagnostic feature is a prominent tree layer of Banksia, with scattered eucalypts and other tree species often present among or emerging above the Banksia canopy. The understorey is a species rich mix of sclerophyllous shrubs, graminoids and forbs. The ecological community is characterised by a high endemism and considerable localised variation in species composition across its range* (Commonwealth of Australia, 2016).

Table 10 assesses the vegetation type on the site against the Banksia Woodland TEC criteria contained in the Conservation Advice.

In summary, the Jarrah/Banksia (EmBa) vegetation type was considered to meet all the requirements of the Banksia Woodland TEC, listed as Priority 3 in Western Australia. While the density of Banksia trees was not high (average around 10%) they were considered to form a distinctive tree layer with the more dominant Jarrah trees. The size of the patch of Jarrah/Banksia, around 9.1ha, is well over the minimum 2ha required for vegetation in Good condition.

A total of around 9.1ha of Banksia Woodland TEC is mapped on the site (Figure 5).

The area containing Tuart woodland (Eg vegetation type) were not considered to meet the definition of the Banksia Woodland TEC. While *Banksia attenuata* was present as a secondary tree layer with the Tuarts, the density of Banksia trees was very low (2% average) and was not considered a distinctive upper layer of trees as the Banksia Woodland TEC requires. No young Banksia saplings or seedlings were observed on the site, indicating that the Tuart woodland will not regenerate over time to have a more distinctive Banksia tree cover.

**Table 10: Assessment of the Banksia Woodland of the Swan Coastal Plain TEC.**

Feature	Characteristic	Vegetation Type	
		Eg	EmBa
		<i>Eucalyptus gomphocephala</i> Low Open Woodland over <i>Banksia attenuata</i> / <i>Allocasuarina fraseriana</i> Low Open Woodland over <i>Acacia pulchella</i> / <i>Grevillea vestita</i> / <i>Xanthorrhoea preissii</i> Open Low Heath	<i>Eucalyptus marginata</i> / <i>Banksia attenuata</i> Low Woodland to Low Open Woodland over <i>Xanthorrhoea preissii</i> Open Low Heath
Banksia Species	The patch must include at least one of the following diagnostic species: <ul style="list-style-type: none"> <li>• <i>Banksia attenuata</i> (Candlestick Banksia)</li> <li>• <i>Banksia menziesii</i> (Firewood Banksia)</li> <li>• <i>Banksia prionotes</i> (Acorn Banksia)</li> <li>• <i>Banksia ilicifolia</i> (Holly-Leaved Banksia).</li> </ul>	<i>Banksia attenuata</i> present	<i>Banksia attenuata</i> present.
Vegetation Structure	<ul style="list-style-type: none"> <li>• A distinctive upper sclerophyllous layer of low trees (occasionally large shrubs more than 2 m tall), typically dominated or codominated<sup>3</sup> by one or more of the <i>Banksia</i> species (<i>B. attenuata</i>, <i>B. menziesii</i>, <i>B. ilicifolia</i>, <i>B. prionotes</i>);</li> <li>• An emergent tree layer of medium or tall (&gt;10 m) height <i>Eucalyptus</i> or <i>Allocasuarina</i> (Sheoak) species may sometimes be present above the <i>Banksia</i> canopy.</li> <li>• An understory that is often highly species-rich consists of: <ul style="list-style-type: none"> <li>– A layer of sclerophyllous shrubs of various heights; and,</li> <li>– A herbaceous ground layer of cord rushes, sedges and perennial and ephemeral forbs, that sometimes includes grasses. The development of a ground layer may vary depending on the density of the shrub layer and disturbance history.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Banksia trees do not form a distinctive upper layer of low trees. Where present they represent about 2% canopy cover mixed with Tuart trees</li> <li>• Tuart (<i>Eucalyptus gomphocephala</i>) is always emergent in this vegetation type.</li> <li>• Understorey of shrubs, sedges, herbs in Good condition have a low diversity of native species including shrubs, sedges, climbing plants and ephemerals.</li> </ul>	<ul style="list-style-type: none"> <li>• Banksia trees range from sparse to common with an average canopy cover of around 10% forming a reasonably distinctive upper layer of trees.</li> <li>• Jarrah (<i>Eucalyptus marginata</i>) is always emergent in this vegetation type</li> <li>• Understorey of shrubs, sedges, herbs, in Good condition have a low diversity of native species including shrubs, sedges, climbing plants and ephemerals. Completely Degraded areas have very few native species.</li> </ul>
Vegetation Condition	An area of Banksia woodland needs to be at least in Good condition to be considered the TEC.	Vegetation type is all Good	Vegetation type is all Good
Patch Size	The Banksia woodland TEC needs to meet a minimum 'patch' size depending on its condition to qualify as the TEC, as follows: <ul style="list-style-type: none"> <li>• 'Pristine' – no minimum patch size</li> <li>• 'Excellent' – 0.5ha</li> <li>• 'Very Good' – 1ha</li> <li>• 'Good' – 2ha</li> </ul>	One patch of Tuart vegetation occurs on the site with an area of around 3.9ha	One patch of EmBa on site with an area of around 9.1ha.
<b>Conclusion</b>		Banksia trees do not form a distinctive upper layer of low trees. The Tuart woodland vegetation type is therefore not considered part of the Banksia Woodland TEC.	Meets the definition of the Banksia Woodland TEC.

(Commonwealth of Australia, 2016)

## 5 SUMMARY AND CONCLUSIONS

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The Flora and Vegetation survey of the site resulted in the following findings:

- A total of 109 plant species were recorded during the 2020 flora survey. This total consisted of 73 native species and 36 (33%) introduced species;
- No Threatened (Declared Rare) or Priority flora species were recorded on the site;
- Three vegetation types were described and mapped on the site: *Acacia rostellifera* Closed Heath to Tall Open Scrub, Tuart Low Woodland, and Jarrah/Banksia Low Open Woodland;
- The vegetation was all rated in Good condition with a relatively low number of native species and a high proportion of weeds in the understorey;
- The vegetation is part of the Cottesloe – Central and South Vegetation complex which is well retained in the Perth Metropolitan Region;
- The vegetation was assessed as being part of FCT28 ‘Spearwood *Banksia attenuata* or *B. attenuata* – *Eucalyptus* woodland’;
- The vegetation is not a Threatened Ecological Community at State level;
- Two patches of Tuart woodland ecological community as defined under the EPBC Act were assessed as occurring on the site, with one patch extending onto the site to the west. Both patches were rated as being in Very Good condition and were large enough (>0.5ha) to meet the criteria for the Tuart Woodlands and Forests TEC which is listed as Critically Endangered under the Commonwealth EPBC Act and Priority 3 in Western Australia. The total area of Tuart Woodland TEC on the site is calculated to be 5.97ha;
- The Jarrah/Banksia vegetation type (EmBa) was assessed as meeting the criteria for the Banksia Woodlands of the Swan Coastal Plain TEC which is listed under the EPBC Act and Priority 3 in Western Australia. A total of 9.1ha of the Banksia Woodland TEC is mapped on the site in one large patch; and
- Any proposed clearing of the Tuart Woodland TEC or Banksia Woodland TEC will require a Referral under the EPBC Act and likely Controlled Action assessment.

## 6 REFERENCES

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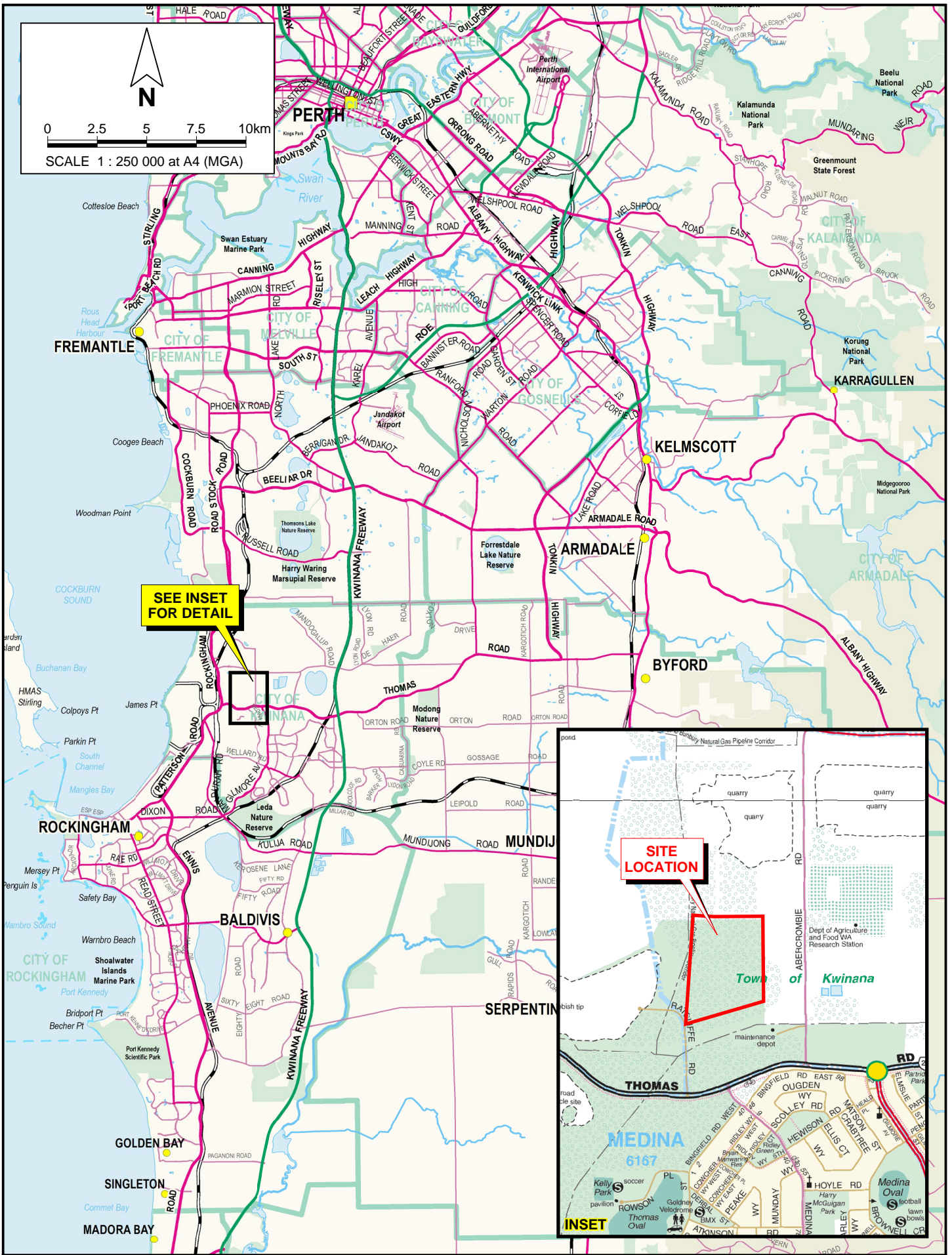
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# FIGURES



PINPOINT CARTOGRAPHICS (08) 9562 7136  
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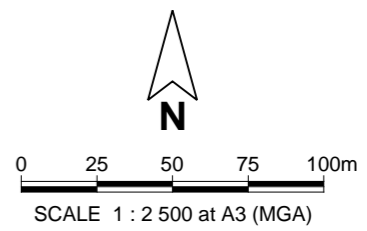
Drawn: P. van der Moezel Job: 10399 Rpt: 2020-543	Date: 7 Dec 2020 Revision: A

WA Limestone  
 FLORA AND VEGETATION SURVEY  
 M70/656 ABERCROMBIE ROAD, POSTANS

SITE LOCATION

Figure 1





- Legend**
- - - Site Boundary
  - Cadastral Boundary
  - - - Easement Boundary
  - Topographic Contour

TENEMENT SOURCE: DMIRS, March 2020.  
 CONTOURS SOURCE: Dept. of Agriculture, 2000.  
 CADASTRAL SOURCE: Landgate, December 2020.  
 AERIAL PHOTOGRAPH SOURCE: NearMap, flown November 2020.

PINPOINT CARTOGRAPHICS (08) 9562 7136 2020-543-102.dgn

**pgv** ENVIRONMENTAL

Drawn: P. van der Moezel Date: 7 Dec 2020

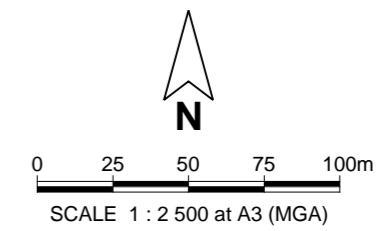
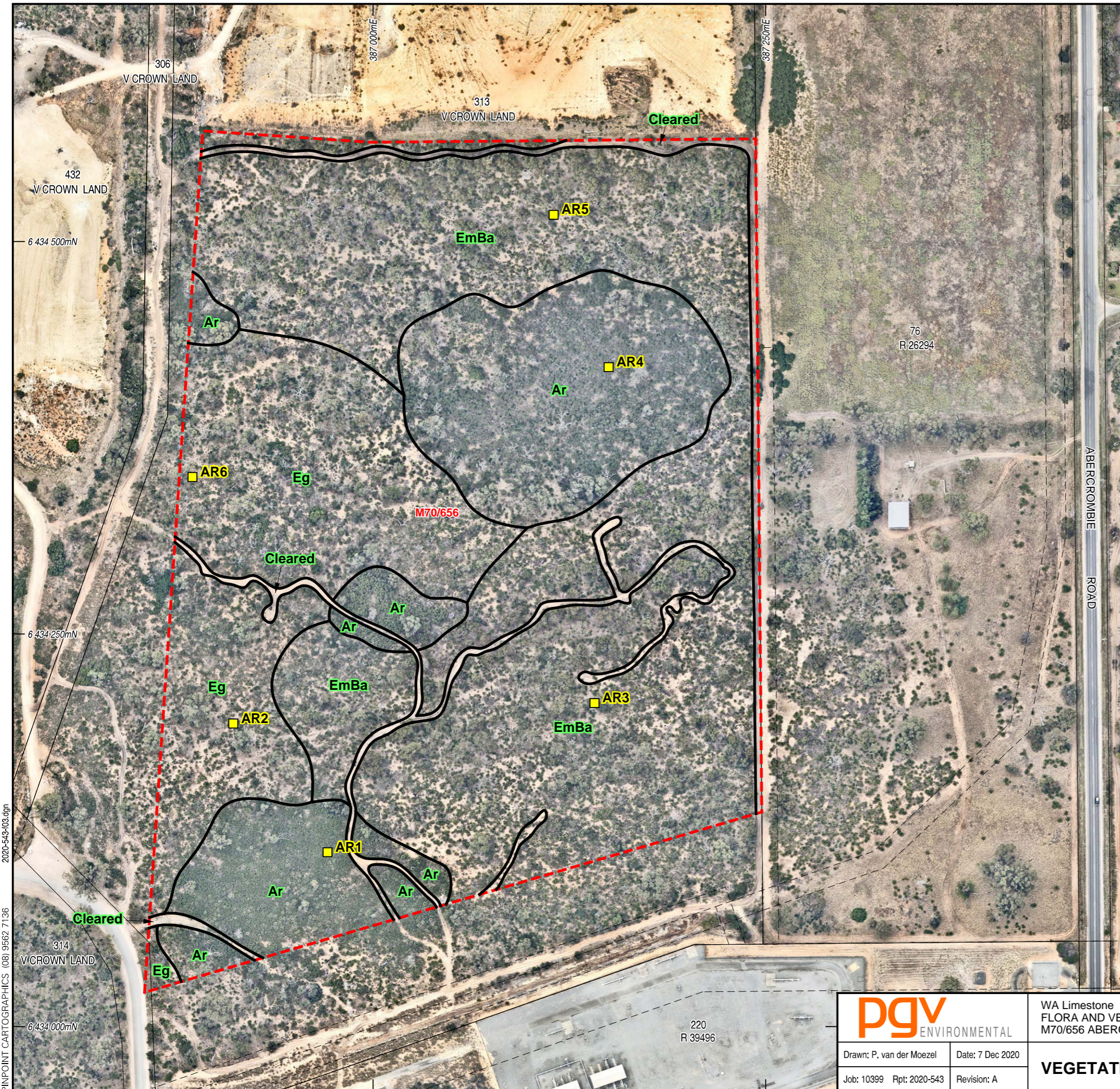
Job: 10399 Rpt: 2020-543 Revision: A

WA Limestone  
 FLORA AND VEGETATION SURVEY  
 M70/656 ABERCROMBIE ROAD, POSTANS

**SITE BOUNDARY AND TOPOGRAPHY**

**Figure 2**





- Legend**
- - - Site Boundary
  - Cadastral Boundary
  - Easement Boundary
  - Quadrat Location
  - Vegetation Type Boundary
  - Ar Vegetation Type

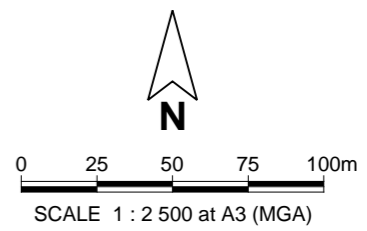
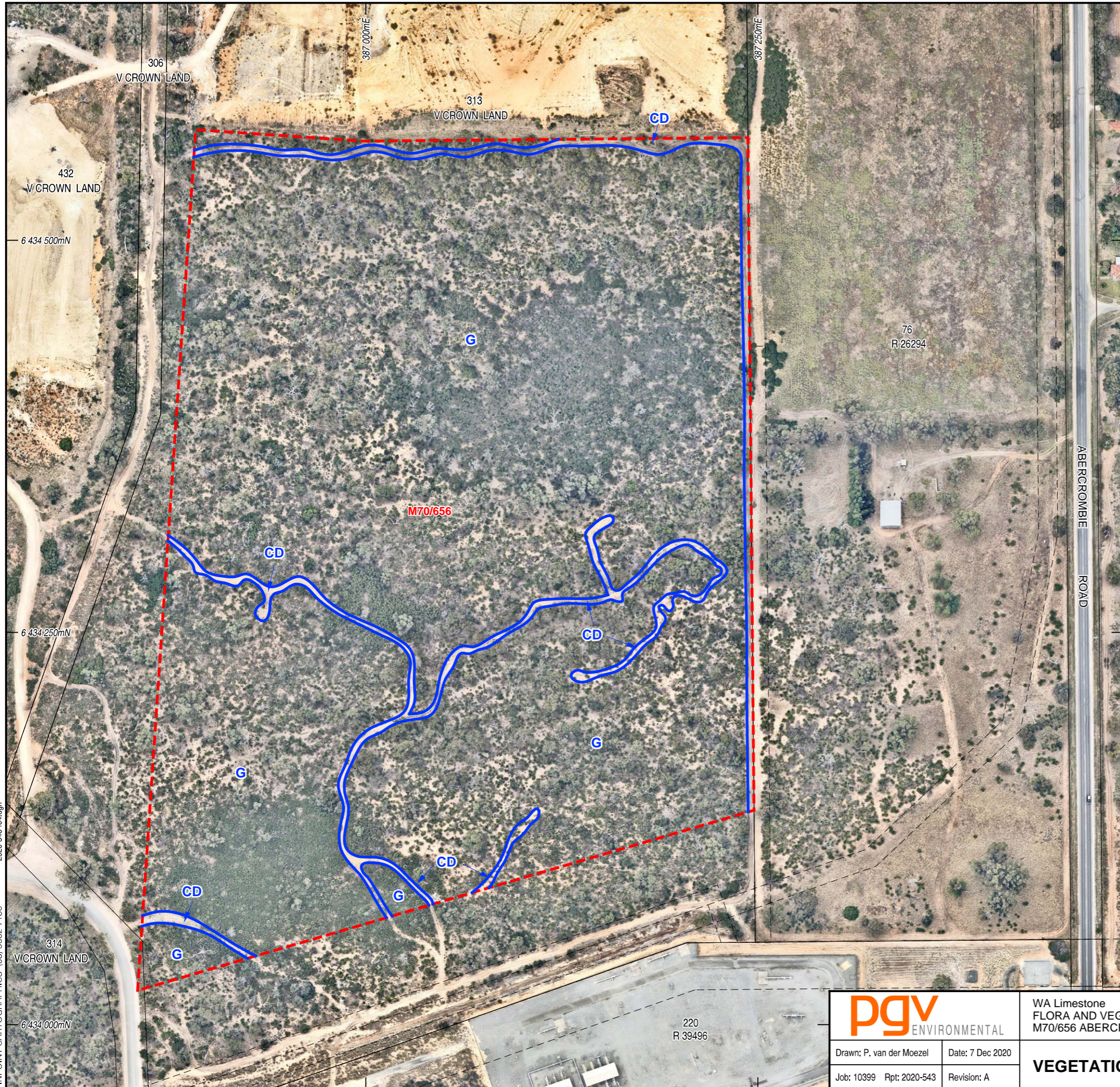
- Vegetation Types**
- Ar**  
*Acacia rostellifera* Closed Heath to Tall Open Scrub over weeds
- Eg**  
*Eucalyptus gomphocephala* Low Open Woodland over *Banksia attenuata/Allocasuarina fraseriana* Low Open Woodland over *Acacia pulchella/Grevillea vestita/Xanthorrhoea preissii* Open Low Heath
- EmBa**  
*Eucalyptus marginata/Banksia attenuata* Low Woodland to Low Open Woodland over *Xanthorrhoea preissii* Open Low Heath

TENEMENT SOURCE: DMIRS, March 2020.  
 CADASTRAL SOURCE: Landgate, December 2020.  
 AERIAL PHOTOGRAPH SOURCE: NearMap, flown November 2020.

		WA Limestone FLORA AND VEGETATION SURVEY M70/656 ABERCROMBIE ROAD, POSTANS	Figure 3
Drawn: P. van der Moezel	Date: 7 Dec 2020	VEGETATION TYPES AND QUADRAT LOCATIONS	
Job: 10399 Rpt: 2020-543	Revision: A		

2020-543-103.dgn  
 PINPOINT CARTOGRAPHICS (08) 9562 7136





- Legend**
- - - Site Boundary
  - Cadastral Boundary
  - Easement Boundary
  - Vegetation Condition Boundary
  - VG Vegetation Condition

**Vegetation Condition**  
(SOURCE: Bush Forever, Govt. of W.A., 2000)

**P - Pristine**  
Pristine or nearly so, no obvious signs of disturbance.

**Ex - Excellent**  
Vegetation structure intact, disturbance affecting individual species and weeds are non aggressive species.

**VG - 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.

**G - 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.

**D - 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.

**CD - Completely Degraded**  
The structure of the vegetation is no longer intact and the areas is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora composing weed or crop species with isolated native trees or shrubs.

**CI - Cleared**  
No native vegetation remaining.

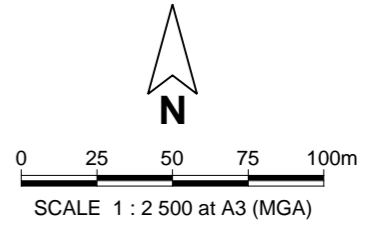
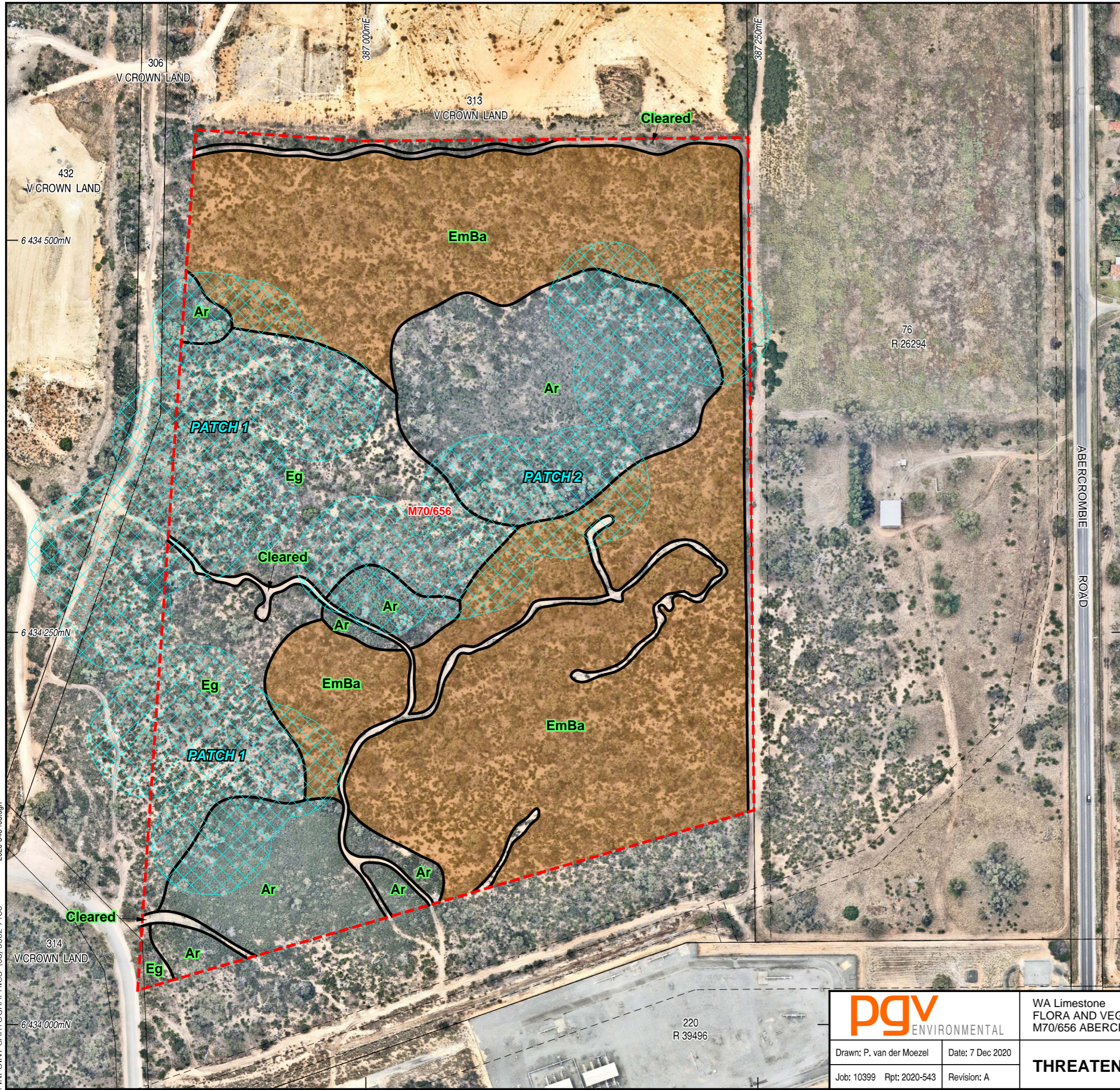
TENEMENT SOURCE: DMIRS, March 2020.  
CADASTRAL SOURCE: Landgate, December 2020.  
AERIAL PHOTOGRAPH SOURCE: NearMap, flown November 2020.

		WA Limestone FLORA AND VEGETATION SURVEY M70/656 ABERCROMBIE ROAD, POSTANS	
		<b>VEGETATION CONDITION</b>	
Drawn: P. van der Moezel	Date: 7 Dec 2020		
Job: 10399 Rpt: 2020-543	Revision: A		

**Figure 4**

PINPOINT CARTOGRAPHICS (08) 9562 7136 2020-543-104.dgn





- Legend**
- - - Site Boundary
  - Cadastral Boundary
  - Easement Boundary
  - Vegetation Type Boundary
  - Ar Vegetation Type
- Threatened Ecological Communities**
- Tuart Woodland TEC
  - Banksia Woodland TEC

**Vegetation Types**

- Ar**  
*Acacia rostellifera* Closed Heath to Tall Open Scrub over weeds
- Eg**  
*Eucalyptus gomphocephala* Low Open Woodland over *Banksia attenuata/Allocasuarina fraseriana* Low Open Woodland over *Acacia pulchella/Grevillea vestita/Xanthorrhoea preissii* Open Low Heath
- EmBa**  
*Eucalyptus marginata/Banksia attenuata* Low Woodland to Low Open Woodland over *Xanthorrhoea preissii* Open Low Heath

TENEMENT SOURCE: DMIRS, March 2020.  
 CADASTRAL SOURCE: Landgate, December 2020.  
 AERIAL PHOTOGRAPH SOURCE: NearMap, flown November 2020.



WA Limestone  
 FLORA AND VEGETATION SURVEY  
 M70/656 ABERCROMBIE ROAD, POSTANS

Drawn: P. van der Moezel Date: 7 Dec 2020  
 Job: 10399 Rpt: 2020-543 Revision: A

**THREATENED ECOLOGICAL COMMUNITIES**

**Figure 5**

2020-543-105.dgn  
PINPOINT CARTOGRAPHICS (08) 9562 7136



# **APPENDIX 1**

## **DBCA Flora Database Searches**

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
2684	190705	14932	Acacia lasiocarpa var. bracteolata long peduncle variant (G.J. Keighery 5026)	1		Black sandy swampy area.	Jarrah.			AUTO	3	26/08/1957
2687	619884	14932	Acacia lasiocarpa var. bracteolata long peduncle variant (G.J. Keighery 5026)	1	Low spreading, sparsely branched shrub, to 1 m x 1 m. Flowers yellow.	Low lying sand over clay. Winter wet, open.				AUTO	3	5/08/1982
3965	9047905	48762	Acacia sp. Binningup (G. Cockerton et al. WB 37784)	1	Suckering clumping shrubs to 1.5 m.	Sand.	Tuart woodland. Associated species: Acacia saligna, Xanthorrhoea preissii, Rhagodia baccata, Spyridium globosum, Acacanthocarpus preissii and annual grasses.	c. 200 in 20 m x 20 m.		GPS	1	24/10/2017
5796	9004637	48332	Amanita preissii	3	Pileus 83 mm diameter, cream (C, pale 3A2), plane with decurved margin and slightly raised centre, margin not striate, appendiculate. Universal veil on pileus crustose, thin, as small soft floccose warts, adnate, white. Lamellae cream (D, 3A2-4A2), narro		Banksia/eucalypt woodland with Kunzea ericifolia, Acacia pulchella, Eucalyptus marginata.	one.		GPS	1	4/06/2018
5809	8942137	43542	Amanita wadjukiorum	3	Pileus 90 mm diameter, milky coffee (5D4-6D4), plane with depressed centre and upturned margin, dry, margin not striate, appendiculate. Universal veil on pileus as large straight sided warts in centre of disc, vinaceous buff (6B2), adnate. Lamellae cream		Jarrah/marri/banksia woodland. Eucalyptus marginata, Corymbia calophylla.	one.		GPS	1	18/06/2017



FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
7121	4095251	141	Aponogeton hexatepalus	4	Aquatic bulbous herb 15 cm high.	Seasonal wetland on Pinjarra Plain. Red loam.	Open Melaleuca viminea scrub over Leptocarpus coangustus dense low sedges.	common.		GPS	1	7/08/1992
7768	567426	35317	Austrostipa mundula	3	Caespitose perennial grass. Erect open shrub, 40 cm high.	In sand over limestone.				MAN	3	30/08/1967
7923	3377962	45402	Babingtonia urbana	3	Flowers white and pink centres.	Dry summer swamp. Sandy white clay soil.	Heath type vegetation.			MAN	0	23/03/1981
11310	7332025	16633	Boronia juncea subsp. juncea	1	Shrub to 1 m high x 0.5 m wide. Pink and purple flowers.	Gentle slope with a north aspect. Surface soil is dark brown sandy loam and sub surface soil is dark brown sandy loam. Drainage is poor and wet during winter and spring only with soil being waterlogged at present.	Melaleuca preissiana, M. rhapsiophylla low open woodland over Astartea scoparia closed heath over Centella asiatica herbland. Excellent to pristine vegetation condition with some weed species affecting the herb layer.	a couple.	GPS	1	2/12/2005	
12519	908622	1596	Caladenia huegelii	T	To 80 cm tall, one with two flowers, no odour.	In grey sand on gently undulating terrain.	Low woodland - low forest over scrub and heath; Banksia attenuata, B. menziesii, B. ilicifolia, Allocasuarina fraseriana, Eucalyptus todtiana, E. marginata over Adenanthos.	Abundanc e: four plants in full flower.	MAN	3	9/09/1985	
12527	256021	1596	Caladenia huegelii	T		In sandy soil.	Jarrah - Banksia woodland.			MAN	3	7/09/1958
12531	4421213	1596	Caladenia huegelii	T	Up to 60 cm high.	Coastal plain. Grey sand.	Closed Banksia woodland. Banksia sp., Stirlingia latifolia, Hibbertia spp., Hypocalymma robustum, Conostephium pendulum	Abundanc e: 23 plants flowering. Plants found only in 'depressio n' ca 50 m x 75 m.	GPS	1	20/09/1996	

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
12532	4421205	1596	Caladenia huegelii	T	Up to 60 cm high.	Coastal plain. Grey sand.	Closed Banksia woodland. Banksia sp., Stirlingia latifolia, Hibbertia spp., Hypocalymma robustum, Conostephium pendulum		Abundance: 23 plants flowering. Plants found only in 'depression' ca 50 m x 75 m.	GPS	1	20/09/1996
12537	6752624	1596	Caladenia huegelii	T	Ca 30 cm tall. Linear hairy leaf 15 cm x 1 cm.	Grey sand.	Low open woodland of Melaleuca preissiana over Open Shrubland of Melaleuca thymoides over Dasypogon sp. and Desmocladus sp. herbland on lower slopes.	2 mature plants, one dead over 2 sq m.	Condition of population: healthy.	GPS	1	30/10/2003
12542	7439938	1596	Caladenia huegelii	T		Private land. Flat. White / grey sand.		452 mature plants.	Healthy population but at risk from disturbance given location and proximity to sand.	GPS	1	21/10/2004
16310	7332149	16245	Cyathochaeta teretifolia	3	Tufty sedge with height of 1.5 m and width of 1 m.	Gentle slope with a north aspect. Surface soil is dark brown sandy loam and sub surface soil is dark brown sandy loam. Drainage is poor and wet during winter and spring only with soil being waterlogged at present.	Melaleuca preissiana, M. rhapsiophylla low open woodland over Astartea scoparia closed heath over Centella asiatica herbland. Excellent to pristine vegetation condition with some weed species affecting the herb layer.	locally common.	Outside quadrat.	GPS	1	2/12/2005
16322	7858736	16245	Cyathochaeta teretifolia	3		Black peat.	Melaleuca preissiana, Eucalyptus rudis subsp. rudis, Pteridium esculentum			GPS	0	24/10/2007

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
16335	6534163	16245	Cyathochaeta teretifolia	3						MAN	3	10/12/1995
18776	9012524	10796	Diuris drummondii	T						MAN	4	1/11/1959
18785	8891451	10796	Diuris drummondii	T						MAN	3	6/12/1959
18800	4981588	12938	Diuris micrantha	T						AUTO	3	24/09/1984
18802	8063621	12938	Diuris micrantha	T	Plants tall, flowers very small, yellow with red-brown markings.	Swamp. Black peaty soil.	Miscellaneous rushes and sedges.			UNK	3	23/09/1985
18804	8649731	12938	Diuris micrantha	T	Orchid.	Swamp. Inundated black clay peat. Burnt in 2009.	Open scrub over dense low sedges. Lepidosperma longitudinale, Wurmbea sp., Burchardia sp., Romulea rosea, Trifolium sp., cape tulip.	7 plants.	Area occupied is c. 2.5 m x 1.5 m. Populatio n 1a.	GPS	1	22/09/2009
18812	7500971	1637	Diuris purdiei	T		Burnt winter wet swamp on N side (private land). Burnt last summer.	Low heath of Homalospermum, Pericalymma ? etc. over sedges and many herbaceous species, Drosera, Stylidium etc. Paperbarks (Melaleuca preissiana).	30+ plants.		UNK	3	11/10/1987
18907	4260171	4763	Dodonaea hackettiana	4						AUTO	2	28/11/1993
18911	1157663	4763	Dodonaea hackettiana	4	Shrub 2.5 m high. Fruit red/green.	Grey sand.				MAN	3	20/12/1980
18912	1157566	4763	Dodonaea hackettiana	4						MAN	3	11/11/1981
18913	1157655	4763	Dodonaea hackettiana	4					2159/62/ 2.	MAN	3	/09/1962

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
18915	1157132	4763	Dodonaea hackettiana	4	Erect shrub, 2 m high, variable age structure.	Disturbed area, in sandy paddock.	Eucalyptus marginata open forest, with grasses, Carpobrotus sp.		Abundanc e: large populatio n, dominant shrub. (Within populatio n 3262- 3267). Abundanc e: large populatio n, dominant shrub. (Within populatio n 3262- 3267).	MAN	3	5/12/1978
18916	1157124	4763	Dodonaea hackettiana	4	Erect shrub, 1 m high, variable age structure.	Disturbed area, in sandy paddock.	Eucalyptus marginata open forest, with grasses, Carpobrotus sp.		Abundanc e: large populatio n, dominant shrub. (Within populatio n 3262- 3267). Abundanc e: large populatio n, dominant shrub. (Within populatio n 3262- 3267).	MAN	3	5/12/1978
18918	1157612	4763	Dodonaea hackettiana	4	Erect shrub, of small tree, 4 - 5 m high.	Sand with outcropping limestone.	Tall danse Banksia forest.		(Within populatio n 3268- 3271).	MAN	3	5/12/1978
18920	1157647	4763	Dodonaea hackettiana	4	Erect shrub, ca 1.5 m high.	Level, but disturbed sand.		rare.		MAN	4	22/04/1986
18921	4594711	4763	Dodonaea hackettiana	4	Tall shrub 3 m high x 1-1.5 m wide.	Flat, leaf litter, grey sand over limestone.	Eucalyptus rudis, Banksia sp.	rare, localised.		AUTO	3	10/12/1996
18926	7104588	4763	Dodonaea hackettiana	4	Perennial, erect shrub, 4 m high x 3 m wide. Orange flowers. Reproductive method: seeds.	Plain. Reserve. Lake upland. Beeliar Regional Park. Grey dry sand. Soil disturbed 20 years ago.	Tall trees with Eucalyptus rudis and paperbarks.	6-20 plants in 10 m x 10 m area.	Populatio n structure: 50% in bud, 100% flowering. With many alien species.	GPS	1	16/10/2003

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
18930	6097774	4763	<i>Dodonaea hackettiana</i>	4	Slender tall shrub 4/5 m high. In fruit.	Dune, grey sand.	Acacia rostellifera tall shrubland over Melaleuca systema.	scattered.		GPS	1	28/10/2001
18995	231282	1639	<i>Drakaea elastica</i>	T		In deep grey sand on gradual slopes in undulating plain.	Low woodland of Banksia attenuata, B. menziesii, B. ilicifolia, and Jarrah over scrub of Adenanthos cygnorum and Kunzea over herbs.	ca 60 plants.	Abundance: ca 60 plants.	MAN	3	28/10/1982
29317	3358232	2054	<i>Grevillea olivacea</i>	4	Open erect shrub 1-2 m, style red; perianth green-red.	Coastal dunes. White sand.	Coastal Acacia shrubland.		Self seeding from plantings.	MAN	3	13/07/1993
33821	4463781	20462	<i>Jacksonia gracillima</i>	3	Swamp Form. Low spreading shrub.	Soil: Grey sand. Topography/drainage: Well drained flat. Geomorphology: Bassendean sands.	Vegetation: Banksia attenuata, B. ilicifolia Low Forest A over Melaleuca thymoides, Kunzea ericifolia Scrub over Patersonia occidentalis, Dasypogon bromiliifolius Herbs over Lepidosperma angustatum Very Open Low Sedges.			GPS	1	27/11/1992
33827	6836445	20462	<i>Jacksonia gracillima</i>	3	Low spreading shrub to 30 cm x 120 cm. Standard yellow-orange with red band close to base and yellow eye; wings yellow-orange in distal half, red basally, keel red.	Coastal plain, low flat. Dry, but in area of high water table. Grey sand.	Open heath over dense herbs. Kunzea glabrescens, Melaleuca thymoides, Dasypogon bromeliifolius, Phlebocarya ciliata.	occasional.		GPS	1	12/11/2003
33828	7127499	20462	<i>Jacksonia gracillima</i>	3	Decumbent shrub - 20 cm high and 50 cm wide. Flowers standard orange-yellow; eye yellow with red halo; wings/keel red, in full flower.	Winter wet flats; brown clay.	Melaleuca uncinata tall shrubland over low shrubland of Calothamnus, Verticordia spp over sedges.			UNK	2	5/11/2004

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
33838	9076557	20462	Jacksonia gracillima	3	Spreading low shrub, 50 cm high.	Very gentle lower slope of dune on edge of broad swale. Grey sand. > 7 years since fire.	Corymbia calophylla and Eucalyptus marginata subsp. marginata open forest, over Allocasuarina fraseriana, Banksia ilicifolia, B. menziesii and B. attenuata scattered low trees to low woodland, over Xanthorrhoea preissii high open shrubland, over Daviesia	6 plants.		GPS	1	25/10/2010
33842	8415331	20462	Jacksonia gracillima	3	Decumbent perennial to 0.3 m high x 1.4 m diam.	Flat, well-drained but adjacent to winter-wet swamp; pale grey sand.	Banksia woodland.	infrequent.		GPS	1	14/11/2010
33989	6511570	4027	Jacksonia sericea	4	Prostrate shrub, buds and orange flowers.					TOPO	2	1/12/1995
34157	8873712	4035	Kennedia beckxiana	4	Vigorous climbing shrub with twining stems climbing up a Melaleuca preissiana tree to a height of about 4 m. Glabrous leaves divided into 3 leaflets. Inflorescence stalked with obvious amplexicaule bract. Showy orange-red flowers, most still in bud but s	Poorly drained flat at edge of lake. Black loamy sand. Litter cover 20%, depth <1 cm. Moss cover 50%. Bare ground cover 20%.	Melaleuca preissiana Low Woodland, over an Open Tall Shrubland of Acacia longifolia and Kunzea glabrescens, over an Open Shrubland of Solanum nigrum, Climbers of Kennedia beckxiana and Fumaria sp., a Fernland of Pteridium esculentum, an Open Grassland of	Two plants present.	Plant is to be removed as it is invading native bushland where it is not a local native.	GPS	1	19/08/2016
34386	296015	30334	Lachnagrostis nesomytica subsp. paralia	1	Small upright grass 30 cm high.		Callitris forest.			AUTO	3	20/10/1978
34387	6706711	30334	Lachnagrostis nesomytica subsp. paralia	1	Annual grass, 50 mm high x 150 mm wide.	Disturbed soil. Plain. Reserve. Dry grey/brown sand. Dune beside sea.	Medium trees. With scattered Melaleuca lanceolata, Parapholis incurva, Trachyandra divaricata, Geranium molle, Cotula and Euphorbia spp., and grasses.	2-5 plants.		GPS	1	11/11/2003

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
34388	6706738	30334	Lachnagrostis nesomytica subsp. paralia	1	Grass, 0.15 m high x 0.03 m wide.	Reserve. Dune swale. Dry white soil.	With Nicotiana glauca, Callitris preissii and Solanum symonii.	over 50 plants in 11-100 sq m.		GPS	1	23/11/2002
35525	2159341	3043	Lepidium puberulum	4			Burnt area, regenerating. Melaleuca/Acacia communities.			AUTO	3	17/09/1991
35543	6750400	3043	Lepidium puberulum	4	Annual herb 0.2 m high x 0.1 m wide.	Dune. Recent soil disturbance. Dry, white sand.	Medium trees, Melaleuca lanceolata, Trachyandra, Acanthocarpus.	21-50 plants.		GPS	1	13/10/2002
35544	6756751	3043	Lepidium puberulum	4	Erect herb. Height: 150 mm and width: 100 mm. Flower colour: green.	Topography: lawn on sand bench. Collection site: enclosure. Soil colour: brown. Soil: sand.	Associated vegetation: lawn like area with weeds. Characteristic species: Stenotaphrum, Euphorbia, Erodium, Anagallis, Hypochaeris, Trachymene.	2-5 plants.		GPS	1	24/08/2003
35545	7815603	3043	Lepidium puberulum	4	Erect annual herb. Flower greenish - white; in fruit and flower.	Mossy black sand.	Callitris preissii low woodland.	locally very common.	GARD Q3.	GPS	1	17/10/2006
35546	7810717	3043	Lepidium puberulum	4	Delicate herb to <0.05 m; clusters of tiny flowers.	Site slopes gently to the W; dark brown sand; well drained.	Heath A/B of Acacia rostellifera and Leucopogon australis over Low Heath C/D of Acanthocarpus preissii and Eremophila glabra; Very Open Herbs of Zantedeschia aethiopica, Trachymene coerulea; Very Open Low Sedges of Carex preissii.	Vegetatio n noted as being in excellent condition with some mature Acacia deaths.		GPS	1	2/10/2007
38799	282235	33742	Microtis quadrata	4		In black peaty soil.	Under paperbarks.			AUTO	3	11/11/1960
39142	3461688	6722	Myosotis australis	4	Flowers white.					AUTO	3	/10/1901
39143	4400267	6722	Myosotis australis	4	Erect annual herb 20 cm. Flowers white.					AUTO	2	20/10/1978

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
39147	8775249	6722	Myosotis australis	4	Leafy annual herb 10 - 30 cm, with small white flowers.	On narrow flat between coastal vegetated, stabilised dunes and limestone breakaway.	Associated vegetation: coastal woodland of tall Melaleuca lanceolata trees over mid-dense layer of Eremophila glabra, Acanthocarpus preissii and Trachyandra divaricata, over dense ground layer of Galium sp., small grasses and mosses.	few - several plants.	Heavily grazed by wallabies and being displaced by Trachyandra divaricata.	GPS	1	16/09/2016
40843	1084135	11557	Phlebocarya pilosissima subsp. pilosissima	3		Sand ridge.	In Banksia woodland.			MAN	2	23/05/1978
41077	3409112	5237	Pimelea calcicola	3	Low spreading shrub 20-30 cm high. Flowers pale pink.	Low rises. Grey sand, calcareous/limestone.	Low heath.		Abundance: very common.	AUTO	3	13/11/1983
41092	5592224	5237	Pimelea calcicola	3	Erect, perennial, dwarf shrub.	Brown sand and protruding limestone.	Melaleuca/Acacia rostellifera patches. Associated vegetation: Dryandra sessilis, Phyllanthus calycinus, Hibbertia hypericoides, Ehrharta calycina.			MAN	0	10/11/1997
41096	9172173	5237	Pimelea calcicola	3	Erect, compact, perennial shrub, 80 cm high x 80 cm wide. Flowers white.	Plain. Reserve. Dry, white sand.	Tall shrubland with Acacia rostellifera.	2-5 plants.	Population structure: 100% flowering.	GPS	1	20/10/2014
44887	3464008	20348	Sphaerolobium calcicola	3	Erect multi-stemmed shrub 20-30 cm tall. In full flower. Flowers yellow-red.	Tall dunes, grey-white sand over white sand.	Low open heath of Jacksonia/Olearia axillaris and Acacia lasiocarpa.	rare in area.		MAN	0	23/10/1993
45997	7746865	17850	Stylidium ireneae	4						UNK	3	2/12/2004
46152	3172805	7756	Stylidium longitubum	4	Ephemeral herb, flowers pink.					AUTO	3	22/11/1973
46340	2857685	25800	Stylidium paludicola	3	0.5 m tall, flowers pink.	Near edge of swamp.	Amongst Juncus.			MAN	0	4/12/1974



FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
46346	7332416	25800	Stylidium paludicola	3	Small herb to 400 mm high. Just finished flowering.	Gentle slope with a south east aspect. Surface soil is a very dark brown sandy loam and the subsurface soil is a very dark brown sandy loam/loam. Wetland - winter wet. Litter cover 90% with 10% bare ground.	Melaleuca preissiana woodland over Astartea scoparia open heath over Lepidosperma longitudinale open sedgeland.	occasional.		GPS	1	7/12/2005
46347	7279906	25800	Stylidium paludicola	3	Herb to 0.4 m high. Flowers pink/red.	Gentle slope, south aspect, surface soil is dark grey loamy sand and sub surface soil is very dark grey brown sandy loam, drainage is poor and wet during winter and spring only.	Melaleuca preissiana, Kunzea glabrescens low open forest over Astartea scoparia, Hypocalymma angustifolium open shrubland over Lepidosperma longitudinale open sedgeland. Vegetation is in a pristine to excellent condition with some rabbit diggings and pot	scattered.		GPS	1	22/11/2005
46348	6239404	25800	Stylidium paludicola	3		In swampy area.				MAN	3	/11/1965
47189	6443044	48297	Styphelia filifolia	3	Erect shrub to 60 cm high and 60 cm wide. Flowers white, strictly pendulous.	Sandy rise. Dry littered. Grey sand.	Banksia woodland. B. attenuata, B. menziesii, Allocasuarina humilis, Stirlingia latifolia.	scattered.		GPS	2	21/04/2002
48263	4622316	28354	Synaphea sp. Serpentine (G.R. Brand 103)	T	Low shrub 20 cm high x 50 cm wide, flowers yellow.	Pinjarra Plain, sumpland. Red brown loam.	Marri Woodland with Eucalyptus calophylla, Phyllanthus calycinus, Mesomelaena tetragona.			MAN	0	15/08/1991

FID	Sheet	NameID	Taxon	Cons_Cod e	Plant_Desc	Site	Vegetation	Frequency	Notes	Geo_Met hod	Precision	Date
48971	9076492	35581	Tetraria sp. Chandala (G.J. Keighery 17055)	2	Erect sedge, 70 cm high.	Dampland on edge of open water, wetland on plain. Black peat. > 10 years since fire.	Eucalyptus rudis subsp. rudis open forest, over Melaleuca preissiana and M. rhopiophylla open woodland, over Taxandria linearifolia scattered tall shrubs, over Cyathochaeta teretifolia high closed sedgeland with Pteridium esculentum high fernland. Assoc		Excellent vegetatio n condition (low weed cover), though disturban ce nearby (transmiss ion lines).	GPS	1	2/11/2010
49482	279188	1717	Thelymitra variegata	2		In yellow sand.	With Banksia attenuata, Casuarina fraseri, Hibbertia hypericoides, etc.			AUTO	3	16/08/1959
51095	2521296	44444	Tripterococcus sp. Brachylobus (A.S. George 14234)	4	Slender erect multi-stemmed shrub to 40 cm. Flowers orange-yellow, in full flower.	Winter wet flats, peaty sand over clay.	Hypocalymma angustifolium low heath.	scattered groups of 5-15 plants.		MAN	3	21/02/1992
52364	1057251	14714	Verticordia lindleyi subsp. lindleyi	4	Compact erect shrub, 36 cm high, flowers pink.	Dry summer swamp. Sandy white clay soil.	Heath type.			MAN	3	23/03/1981

FID	Popld	Nameid	Taxon	ConsStatus	WArank	PopNumbr	SubPopCode	PopStatus	District	Vesting	Purpose1	CountDate	Method	MatCount	JuvCount	SeedCount	LiveTotal	CountType	AreaOccupancy	InFlower	PopCondit	HabCondit	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
907	92883	14932	Acacia lasiocarpa var. bracteolata long peduncle variant (G.J. Keighery 5026)	1		1			SWAN COASTAL	LGA		5/08/1982 0:00		0		0								MOIST				CLAY_SND		
2452	84412	141	Aponogeton hexatepalus	4		7			SWAN COASTAL	UNKNOWN		10/08/1992 0:00	ESTMT	150		150				Y				OD_SWAMP			LOAM	RED	PERMUN	
2490	84399	141	Aponogeton hexatepalus	4		22			SWAN COASTAL	NON	UCL	16/09/1993 0:00	ESTMT	0		100				N										
2496	84405	141	Aponogeton hexatepalus	4		28			SWAN COASTAL	PRI		5/11/1997 0:00		0		0				N				OD_SWAMP			CLAY	GREY	SEASUN	
2688	95084	45402	Babingtonia urbana	3		2			SWAN COASTAL	LGA	VER	23/03/1981 0:00		0		0				N							SAND	WHITE		
4604	84970	1596	Caladenia huegelii	T	CR	9			SWAN COASTAL	RDL	UCL	1/10/2004 0:00		0		0				N			DRY	RI_DUNE			SAND	GREY		
4606	84932	1596	Caladenia huegelii	T	CR	12	X		SWAN COASTAL	PRI		15/10/1997 0:00	ACT_IND	0		0				N			DRY	FL_PLAIN			SAND	GREY		
4635	84944	1596	Caladenia huegelii	T	CR	41	X		SWAN COASTAL	MRD	VER	23/10/2006 0:00		0		0				N			DRY	FLAT			SAND	GREY		

FID	Popld	Nameid	Taxon	ConsStatus	WARK	PopNumbr	SubPopCode	PopStat	District	Vesting	Purpose1	CountDate	Method	MatCount	JuvCount	SeedCount	LiveTotal	CouType	AreaOccupy	InFlower	PopCondit	HabCondit	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
4636	97288	1596	Caladenia huegelii	T	CR	42	A		SWAN COASTAL	SPC	GVT	23/09/2011 0:00	ACT_IND	447			0	PLANTS	#### Y	HEALTHY	VRY_GOOD	Low open woodland over low open shrubland and herbland on lower slopes. Banksia Woodland. The overall condition of the vegetation due to drought conditions is declining. Recent fire (April 2011?) in NE edge of Lot 820, NW edge of Lot 4 (42F) & SE edge of	MOIST	SLOPE			SAND	WHITE	WLL_D RND	
4637	97289	1596	Caladenia huegelii	T	CR	42	B		SWAN COASTAL	PRI		2/10/2013 0:00	ACT_IND	15			0	PLANTS	262 Y	HEALTHY	GOOD	Vegetation away from the edges within the wider remnants were in Excellent condition; the more narrow remnants were Good to Completely Degraded. This site contains a high diversity of flora species.	MOIST	FL_PLAIN			SAND	GREY	WLL_D RND	
4638	97290	1596	Caladenia huegelii	T	CR	42	C		SWAN COASTAL	PRI		9/10/2004 0:00		5			5			Y		Low open woodland over low open shrubland and herbland on lower slopes. Banksia Woodland.		SLOPE			SAND	GREY		

FID	PopId	NameId	Taxon	ConsStatus	WARK	PopNum	SubPopCode	PopStatus	District	Vesting	Purpose1	CountDate	Method	MatCount	JuvCount	SeedCount	LiveTotal	CouType	AreaOccup	InFlower	PopCondit	HabCondit	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
4639	97291	1596	Caladenia huegelii	T	CR	42	D		SWAN COASTAL	LGA	VER	23/09/2011 0:00		0		0						DEGRADED	Low open woodland over low open shrubland and herbland on lower slopes. Banksia Woodland. Lowerslope to drainage line. Undulating topography. Habitat condition: Good to degraded. The road reserve is declining in condition due to the impacts of rubbish	MOIST	SLOPE			SAND	GREY	WLL_D RND
4640	106241	1596	Caladenia huegelii	T	CR	42	E		SWAN COASTAL	PRI		14/10/2005 0:00	ACT_IND	0		0				Y	MODERATE		Low open woodland over low open shrubland and herbland on lower slopes. Banksia Woodland.		SLOPE			SAND	GREY	
4641	106242	1596	Caladenia huegelii	T	CR	42	F		SWAN COASTAL	PRI		14/10/2005 0:00	ACT_IND	0		0				Y	MODERATE		Low open woodland over low open shrubland and herbland on lower slopes. Banksia Woodland.		SLOPE			SAND	GREY	
4660	97306	1596	Caladenia huegelii	T	CR	59	A		SWAN COASTAL	CC	CFF	21/09/2004 0:00		1		1							Banksia woodland.		FLAT			SAND	GREY	
4661	97307	1596	Caladenia huegelii	T	CR	59	B		SWAN COASTAL	CC	CFF	21/09/2004 0:00		1		1							Banksia woodland.	DRY	FLAT			SAND	GREY	
4662	97308	1596	Caladenia huegelii	T	CR	59	C		SWAN COASTAL	CC	CFF	4/10/2010 0:00	ACT_IND	0		0							Banksia woodland. *Erharta calycina at densities >70%.	DRY	SLOPE			SAND	WHITE	

FID	PopId	NameId	Taxon	ConsStatus	WARK	PopNumbr	SubPopCode	PopStat	District	Vesting	Purpose1	CountDate	Method	MatCount	JuvCount	SeedCount	LiveTotal	CountType	AreaOccup	InFlower	PopCondit	HabitCondit	HabitNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
4663	97309	1596	Caladenia huegelii	T	CR	59	D		SWAN COASTAL	CC	CFF	4/10/2011 0:00	ACT_IND	1		0		PLANTS	1	Y	HEALTHY	VRY_GOOD	Presence of perennial veldt grass (highly invasive weed species) is the factor downgrading condition from excellent to very good. Intact native species structure and diversity	DRY	SLOPE			SAND	GREY	WLL_D RND
4664	97310	1596	Caladenia huegelii	T	CR	59	E		SWAN COASTAL	CC	CFF	25/09/2012 0:00	ACT_IND	29		0		PLANTS	500	Y	HEALTHY	VRY_GOOD		DRY	SLOPE			SAND	GREY	WLL_D RND
4665	114909	1596	Caladenia huegelii	T	CR	59	F		SWAN COASTAL	RDL	PAR	25/09/2012 0:00	ACT_IND	8		0		PLANTS	475	Y	HEALTHY	EXCELLENT	Located in small patch of excellent bush adjacent to a more disturbed area		HILL			SAND	GREY	WLL_D RND
4666	97312	1596	Caladenia huegelii	T	CR	60	A		SWAN COASTAL	PRI		11/10/2005 0:00	ACT_IND	6		6				Y			Banksia Woodland		FLAT			SAND	GREY	
4667	97313	1596	Caladenia huegelii	T	CR	60	B		SWAN COASTAL	PRI		11/10/2005 0:00	ACT_IND	11		0				Y										
4668	97314	1596	Caladenia huegelii	T	CR	60	C		SWAN COASTAL	PRI		16/10/2005 0:00	ACT_IND	3		3				Y										
4669	106221	1596	Caladenia huegelii	T	CR	60	D		SWAN COASTAL	PRI		10/10/2005 0:00	ACT_IND	5		0				Y										
4670	84954	1596	Caladenia huegelii	T	CR	61			SWAN COASTAL	PRI		5/10/2005 0:00		1		1				Y			Banksia wookland, understorey of a variety of grasses of Hibbertia.		FLAT			SAND	GREY	

FID	Popld	Nameid	Taxon	ConsStatus	WARRank	PopNumbe	SubPopCode	PopStatus	District	Vesting	Purpose1	CountDate	Method	MatCount	JuvCount	SeedCount	LiveTotal	CountType	AreaOccup	InFlower	PopCondit	HabCondit	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
4671	84955	1596	Caladenia huegelii	T	CR	62			SWAN COASTAL	LGA	REC	27/09/2013 0:00	ACT_IND	12		0	PLANTS	514	Y	HEALTHY	VRY_GOOD	Low Open Forest of Banksia attenuata, B. menziesii, B. ilicifolia, Allocasuarina fraseriana and Nuytsia floribunda over Tall Shrubland of Adenanthos cygnorum and Kunzea glabrescens over Open Low Heath of Xanthorrhoea preissii, Melaleuca thymoides, Calytri	MOIST	FLAT			SAND	GREY	WLL_D RND	
4676	84960	1596	Caladenia huegelii	T	CR	67			SWAN COASTAL	NON	GVT	10/10/2011 0:00	ACT_IND	13		0	PLANTS	2890	Y	HEALTHY	EXCELNT		MOIST	FLAT			SAND	GREY	WLL_D RND	
4682	84964	1596	Caladenia huegelii	T	CR	72			SWAN COASTAL	PRI		19/09/2007 0:00	ACT_IND	1		1				Y			DRY	FLAT			SAND			
4687	84968	1596	Caladenia huegelii	T	CR	76			SWAN COASTAL	PRI		1/10/2009 0:00	ACT_IND	1	0	1				Y			DRY				SAND	GREY		
4689	106981	1596	Caladenia huegelii	T	CR	78	A		SWAN COASTAL	PRI		25/09/2012 0:00	ACT_IND	1	1	0	PLANTS	1	Y	HEALTHY	GOOD	Tall Open Scrub of Kunzea glabrescens and Adenanthos cygnorum	DRY	SLOPE			SAND	GREY	WLL_D RND	
4690	107683	1596	Caladenia huegelii	T	CR	78	B		SWAN COASTAL	PRI		25/09/2013 0:00	ACT_IND	3		0	PLANTS		Y	HEALTHY										
4692	110509	1596	Caladenia huegelii	T	CR	80			SWAN COASTAL	PRI		20/10/2011 0:00	ACT_IND	4		0	PLANTS	370	Y	HEALTHY	EXCELNT		MOIST	FLAT			SAND	GREY	WLL_D RND	
6309	93196	16245	Cyathochaeta teretifolia	3		12			SWAN COASTAL	PRI		24/10/2007 0:00		0		0				N		Woodland.	INUNDATED	OD_SWAMP			PEAT	BLACK		
6322	93210	16245	Cyathochaeta teretifolia	3		25			SWAN COASTAL	PRI		2/12/2005 0:00		0		0				N				SLOPE			LOAM_SND	BROWN	SEASIN UN	
7198	101444	12938	Diuris micrantha	T	VU	1	A		SWAN COASTAL	NON	UCL	20/09/2010 0:00	ACT_IND	6		0	PLANTS	3.75	Y	HEALTHY	VRY_GOOD	[soil type additional]: clay [additional veg class]: open scrub over dense low sedges	DRY	OD_SWAMP			PEAT	BLACK		

FID	Popld	Nameid	Taxon	ConsStatus	WAnk	PopNumbr	SubPopCode	PopStatus	District	Vesting	Purpose1	CountDate	Method	MatCount	JuvCount	SeedCount	LiveTotal	CountType	AreaOccup	InFlower	PopCondit	HabCondit	HabNotes	SoilCondit	Landform	RockType	Gravel	SoilType	SoilColor	Drainage
7199	101445	12938	Diuris micrantha	T	VU	1	B		SWAN COASTAL	NON	UCL	24/09/2002 0:00		0		0														
7220	85052	1637	Diuris purdiei	T	EN	5			SWAN COASTAL	PRI		14/01/2004 0:00		0		0								MOIST	OD_S WAMP			CLAY	GREY	
7252	99183	4763	Dodonaea hackettiana			4	A		SWAN COASTAL	PRI		15/10/1980 0:00		0		0														
7253	99184	4763	Dodonaea hackettiana			4	B		SWAN COASTAL	LGA	VER	15/10/1980 0:00		0		0														
7254	99185	4763	Dodonaea hackettiana			4	C		SWAN COASTAL	NON	OTH	15/10/1980 0:00		0		0														
7255	99186	4763	Dodonaea hackettiana			4	D		SWAN COASTAL	NON	OTH	15/10/1980 0:00		0		0														
7256	99187	4763	Dodonaea hackettiana			4	E		SWAN COASTAL	CC	NRE	15/10/1980 0:00		0		0														
7257	99189	4763	Dodonaea hackettiana			4	5	A	SWAN COASTAL	LGA	VER	15/10/1980 0:00	ACT_IND	27			27						Sand with outcropping limestone.		OUTCR OP	LIMEST N		SAND		
7258	99190	4763	Dodonaea hackettiana			4	5	B	SWAN COASTAL	CC	CFF	15/10/1980 0:00	ACT_IND	13			13													
7259	99191	4763	Dodonaea hackettiana			4	5	C	SWAN COASTAL	LGA	NRE	15/10/1980 0:00		0		0														
7260	99192	4763	Dodonaea hackettiana			4	5	D	SWAN COASTAL	CC	CFF	15/10/1980 0:00	ESTMT	700			1750													
7261	99193	4763	Dodonaea hackettiana			4	5	E	SWAN COASTAL	CC	CFF	15/10/1980 0:00	ESTMT	15			23													
7262	99194	4763	Dodonaea hackettiana			4	5	F	SWAN COASTAL	PRI		15/10/1980 0:00		0		0														
7263	87266	4763	Dodonaea hackettiana			4	6		SWAN COASTAL	PRI		11/11/1981 0:00		0		0									SLOPE	LIMEST N		SAND		
7277	87256	4763	Dodonaea hackettiana			4	15		SWAN COASTAL	PRI		5/01/1987 0:00	ESTMT	3			3								FLAT			SAND		
7278	87257	4763	Dodonaea hackettiana			4	16		SWAN COASTAL	LGA	REC	15/06/1987 0:00		0		0														
7283	87261	4763	Dodonaea hackettiana			4	20		SWAN COASTAL	PRI		28/10/2001 0:00		0		0										RI_DUNE		SAND	GREY	
7285	87263	4763	Dodonaea hackettiana			4	22		SWAN COASTAL	NON	UCL	16/10/2003 0:00	UNKNOWN	12			12			Y				DRY	CD_LK BED		SAND	GREY		
7286	87264	4763	Dodonaea hackettiana			4	23		SWAN COASTAL	PRI		1/12/2005 0:00	ESTMT	20			20					DomSp: Victorian Tea Tree		RIDGE	LIMEST N		SAND	BROWN		
7343	97391	1639	Drakaea elastica	T	CR	2	A	X	SWAN COASTAL	PRI		28/07/2005 0:00		0		0						Kunzea ericifolia scrub	DRY	FLAT			SAND	WHITE		
7344	97392	1639	Drakaea elastica	T	CR	2	B	X	SWAN COASTAL	PRI		28/07/2005 0:00		0		0						Kunzea ericifolia scrub		FL_PLAIN			SAND	GREY		
7345	97393	1639	Drakaea elastica	T	CR	2	C	X	SWAN COASTAL	PRI		28/07/2005 0:00		0		0						Kunzea ericifolia scrub		FL_PLAIN			SAND	GREY		
7351	85084	1639	Drakaea elastica	T	CR	7			SWAN COASTAL	PRI		28/07/2005 0:00	ESTMT	0		0									FLAT		SAND	GREY		





# **APPENDIX 2**

## **Naturemap Report**

# NatureMap Species Report

Created By Guest user on 18/11/2020

**Current Names Only** Yes  
**Core Datasets Only** Yes  
**Method** 'By Circle'  
**Centre** 115° 48' 05" E, 32° 13' 19" S  
**Buffer** 10km  
**Group By** Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	1316	21773
Other specially protected fauna	2	14
Priority 1	3	3
Priority 2	1	1
Priority 3	13	195
Priority 4	17	328
Protected under international agreement	21	328
Rare or likely to become extinct	18	547
<b>TOTAL</b>	<b>1391</b>	<b>23189</b>

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
<b>Rare or likely to become extinct</b>				
1.	1596 <i>Caladenia huegelii</i> (Grand Spider Orchid)		T	
2.	24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)		T	
3.	24790 <i>Calidris tenuirostris</i> (Great Knot)		T	
4.	24731 <i>Calyptorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black Cockatoo)		T	
5.	24733 <i>Calyptorhynchus baudinii</i> (Baudin's Cockatoo, White-tailed Long-billed Black Cockatoo)		T	
6.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo, White-tailed Short-billed Black Cockatoo)		T	
7.	48400 <i>Calyptorhynchus</i> sp. (white-tailed black cockatoo)		T	
8.	25335 <i>Caretta caretta</i> (Loggerhead Turtle)		T	
9.	25336 <i>Chelonia mydas</i> (Green Turtle)		T	
10.	24092 <i>Dasyurus geoffroi</i> (Chuditch, Western Quoll)		T	
11.	25346 <i>Dermochelys coriacea</i> (Leatherback Turtle)		T	
12.	10796 <i>Diuris drummondii</i> (Tall Donkey Orchid)		T	
13.	12938 <i>Diuris micrantha</i>		T	
14.	1639 <i>Drakaea elastica</i> (Glossy-leaved Hammer Orchid)		T	
15.	24043 <i>Eubalaena australis</i> (Southern Right Whale)		T	
16.	24146 <i>Myrmecobius fasciatus</i> (Numbat, Walpurti)		T	
17.	24798 <i>Numenius madagascariensis</i> (Eastern Curlew)		T	
18.	34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)		T	
<b>Protected under international agreement</b>				
19.	41323 <i>Actitis hypoleucos</i> (Common Sandpiper)		IA	
20.	25554 <i>Apus pacificus</i> (Fork-tailed Swift, Pacific Swift)		IA	
21.	25736 <i>Arenaria interpres</i> (Ruddy Turnstone)		IA	
22.	24779 <i>Calidris acuminata</i> (Sharp-tailed Sandpiper)		IA	
23.	24786 <i>Calidris melanotos</i> (Pectoral Sandpiper)		IA	
24.	24788 <i>Calidris ruficollis</i> (Red-necked Stint)		IA	
25.	24789 <i>Calidris subminuta</i> (Long-toed Stint)		IA	
26.	41332 <i>Chlidonias leucopterus</i> (White-winged Black Tern, white-winged tern)		IA	
27.	48587 <i>Hydroprogne caspia</i> (Caspian Tern)		IA	
28.	25741 <i>Limosa limosa</i> (Black-tailed Godwit)		IA	
29.	24690 <i>Macronectes giganteus</i> (Southern Giant Petrel)		IA	
30.	41347 <i>Onychoprion anaethetus</i> (Bridled Tern)		IA	
31.	48591 <i>Pandion cristatus</i> (Osprey, Eastern Osprey)		IA	
32.	24843 <i>Plegadis falcinellus</i> (Glossy Ibis)		IA	
33.	24383 <i>Pluvialis squatarola</i> (Grey Plover)		IA	
34.	25640 <i>Sterna dougallii</i> (Roseate Tern)		IA	
35.	48597 <i>Thalasseus bergii</i> (Crested Tern)		IA	
36.	24806 <i>Tringa glareola</i> (Wood Sandpiper)		IA	

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
37.	24808 <i>Tringa nebularia</i> (Common Greenshank, greenshank)		IA	
38.	24809 <i>Tringa stagnatilis</i> (Marsh Sandpiper, little greenshank)		IA	
39.	41351 <i>Xenus cinereus</i> (Terek Sandpiper)		IA	
<b>Other specially protected fauna</b>				
40.	25624 <i>Falco peregrinus</i> (Peregrine Falcon)		S	
41.	48070 <i>Phascogale tapoatafa</i> subsp. <i>wambenger</i> (South-western Brush-tailed Phascogale, Wambenger)		S	
<b>Priority 1</b>				
42.	48762 <i>Acacia</i> sp. <i>Binningup</i> (G. Cockerton et al. WB 37784)		P1	
43.	16633 <i>Boronia juncea</i> subsp. <i>juncea</i>		P1	
44.	30334 <i>Lachnagrostis nesomytica</i> subsp. <i>paralia</i>		P1	
<b>Priority 2</b>				
45.	35581 <i>Tetraria</i> sp. <i>Chandala</i> (G.J. Keighery 17055)		P2	
<b>Priority 3</b>				
46.	48332 <i>Amanita preissii</i> (Cinnamon-ring Lepidella)		P3	
47.	35317 <i>Austrostipa mundula</i>		P3	
48.	16245 <i>Cyathochaeta teretifolia</i>		P3	
49.	11461 <i>Hibbertia spicata</i> subsp. <i>leptotheca</i>		P3	
50.	48935 <i>Idiosoma sigillatum</i> (Swan Coastal Plain shield-backed trapdoor spider)		P3	
51.	20462 <i>Jacksonia gracillima</i>		P3	
52.	25147 <i>Lerista lineata</i> (Perth Slider, Lined Skink)		P3	
53.	25249 <i>Neelaps calonotos</i> (Black-striped Snake, black-striped burrowing snake)		P3	
54.	5237 <i>Pimelea calcicola</i>		P3	
55.	8163 <i>Pithocarpa corymbulosa</i> (Corymbose Pithocarpa)		P3	
56.	25006 <i>Pletholax gracilis</i> subsp. <i>edelensis</i> (Keellegless Lizard (Shark Bay))		P3	
57.	25800 <i>Stylidium paludicola</i>		P3	
58.	24855 <i>Tyto novaehollandiae</i> subsp. <i>novaehollandiae</i> (Masked Owl (southwest))		P3	
<b>Priority 4</b>				
59.	141 <i>Aponogeton hexatepalus</i> (Stalked Water Ribbons)		P4	
60.	4763 <i>Dodonaea hackettiana</i> (Hackett's Hopbush)		P4	
61.	24189 <i>Falsistrellus mackenziei</i> (Western False Pipistrelle, Western Falsistrelle)		P4	
62.	24215 <i>Hydromys chrysogaster</i> (Water-rat, Rakali)		P4	
63.	48588 <i>Isoodon fusciventer</i> (Quenda, southwestern brown bandicoot)		P4	
64.	47975 <i>Ixobrychus dubius</i> (Australian Little Bittern)		P4	
65.	4027 <i>Jacksonia sericea</i> (Waldjumi)		P4	
66.	48024 <i>Notamacropus eugenii</i> subsp. <i>derbianus</i> (Tammar Wallaby, Tammar)		P4	
67.	48022 <i>Notamacropus irma</i> (Western Brush Wallaby)		P4	
68.	25196 <i>Notoscincus butleri</i> (lined soil-crevice skink (Dampier))		P4	
69.	24328 <i>Oxyura australis</i> (Blue-billed Duck)		P4	
70.	24663 <i>Phaethon rubricauda</i> (Red-tailed Tropicbird)		P4	
71.	17850 <i>Stylidium ireneae</i>		P4	
72.	7756 <i>Stylidium longitubum</i> (Jumping Jacks)		P4	
73.	7803 <i>Stylidium striatum</i> (Fan-leaved Triggerplant)		P4	
74.	33992 <i>Synemon gratioiosa</i> (Graceful Sunmoth)		P4	
75.	48135 <i>Thinornis rubricollis</i> (Hooded Plover, Hooded Dotterel)		P4	
<b>Non-conservation taxon</b>				
76.	? ?			
77.	? <i>Anigozanthos humilis</i>			
78.	? <i>Amocrinum preissii</i>			
79.	? <i>Austrostipa compressa</i>			
80.	? <i>Austrostipa semibarbata</i>			Y
81.	? <i>Burchardia congesta</i>			
82.	? <i>Hovea pungens</i>			Y
83.	? <i>Hovea trisperma</i> var. <i>trisperma</i>			
84.	? <i>Hybanthus calycinus</i>			Y
85.	? <i>Hypolaena exsulca</i>			Y
86.	? <i>Kunzea glabrescens</i>			
87.	? <i>Lepidosperma squamatum</i> s.l.			
88.	? <i>Lomandra caespitosa</i>			
89.	? <i>Lotus subbiflorus</i>			
90.	? <i>Lysimachia arvensis</i>			
91.	? <i>Mesomelaena pseudostygia</i>			Y
92.	? <i>Microlaena stipoides</i>			
93.	? <i>Persoonia saccata</i>			Y
94.	? <i>Phlebocarya ciliata</i>			
95.	? <i>Phyllanthus calycinus</i>			Y
96.	? <i>Pterostylis sanguinea</i>			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
97.	? <i>Rytidosperma occidentalis</i>			
98.	? <i>Sowerbaea laxiflora</i>			
99.	? <i>Vicia sativa</i>			Y
100.	15466 <i>Acacia applanata</i>			
101.	3262 <i>Acacia cochlearis</i> (Rigid Wattle)			
102.	3282 <i>Acacia cyclops</i> (Coastal Wattle)			
103.	3374 <i>Acacia huegelii</i>			
104.	3409 <i>Acacia lasiocarpa</i> (Panjang)			
105.	11611 <i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>			
106.	3502 <i>Acacia pulchella</i> (Prickly Moses)			
107.	15481 <i>Acacia pulchella</i> var. <i>glaberrima</i>			
108.	15482 <i>Acacia pulchella</i> var. <i>goadbyi</i>			
109.	3525 <i>Acacia rostellifera</i> (Summer-scented Wattle)			
110.	3527 <i>Acacia saligna</i> (Orange Wattle, Kudjong)			
111.	30032 <i>Acacia saligna</i> subsp. <i>saligna</i>			
112.	3557 <i>Acacia stenoptera</i> (Narrow Winged Wattle)			
113.	3584 <i>Acacia truncata</i>			
114.	3602 <i>Acacia willdenowiana</i> (Grass Wattle)			
115.	<i>Acanthaluteres brownii</i>			
116.	<i>Acanthaluteres</i> sp.			Y
117.	<i>Acanthaluteres spilomelanurus</i>			
118.	<i>Acanthistius serratus</i>			
119.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
120.	24261 <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
121.	24262 <i>Acanthiza inornata</i> (Western Thornbill)			
122.	1208 <i>Acanthocarpus preissii</i>			
123.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
124.	25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
125.	24281 <i>Accipiter cirrocephalus</i> subsp. <i>cirrocephalus</i> (Collared Sparrowhawk)			
126.	25536 <i>Accipiter fasciatus</i> (Brown Goshawk)			
127.	24282 <i>Accipiter fasciatus</i> subsp. <i>fasciatus</i> (Brown Goshawk)			
128.	<i>Acentrogobius pflaumi</i>			Y
129.	48409 <i>Acetabularia caliculus</i>			
130.	42368 <i>Acritoscincus trilineatus</i> (Western Three-lined Skink)			
131.	25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)			
132.	6203 <i>Actinotus glomeratus</i>			
133.	1775 <i>Adenanthos cygnorum</i> (Common Woollybush)			
134.	11837 <i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> (Common Woollybush)			
135.	1791 <i>Adenanthos obovatus</i> (Basket Flower)			
136.	4582 <i>Adriana quadripartita</i> (Bitter Bush)			
137.	<i>Afraflacilla huntorum</i>			Y
138.	<i>Afurcagobius suppositus</i>			
139.	1505 <i>Agave americana</i> (Century Plant)	Y		
140.	17202 <i>Agonis flexuosa</i> var. <i>flexuosa</i>			
141.	184 <i>Aira caryophyllea</i> (Silvery Hairgrass)	Y		
142.	<i>Aira caryophyllea/cupaniana</i> group			
143.	185 <i>Aira cupaniana</i> (Silvery Hairgrass)	Y		
144.	187 <i>Aira praecox</i> (Early Hairgrass)	Y		
145.	<i>Aleurina ferruginea</i>			
146.	1728 <i>Allocasuarina fraseriana</i> (Sheoak, Kondil)			
147.	1732 <i>Allocasuarina humilis</i> (Dwarf Sheoak)			
148.	<i>Allotrochosina karri</i>			
149.	<i>Ammotretis elongatus</i>			
150.	4585 <i>Amperea ericoides</i>			
151.	198 <i>Amphipogon laguroides</i>			
152.	20184 <i>Amphipogon laguroides</i> subsp. <i>laguroides</i>			
153.	200 <i>Amphipogon turbinatus</i>			
154.	<i>Aname mainae</i>			
155.	<i>Aname tepperi</i>			
156.	24310 <i>Anas castanea</i> (Chestnut Teal)			
157.	24312 <i>Anas gracilis</i> (Grey Teal)			
158.	24313 <i>Anas platyrhynchos</i> (Mallard)			
159.	24315 <i>Anas rhynchotis</i> (Australasian Shoveler)			
160.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
161.	7833 <i>Angianthus preissianus</i>			
162.	47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)			
163.	11434 <i>Anigozanthos humilis</i> subsp. <i>humilis</i>			
164.	1411 <i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw, Kurulbrang)			
165.	11261 <i>Anigozanthos manglesii</i> subsp. <i>manglesii</i>			
166.	44629 <i>Anilios australis</i>			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
167.	<i>Anoplocapros lenticularis</i>			
168.	<i>Anoplocapros robustus</i>			
169.	<i>Anotrichium crinitum</i>			
170.	<i>Anser anser</i>			
171.	6949 <i>Anthocercis littorea</i> (Yellow Tailflower)			
172.	24561 <i>Anthochaera carunculata</i> (Red Wattlebird)			
173.	24562 <i>Anthochaera lunulata</i> (Western Little Wattlebird)			
174.	26475 <i>Anthamion hanovioides</i>			
175.	3686 <i>Aotus cordifolia</i>			
176.	3688 <i>Aotus gracillima</i>			
177.	3692 <i>Aotus procumbens</i>			
178.	1117 <i>Aphelia cyperoides</i>			
179.	6210 <i>Apium annuum</i>			
180.	6211 <i>Apium prostratum</i> (Sea Celery)			
181.	12040 <i>Apium prostratum</i> subsp. <i>prostratum</i> var. <i>prostratum</i> (Sea Celery)			
182.	<i>Aplosporella yalgorensis</i>			
183.	<i>Apogon rueppellii</i>			
184.	<i>Apogon victoriae</i>			
185.	24991 <i>Aprasia repens</i> (Sand-plain Worm-lizard)			
186.	<i>Aptychotrema vincentiana</i>			
187.	24285 <i>Aquila audax</i> (Wedge-tailed Eagle)			
188.	<i>Aracana aurita</i>			
189.	<i>Arachnura higginsi</i>			
190.	<i>Araneus cyphoxis</i>			
191.	<i>Araneus senicaudatus</i>			
192.	7838 <i>Arctotheca calendula</i> (Cape Weed, African Marigold)	Y		
193.	38964 <i>Arcyria cinerea</i>			
194.	38967 <i>Arcyria incarnata</i>			
195.	38968 <i>Arcyria insignis</i>			
196.	25558 <i>Ardea ibis</i> (Cattle Egret)			
197.	41324 <i>Ardea modesta</i> (great egret, white egret)			
198.	24340 <i>Ardea novaehollandiae</i> (White-faced Heron)			
199.	24341 <i>Ardea pacifica</i> (White-necked Heron)			
200.	19883 <i>Arenaria leptoclados</i>	Y		
201.	17797 <i>Argemone ochroleuca</i> subsp. <i>ochroleuca</i>	Y		
202.	<i>Argiope protensa</i>			
203.	<i>Argiope trifasciata</i>			
204.	28293 <i>Argyranthemum frutescens</i> subsp. <i>foeniculaceum</i>	Y		
205.	1264 <i>Arnocrinum preissii</i>			
206.	25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)			
207.	24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)			
208.	<i>Artema atlanta</i>			
209.	<i>Arteria flavimana</i>			
210.	<i>Arteria linnaei</i>			
211.	<i>Artoropsis exposita</i>			
212.	226 <i>Arundo donax</i> (Giant Reed)	Y		
213.	8779 <i>Asparagus asparagoides</i> (Bridal Creeper)	Y		
214.	1364 <i>Asphodelus fistulosus</i> (Onion Weed)	Y		
215.	20350 <i>Astartea affinis</i> (West-coast Astartea)			
216.	20283 <i>Astartea scoparia</i> (Common Astartea)			
217.	<i>Asteraceae</i> sp.			
218.	<i>Asterella drummondii</i>			
219.	7851 <i>Asteridea pulverulenta</i> (Common Bristle Daisy)			
220.	<i>Asterorhombus</i> cf. <i>osculus</i>			Y
221.	6334 <i>Astroloma pallidum</i> (Kick Bush)			
222.	<i>Atherinosoma wallacei</i>			
223.	2452 <i>Atriplex cinerea</i> (Grey Saltbush)			
224.	2471 <i>Atriplex prostrata</i> (Hastate Orache)	Y		
225.	<i>Austracantha minax</i>			
226.	<i>Austrogautieria manjimupana</i>			
227.	47713 <i>Austronomus australis</i> (White-striped Free-tailed Bat)			
228.	<i>Austrostipa</i> ? <i>semibarbata</i>			Y
229.	17234 <i>Austrostipa compressa</i>			
230.	17240 <i>Austrostipa flavescens</i>			
231.	17245 <i>Austrostipa mollis</i>			
232.	17253 <i>Austrostipa semibarbata</i>			
233.	<i>Austrostipa</i> sp.			
234.	37421 <i>Austrostipa</i> sp. <i>Marchagee</i> (B.R. Maslin 1407)			
235.	231 <i>Avellinia michelii</i>	Y		
236.	233 <i>Avena barbata</i> (Bearded Oat)	Y		

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
237.	234 <i>Avena fatua</i> (Wild Oat)	Y		
238.	235 <i>Avena sativa</i> (Common Oat)	Y		
239.	24318 <i>Aythya australis</i> (Hardhead)			
240.	18280 <i>Babiana nana</i>	Y		
241.	36441 <i>Babingtonia camphorosmae</i> (Camphor Myrtle)			
242.	<i>Backobourkia brounii</i>			
243.	38979 <i>Badhamia utricularis</i>			
244.	<i>Badumna insignis</i>			
245.	1800 <i>Banksia attenuata</i> (Slender Banksia, Piara)			
246.	32580 <i>Banksia dallanneyi</i> subsp. <i>dallanneyi</i> var. <i>dallanneyi</i>			
247.	1819 <i>Banksia grandis</i> (Bull Banksia, Pulgarla)			
248.	1822 <i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
249.	1830 <i>Banksia littoralis</i> (Swamp Banksia, Pungura)			
250.	1834 <i>Banksia menziesii</i> (Firewood Banksia)			
251.	32077 <i>Banksia sessilis</i> var. <i>cygnorum</i>			
252.	1852 <i>Banksia telmatiaea</i> (Swamp Fox Banksia)			
253.	<i>Barnardius zonarius</i>			
254.	740 <i>Baumea arthropophylla</i>			
255.	741 <i>Baumea articulata</i> (Jointed Rush)			
256.	743 <i>Baumea juncea</i> (Bare Twigrush)			
257.	748 <i>Baumea vaginalis</i> (Sheath Twigrush)			
258.	5382 <i>Beaufortia elegans</i> (Elegant Beaufortia)			
259.	7046 <i>Bellardia trixago</i> (Bellardia)	Y		
260.	48868 <i>Bellardia viscosa</i>	Y		
261.	<i>Bianor maculatus</i>			
262.	24319 <i>Biziura lobata</i> (Musk Duck)			
263.	749 <i>Bolboschoenus caldwellii</i> (Marsh Club-rush)			
264.	4413 <i>Boronia crenulata</i> (Aniseed Boronia)			
265.	11503 <i>Boronia crenulata</i> subsp. <i>crenulata</i> var. <i>crenulata</i>			
266.	16636 <i>Boronia crenulata</i> subsp. <i>viminea</i>			
267.	4417 <i>Boronia dichotoma</i>			
268.	11381 <i>Boronia ramosa</i> subsp. <i>anethifolia</i>			
269.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)			
270.	<i>Brachaluteres jacksonianus</i>			
271.	6341 <i>Brachyloma preissii</i> (Globe Heath)			
272.	8661 <i>Brachypodium distachyon</i> (False Brome)	Y		
273.	7878 <i>Brachyscome iberidifolia</i>			
274.	42381 <i>Brachyurophis semifasciatus</i> (Southern Shovel-nosed Snake)			
275.	3000 <i>Brassica tournefortii</i> (Mediterranean Turnip)	Y		
276.	2995 <i>Brassica x napus</i>	Y		
277.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
278.	245 <i>Briza minor</i> (Shivery Grass)	Y		
279.	<i>Briza</i> sp.			
280.	249 <i>Bromus diandrus</i> (Great Brome)	Y		
281.	250 <i>Bromus hordeaceus</i> (Soft Brome)	Y		
282.	252 <i>Bromus madritensis</i> (Madrid Brome)	Y		
283.	6537 <i>Buddleja madagascariensis</i>	Y		
284.	1366 <i>Bulbine semibarbata</i> (Leek Lily)			
285.	1383 <i>Burchardia bairdiae</i>			
286.	12770 <i>Burchardia congesta</i>			
287.	<i>Byssomerulius corium</i>			
288.	25713 <i>Cacatua galerita</i> (Sulphur-crested Cockatoo)			
289.	25714 <i>Cacatua pastinator</i> (Western Long-billed Corella)			
290.	25715 <i>Cacatua roseicapilla</i> (Galah)			
291.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
292.	24729 <i>Cacatua tenuirostris</i> (Eastern Long-billed Corella)	Y		
293.	25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
294.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
295.	1276 <i>Caesia micrantha</i> (Pale Grass Lily)			
296.	1277 <i>Caesia occidentalis</i>			
297.	3002 <i>Cakile maritima</i> (Sea Rocket)	Y		
298.	<i>Caladenia ?flava</i>			
299.	1586 <i>Caladenia discoidea</i> (Dancing Orchid)			
300.	1592 <i>Caladenia flava</i> (Cowslip Orchid)			
301.	15348 <i>Caladenia flava</i> subsp. <i>flava</i>			
302.	15352 <i>Caladenia georgei</i>			
303.	1599 <i>Caladenia latifolia</i> (Pink Fairy Orchid)			
304.	15361 <i>Caladenia longicauda</i> subsp. <i>calcigena</i>			
305.	17760 <i>Caladenia nobilis</i>			
306.	<i>Caladenia</i> sp.			

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307.	2846 <i>Calandrinia calyptata</i> (Pink Purslane)			
308.	2848 <i>Calandrinia corrigioloides</i> (Strap Purslane)			
309.	2854 <i>Calandrinia granulifera</i> (Pygmy Purslane)			
310.	2856 <i>Calandrinia liniflora</i> (Parakeelya)			
311.	19309 <i>Calectasia narragara</i>			
312.	34942 <i>Callitriche brutia</i> subsp. <i>brutia</i>	Y		
313.	96 <i>Callitriche preissii</i> (Rottnest Island Pine, Maro)			
314.	36600 <i>Callitriche pyramidalis</i> (Swamp Cypress)			
315.	<i>Calocera guepinoides</i>			
316.	5411 <i>Calothamnus hirsutus</i>			
317.	5415 <i>Calothamnus lateralis</i>			
318.	5426 <i>Calothamnus quadrifidus</i> (One-sided Bottlebrush, Kwowdjard)			
319.	35816 <i>Calothamnus quadrifidus</i> subsp. <i>quadrifidus</i>			
320.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
321.	5439 <i>Calytrix angulata</i> (Yellow Starflower)			
322.	5458 <i>Calytrix flavescens</i> (Summer Starflower)			
323.	5460 <i>Calytrix fraseri</i> (Pink Summer Calytrix)			
324.	5476 <i>Calytrix sapphirina</i>			
325.	<i>Campichthys galei</i>			
326.	2795 <i>Carpobrotus edulis</i> (Hottentot Fig)	Y		
327.	2798 <i>Carpobrotus virescens</i> (Coastal Pigface, Kolboko, Bain)			
328.	1162 <i>Cartonema phylloides</i>			
329.	2951 <i>Cassytha flava</i> (Dodder Laurel)			
330.	2952 <i>Cassytha glabella</i> (Tangled Dodder Laurel)			
331.	2954 <i>Cassytha micrantha</i>			
332.	2957 <i>Cassytha racemosa</i> (Dodder Laurel)			
333.	11242 <i>Cassytha racemosa</i> forma <i>pilosa</i>			
334.	11799 <i>Cassytha racemosa</i> forma <i>racemosa</i>			
335.	19842 <i>Casuarina equisetifolia</i>	Y		
336.	28247 <i>Casuarina equisetifolia</i> subsp. <i>equisetifolia</i>	Y		
337.	26556 <i>Caulerpa cactoides</i>			
338.	44539 <i>Caulerpa cylindracea</i>			
339.	46993 <i>Caulerpa taxifolia</i> var. <i>distichophylla</i>			
340.	26580 <i>Caulerpa triaria</i>			
341.	41563 <i>Cenchrus purpureus</i> (Elephant Grass)	Y		
342.	41568 <i>Cenchrus setaceus</i> (Fountain Grass)	Y		
343.	7916 <i>Centaurea melitensis</i> (Maltese Cockspur, Malta Thistle)	Y		
344.	6539 <i>Centaureum erythraea</i> (Common Centaury)	Y		
345.	6542 <i>Centaureum tenuiflorum</i>	Y		
346.	6214 <i>Centella asiatica</i>			
347.	1121 <i>Centrolepis aristata</i> (Pointed Centrolepis)			
348.	1125 <i>Centrolepis drummondiana</i>			
349.	1132 <i>Centrolepis mutica</i>			
350.	1134 <i>Centrolepis polygyna</i> (Wiry Centrolepis)			
351.	26596 <i>Ceramium macilentum</i>			
352.	2889 <i>Cerastium glomeratum</i> (Mouse Ear Chickweed)	Y		
353.	<i>Cercophonius sulcatus</i>			
354.	17685 <i>Chaetanthus aristatus</i>			
355.	24186 <i>Chalinolobus gouldii</i> (Gould's Wattle Bat)			
356.	24187 <i>Chalinolobus morio</i> (Chocolate Wattle Bat)			
357.	18156 <i>Chamaecytisus palmensis</i> (Tagasaste)	Y		
358.	1280 <i>Chamaescilla corymbosa</i> (Blue Squill)			
359.	11299 <i>Chamaescilla corymbosa</i> var. <i>corymbosa</i>			
360.	26616 <i>Champia affinis</i>			
361.	26621 <i>Champia zostericola</i>			
362.	24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)			
363.	1513 <i>Chasmanthe floribunda</i> (African Cornflag)	Y		
364.	<i>Chelidonichthys kumu</i>			
365.	<i>Chelmonops curiosus</i>			
366.	43380 <i>Chelodina colliei</i> (South-western Snake-necked Turtle)			
367.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
368.	47909 <i>Cheramoeca leucosterna</i> (White-backed Swallow)			
369.	33939 <i>Cherax cainii</i> (Marron)			
370.	<i>Cherax destructor</i>			
371.	<i>Cherax quinquecarinatus</i>			
372.	<i>Cherax</i> sp.			
373.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
374.	<i>Chroicocephalus novaehollandiae</i>			
375.	41787 <i>Chrysanthemoides moniifera</i> subsp. <i>rotundata</i>	Y		Y
376.	24431 <i>Chrysococcyx basalis</i> (Horsfield's Bronze Cuckoo)			



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377.	24288 <i>Circus approximans</i> (Swamp Harrier)			
378.	7937 <i>Cirsium vulgare</i> (Spear Thistle, Scotch Thistle)	Y		
379.	36316 <i>Cladophora herpestica</i>			
380.	26659 <i>Cladophora valonioides</i>			
381.	24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
382.	26662 <i>Cladostephus spongiosus</i>			
383.	38983 <i>Clastoderma debaryanum</i>			
384.	26665 <i>Claviconium ovatum</i>			
385.	<i>Cleidopus gloriamaris</i>			
386.	10804 <i>Clematis linearifolia</i>			
387.	<i>Clynotis albobarbatus</i>			
388.	<i>Clynotis severus</i>			
389.	26682 <i>Codium spinescens</i>			
390.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
391.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		
392.	38990 <i>Comatricha nigra</i>			
393.	4550 <i>Comesperma calymega</i> (Blue-spike Milkwort)			
394.	4552 <i>Comesperma confertum</i>			
395.	4555 <i>Comesperma integerrimum</i>			
396.	4564 <i>Comesperma virgatum</i> (Milkwort)			
397.	6217 <i>Conium maculatum</i> (Hemlock)	Y		
398.	15611 <i>Conospermum stoechadis</i> subsp. <i>stoechadis</i> (Common Smokebush)			
399.	1885 <i>Conospermum triplinervium</i> (Tree Smokebush)			
400.	6348 <i>Conostephium pendulum</i> (Pearl Flower)			
401.	6349 <i>Conostephium preissii</i>			
402.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
403.	11826 <i>Conostylis aculeata</i> subsp. <i>aculeata</i>			
404.	12109 <i>Conostylis aculeata</i> subsp. <i>preissii</i>			
405.	1427 <i>Conostylis candicans</i> (Grey Cottonhead)			
406.	11438 <i>Conostylis candicans</i> subsp. <i>candicans</i>			
407.	1436 <i>Conostylis juncea</i>			
408.	1454 <i>Conostylis setigera</i> (Bristly Cottonhead)			
409.	11597 <i>Conostylis setigera</i> subsp. <i>setigera</i>			
410.	1455 <i>Conostylis setosa</i> (White Cottonhead)			
411.	<i>Conyza ?bonariensis</i>			
412.	7939 <i>Conyza bonariensis</i> (Flaxleaf Fleabane)	Y		
413.	7941 <i>Conyza parva</i>	Y		
414.	<i>Conyza</i> sp.			
415.	20074 <i>Conyza sumatrensis</i>	Y		
416.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
417.	<i>Cormocephalus novaehollandiae</i>			
418.	48259 <i>Cortaderia selloana</i> subsp. <i>selloana</i>	Y		
419.	38776 <i>Cortinarius phalarus</i>			
420.	25592 <i>Corvus coronoides</i> (Australian Raven)			
421.	24417 <i>Corvus coronoides</i> subsp. <i>perplexus</i> (Australian Raven)			
422.	24419 <i>Corvus splendens</i> (House Crow)			
423.	17104 <i>Corymbia calophylla</i> (Marri)			
424.	1285 <i>Corynotheca micrantha</i> (Sand Lily)			
425.	11283 <i>Corynotheca micrantha</i> var. <i>micrantha</i>			
426.	<i>Coryphaena hippurus</i>			
427.	7945 <i>Cotula coronopifolia</i> (Waterbuttons)	Y		
428.	24671 <i>Coturnix pectoralis</i> (Stubble Quail)			
429.	25701 <i>Coturnix ypsilophora</i> (Brown Quail)			
430.	24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)			
431.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
432.	24422 <i>Cracticus tibicen</i> subsp. <i>dorsalis</i> (White-backed Magpie)			
433.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
434.	26704 <i>Craspedocarpus venosus</i>			
435.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			
436.	11563 <i>Crassula colorata</i> var. <i>colorata</i>			
437.	3139 <i>Crassula exserta</i>			
438.	3140 <i>Crassula glomerata</i>	Y		
439.	11345 <i>Crassula thunbergiana</i> subsp. <i>thunbergiana</i>	Y		
440.	25399 <i>Crinia glauerti</i> (Clicking Frog)			
441.	25400 <i>Crinia insignifera</i> (Squelching Froglet)			
442.	<i>Cristiceps aurantiacus</i>			
443.	<i>Cristiceps australis</i>			
444.	<i>Crustulina bicrucata</i>			
445.	4802 <i>Cryptandra mutila</i>			
446.	30893 <i>Cryptoblepharus buchananii</i>			

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447.	25020 <i>Cryptoblepharus plagiocephalus</i>			
448.	1627 <i>Cryptostylis ovata</i> (Slipper Orchid)			
449.	30899 <i>Ctenophorus adelaidensis</i> (Southern Heath Dragon, Western Heath Dragon)			
450.	25027 <i>Ctenotus australis</i>			
451.	25039 <i>Ctenotus fallens</i>			
452.	25040 <i>Ctenotus gemmula</i> (Jewelled South-west Ctenotus (Swan Coastal Plain subpop P3), skink)			
453.	6663 <i>Cuscuta epithymum</i> (Lesser Dodder, Greater Dodder)	Y		
454.	26714 <i>Cutleria multifida</i>			
455.	768 <i>Cyathochaeta avenacea</i>			
456.	<i>Cyclosa trilobata</i>			
457.	24322 <i>Cygnus atratus</i> (Black Swan)			
458.	19625 <i>Cymbalaria muralis</i> subsp. <i>muralis</i>	Y		
459.	<i>Cynoglossus broadhursti</i>			
460.	806 <i>Cyperus polystachyos</i> (Bunchy Sedge)			
461.	816 <i>Cyperus tenuiflorus</i> (Scaly Sedge)	Y		
462.	<i>Cyrtophora parnasia</i>			
463.	26729 <i>Cystophora subfarinata</i>			
464.	30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
465.	30902 <i>Dacelo novaeguineae</i> subsp. <i>novaeguineae</i> (Laughing Kookaburra)	Y		
466.	38781 <i>Dacryopinax spathularia</i>			
467.	<i>Dactylopus dactylopus</i>			
468.	7454 <i>Dampiera linearis</i> (Common Dampiera)			
469.	7462 <i>Dampiera pedunculata</i>			
470.	25673 <i>Daphoenositta chrysoptera</i> (Varied Sittella)			
471.	24687 <i>Daption capense</i> (Cape Petrel)			
472.	35618 <i>Darwinia</i> sp. <i>Karonie</i> (K. Newbey 8503)			
473.	26752 <i>Dasyclonium incisum</i>			
474.	1218 <i>Dasygogon bromeliifolius</i> (Pineapple Bush)			
475.	6218 <i>Daucus glochidiatus</i> (Australian Carrot)			
476.	3807 <i>Daviesia divaricata</i> (Marno)			
477.	18560 <i>Daviesia divaricata</i> subsp. <i>divaricata</i>			
478.	16585 <i>Daviesia nudiflora</i> subsp. <i>nudiflora</i>			
479.	3832 <i>Daviesia physodes</i>			
480.	3845 <i>Daviesia triflora</i>			
481.	<i>Decapterus muroadsi</i>			
482.	25766 <i>Delma fraseri</i> (Fraser's Legless Lizard)			
483.	24999 <i>Delma grayii</i>			
484.	25296 <i>Demansia psammophis</i> subsp. <i>reticulata</i> (Yellow-faced Whipsnake)			
485.	38785 <i>Descomyces angustisporus</i>			
486.	17691 <i>Desmocladius fasciculatus</i>			
487.	16595 <i>Desmocladius flexuosus</i>			
488.	299 <i>Deyeuxia quadriseta</i> (Reed Bentgrass)			
489.	1259 <i>Dianella revoluta</i> (Blueberry Lily)			
490.	11636 <i>Dianella revoluta</i> var. <i>divaricata</i>			
491.	25607 <i>Dicaeum hirundinaceum</i> (Mistletoebird)			
492.	1287 <i>Dichopogon capillipes</i>			
493.	26758 <i>Dicranema revolutum</i>			
494.	26764 <i>Dictyopteris australis</i>			
495.	26776 <i>Dictyota dichotoma</i>			
496.	26778 <i>Dictyota furcellata</i>			
497.	39019 <i>Didymium clavus</i>			Y
498.	17838 <i>Dielsia stenostachya</i>			
499.	314 <i>Digitaria didactyla</i> (Queensland Blue Couch)	Y		
500.	<i>Dingosa serrata</i>			
501.	4454 <i>Diplolaena dampieri</i> (Southern Diplolaena)			
502.	9027 <i>Diplolaena drummondii</i>			
503.	3011 <i>Diplotaxis muralis</i> (Wall Rocket)	Y		
504.	19649 <i>Disa bracteata</i>	Y		
505.	7054 <i>Dischisma arenarium</i>	Y		
506.	7055 <i>Dischisma capitatum</i> (Woolly-headed Dischisma)	Y		
507.	12943 <i>Diuris brumalis</i>			
508.	<i>Diuris corymbosa/magnifica</i>			
509.	1634 <i>Diuris laxiflora</i> (Bee Orchid)			
510.	12939 <i>Diuris magnifica</i>			
511.	3095 <i>Drosera erythrorhiza</i> (Red Ink Sundew)			
512.	48747 <i>Drosera geniculata</i>			
513.	3097 <i>Drosera gigantea</i> (Giant Sundew)			
514.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
515.	3106 <i>Drosera macrantha</i> (Bridal Rainbow)			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
516.	3109 <i>Drosera menziesii</i> (Pink Rainbow)			
517.	48710 <i>Drosera micrantha</i>			
518.	3118 <i>Drosera pallida</i> (Pale Rainbow)			
519.	29178 <i>Drosera porrecta</i>			
520.	3124 <i>Drosera pulchella</i> (Pretty Sundew)			
521.	<i>Drosera</i> sp. "climbing"			
522.	3131 <i>Drosera stolonifera</i> (Leafy Sundew)			
523.	3135 <i>Drosera zonaria</i> (Painted Sundew)			
524.	25100 <i>Egernia napoleonis</i>			
525.	<i>Egretta garzetta</i>			
526.	<i>Egretta novaehollandiae</i>			
527.	<i>Ehrharta ?longiflora</i>			Y
528.	11485 <i>Ehrharta brevifolia</i> var. <i>cuspidata</i>	Y		
529.	347 <i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
530.	349 <i>Ehrharta longiflora</i> (Annual Veldt Grass)	Y		
531.	<i>Ehrharta</i> sp.			
532.	<i>Elanus axillaris</i>			
533.	47937 <i>Elseyornis melanops</i> (Black-fronted Dotterel)			
534.	1643 <i>Elythranthera brunonis</i> (Purple Enamel Orchid)			
535.	<i>Eolophus roseicapillus</i>			
536.	1645 <i>Epiblema grandiflorum</i> (Babe-in-a-cradle)			
537.	11756 <i>Epilobium billardioreanum</i> subsp. <i>cinereum</i> (Variable Willow Herb)			
538.	6132 <i>Epilobium ciliatum</i>	Y		
539.	6133 <i>Epilobium hirtigerum</i> (Hairy Willow Herb)			
540.	24567 <i>Epthianura albifrons</i> (White-fronted Chat)			
541.	374 <i>Eragrostis cilianensis</i> (Stinkgrass)	Y		
542.	376 <i>Eragrostis curvula</i> (African Lovegrass)	Y		
543.	379 <i>Eragrostis elongata</i> (Clustered Lovegrass)			
544.	<i>Eragrostis</i> sp. <i>indet.</i>			
545.	13949 <i>Eremaea asterocarpa</i>			
546.	13950 <i>Eremaea asterocarpa</i> subsp. <i>asterocarpa</i>			
547.	5541 <i>Eremaea pauciflora</i>			
548.	14104 <i>Eremaea pauciflora</i> var. <i>pauciflora</i>			
549.	7215 <i>Eremophila glabra</i> (Tar Bush)			
550.	17175 <i>Eremophila glabra</i> subsp. <i>albicans</i>			
551.	<i>Eriophora biapicata</i>			
552.	4333 <i>Erodium cicutarium</i> (Common Storksbill)	Y		
553.	15446 <i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>			
554.	24379 <i>Erythronyctes cinctus</i> (Red-kneed Dotterel)			
555.	<i>Eubalichthys mosaicus</i>			
556.	5615 <i>Eucalyptus decipiens</i> (Limestone Marlock, Moit)			
557.	5649 <i>Eucalyptus foecunda</i> (Narrow-leaved Red Mallee)			
558.	5659 <i>Eucalyptus gomphocephala</i> (Tuart, Duart)			
559.	5708 <i>Eucalyptus marginata</i> (Jarrah, Djara)			
560.	13547 <i>Eucalyptus marginata</i> subsp. <i>marginata</i> (Jarrah)			
561.	5763 <i>Eucalyptus rudis</i> (Flooded Gum, Kulurda)			
562.	13511 <i>Eucalyptus rudis</i> subsp. <i>rudis</i>			
563.	5790 <i>Eucalyptus todtiana</i> (Coastal Blackbutt)			
564.	3872 <i>Euchilopsis linearis</i> (Swamp Pea)			
565.	15137 <i>Euchiton sphaericus</i>			
566.	25746 <i>Eudyptula minor</i> (Little Penguin)			
567.	4627 <i>Euphorbia helioscopia</i> (Sun Spurge)	Y		
568.	20014 <i>Euphorbia hyssopifolia</i>	Y		
569.	29940 <i>Euphorbia maculata</i>	Y		
570.	4636 <i>Euphorbia paralias</i> (Sea Spurge)	Y		
571.	4638 <i>Euphorbia peplus</i> (Petty Spurge)	Y		
572.	34757 <i>Euphorbia prostrata</i>	Y		
573.	4648 <i>Euphorbia terracina</i> (Geraldton Carnation Weed)	Y		
574.	26830 <i>Euptilota articulata</i>			
575.	3880 <i>Eutaxia virgata</i>			
576.	835 <i>Evandra pauciflora</i>			
577.	25621 <i>Falco berigora</i> (Brown Falcon)			
578.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
579.	24472 <i>Falco cenchroides</i> subsp. <i>cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
580.	25623 <i>Falco longipennis</i> (Australian Hobby)			
581.	<i>Favonigobius lateralis</i>			
582.	24041 <i>Felis catus</i> (Cat)	Y		
583.	20216 <i>Ficinia nodosa</i> (Knotted Club Rush)			
584.	1747 <i>Ficus carica</i> (Common Fig)	Y		
585.	<i>Filicampus tigris</i>			

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586.	894 <i>Fimbristylis velata</i>			
587.	6221 <i>Foeniculum vulgare</i> (Fennel)	Y		
588.	<i>Fomitopsis lilacinogilva</i>			
589.	5209 <i>Frankenia pauciflora</i> (Seaheath)			
590.	25727 <i>Fulica atra</i> (Eurasian Coot)			
591.	24761 <i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)			
592.	8365 <i>Fumaria bastardii</i>	Y		
593.	2969 <i>Fumaria capreolata</i> (Whiteflower Fumitory)	Y		
594.	<i>Fumaria</i> sp.			
595.	907 <i>Gahnia trifida</i> (Coast Saw-sedge)			
596.	7976 <i>Galinsoga parviflora</i> (Potato Weed)	Y		
597.	17348 <i>Galium aparine</i> (Goosegrass)	Y		
598.	7323 <i>Galium murale</i> (Small Goosegrass)	Y		
599.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
600.	24763 <i>Gallinula tenebrosa</i> subsp. <i>tenebrosa</i> (Dusky Moorhen)			
601.	25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)			
602.	20247 <i>Gamochoaeta calviceps</i>	Y		
603.	20346 <i>Gamochoaeta coarctata</i>	Y		
604.	20475 <i>Gastrolobium capitatum</i>			
605.	20473 <i>Gastrolobium ebracteolatum</i>			
606.	20483 <i>Gastrolobium linearifolium</i>			
607.	20482 <i>Gastrolobium nervosum</i>			
608.	24959 <i>Gehyra variegata</i>			
609.	26850 <i>Gelinaria ulvoidea</i>			
610.	3936 <i>Genista linifolia</i> (Flaxleaf Broom)	Y		
611.	24401 <i>Geopelia cuneata</i> (Diamond Dove)			
612.	4339 <i>Geranium molle</i> (Dove's Foot Cranesbill)	Y		
613.	<i>Gerres subfasciatus</i>			
614.	25530 <i>Gerygone fusca</i> (Western Gerygone)			
615.	<i>Girella zebra</i>			
616.	1520 <i>Gladiolus caryophyllaceus</i> (Wild Gladiolus)	Y		
617.	26860 <i>Gloiocladia halymenioides</i>			
618.	26864 <i>Gloiosaccion brownii</i>			
619.	47962 <i>Glyciphila melanops</i> (Tawny-crowned Honeyeater)			
620.	6587 <i>Gomphocarpus fruticosus</i> (Narrowleaf Cottonbush)	Y		
621.	3945 <i>Gompholobium aristatum</i>			
622.	3957 <i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			
623.	6161 <i>Gonocarpus pthyoides</i>			
624.	7538 <i>Goodenia pulchella</i>			
625.	26868 <i>Gracilaria cliftonii</i>			
626.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
627.	37500 <i>Grammatotheca bergiana</i> var. <i>bergiana</i>	Y		
628.	14282 <i>Gratiola pubescens</i>			
629.	1982 <i>Grevillea crithmifolia</i>			
630.	15839 <i>Grevillea preissii</i> subsp. <i>preissii</i>			
631.	2119 <i>Grevillea vestita</i>			
632.	12824 <i>Grevillea vestita</i> subsp. <i>vestita</i>			
633.	26884 <i>Griffithsia ovalis</i>			
634.	26886 <i>Griffithsia teges</i>			
635.	<i>Gymnapistes marmoratus</i>			
636.	<i>Gymnopilus allantopus</i>			
637.	<i>Gymnopilus eucalyptorum</i>			Y
638.	<i>Gymnopilus purpuratus</i>			
639.	<i>Gymnothorax woodwardi</i>			
640.	2788 <i>Gyrostemon subnudus</i>			
641.	24487 <i>Haematopus longirostris</i> (Pied Oystercatcher)			
642.	<i>Haemodorum</i> sp.			
643.	1475 <i>Haemodorum spicatum</i> (Mardja)			
644.	2175 <i>Hakea lissocarpha</i> (Honey Bush)			
645.	2197 <i>Hakea prostrata</i> (Harsh Hakea)			
646.	2214 <i>Hakea trifurcata</i> (Two-leaf Hakea)			
647.	2216 <i>Hakea varia</i> (Variable-leaved Hakea)			
648.	<i>Halletta semifasciata</i>			
649.	24293 <i>Haliaeetus leucogaster</i> (White-bellied Sea-Eagle)			
650.	25541 <i>Haliastur indus</i> (Brahminy Kite)			
651.	24295 <i>Haliastur sphenurus</i> (Whistling Kite)			
652.	48568 <i>Halopeltis australis</i>			
653.	24296 <i>Hamirostra isura</i> (Square-tailed Kite)			
654.	3961 <i>Hardenbergia comptoniana</i> (Native Wisteria)			
655.	<i>Hasarius adansoni</i>			

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656.	25410 <i>Heleioporus eyrei</i> (Moaning Frog)			
657.	3016 <i>Heliophila pusilla</i>	Y		
658.	6710 <i>Heliotropium europaeum</i> (Common Heliotrope)	Y		
659.	6639 <i>Hemiandra pungens</i> (Snakebush)			
660.	38320 <i>Hemiandra</i> sp. Jurien (B.J. Conn & M.E. Tozer BJC 3885)			
661.	25119 <i>Hemiergis quadrilineata</i>			
662.	6671 <i>Hemigenia sericea</i> (Silky Hemigenia)			
663.	26915 <i>Hennedya crispera</i>			
664.	1293 <i>Hensmania turbinata</i>			
665.	<i>Heteroclinus</i> sp.			
666.	<i>Heterodontus portusjacksoni</i>			
667.	24961 <i>Heteronotia binoei</i> (Bynoe's Gecko)			
668.	26930 <i>Heterosiphonia crassipes</i>			
669.	26936 <i>Heterosiphonia muelleri</i>			
670.	<i>Heurodes turritus</i>			
671.	5134 <i>Hibbertia huegelii</i>			
672.	5135 <i>Hibbertia hypericoides</i> (Yellow Buttercups)			
673.	45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			
674.	5154 <i>Hibbertia perfoliata</i>			
675.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
676.	48381 <i>Hibbertia striata</i>			
677.	5173 <i>Hibbertia subvaginata</i>			
678.	5176 <i>Hibbertia vaginata</i>			
679.	47965 <i>Hieraaetus morphnoides</i> (Little Eagle)			
680.	25734 <i>Himantopus himantopus</i> (Black-winged Stilt)			
681.	<i>Hippocampus elongatus</i>			
682.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
683.	<i>Hogna crispipes</i>			
684.	<i>Holasteron perth</i>			
685.	<i>Holconia westralia</i>			
686.	444 <i>Holcus lanatus</i> (Yorkshire Fog)	Y		
687.	445 <i>Holcus setiger</i> (Annual Fog)	Y		
688.	<i>Holoplatys dejongi</i>			
689.	6222 <i>Homalosciadium homalocarpum</i>			
690.	5816 <i>Homalospermum firmum</i>			
691.	448 <i>Hordeum glaucum</i> (Northern Barley Grass)	Y		
692.	3966 <i>Hovea pungens</i> (Devil's Pins, Puyenak)			
693.	3968 <i>Hovea trisperma</i> (Common Hovea)			
694.	12859 <i>Hovea trisperma</i> var. <i>trisperma</i>			
695.	12741 <i>Hyalosperma cotula</i>			
696.	5216 <i>Hybanthus calycinus</i> (Wild Violet)			
697.	5218 <i>Hybanthus debillissimus</i>			
698.	<i>Hydnoplicata convoluta</i>			
699.	26949 <i>Hydroclathrus clathratus</i>			
700.	6224 <i>Hydrocotyle blepharocarpa</i>			
701.	6226 <i>Hydrocotyle callicarpa</i> (Small Pennywort)			
702.	6240 <i>Hydrocotyle scutellifera</i>			
703.	25366 <i>Hydrophis elegans</i> (Elegant Seasnake, Bar-bellied Seasnake)			
704.	42410 <i>Hydrophis ornatus</i> (Ornate Reef Seasnake, Sea Snake)			
705.	43384 <i>Hydrophis platurus</i> (Yellow-bellied Seasnake)			
706.	26966 <i>Hypnea charoides</i>			
707.	35898 <i>Hypnea musciformis</i>			
708.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
709.	35070 <i>Hypocalymma angustifolium</i> subsp. Swan Coastal Plain (G.J. Keighery 16777)			
710.	5825 <i>Hypocalymma robustum</i> (Swan River Myrtle)			
711.	8086 <i>Hypochoeris glabra</i> (Smooth Catsear)	Y		
712.	9352 <i>Hypochoeris radicata</i> (Flat Weed, Cats-ear)	Y		
713.	1070 <i>Hypolaena exsulca</i>			
714.	17841 <i>Hypolaena pubescens</i>			
715.	<i>Hypoplectrodes nigroruber</i>			
716.	<i>Idiommata blackwalli</i>			
717.	<i>Inegocia japonica</i>			
718.	48508 <i>Inocybe brunneidisca</i>			
719.	48521 <i>Inocybe froudistii</i>			
720.	40870 <i>Inocybe rufuloides</i>	Y		
721.	<i>Iridaceae</i> sp.			Y
722.	910 <i>Isolepis cernua</i> (Nodding Club-rush)			
723.	20199 <i>Isolepis cernua</i> var. <i>cernua</i>			
724.	20200 <i>Isolepis cernua</i> var. <i>setiformis</i>			
725.	912 <i>Isolepis cyperoides</i>			

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726.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
727.	919 <i>Isolepis oldfieldiana</i>			
728.	924 <i>Isolepis stellata</i> (Star Club-rush)			
729.	<i>Isopeda leishmanni</i>			
730.	7396 <i>Isotoma hypocrateriformis</i> (Woodbridge Poison)			
731.	3992 <i>Isotropis cuneifolia</i> (Granny Bonnets)			
732.	19700 <i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>			
733.	8092 <i>Ixiolaena viscosa</i> (Sticky <i>Ixiolaena</i> )			
734.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
735.	4029 <i>Jacksonia sternbergiana</i> (Stinkwood, Kapur)			
736.	26985 <i>Jania micrarthrodia</i>			
737.	20454 <i>Juncus acutus</i> subsp. <i>acutus</i>	Y		
738.	1178 <i>Juncus bufonius</i> (Toad Rush)	Y		
739.	1185 <i>Juncus kraussii</i> (Sea Rush)			
740.	1186 <i>Juncus microcephalus</i>	Y		
741.	1188 <i>Juncus pallidus</i> (Pale Rush)			
742.	1189 <i>Juncus pauciflorus</i> (Loose Flower Rush)			
743.	1190 <i>Juncus planifolius</i> (Broadleaf Rush)			
744.	<i>Kanekonia queenslandica</i>			
745.	<i>Kanekonia queenslandica</i>			
746.	<i>Kangarosa properipes</i>			
747.	4037 <i>Kennedia coccinea</i> (Coral Vine)			
748.	4044 <i>Kennedia prostrata</i> (Scarlet Runner)			
749.	24070 <i>Kogia breviceps</i> (Pygmy Sperm Whale)			
750.	5832 <i>Kunzea ericifolia</i> (Spearwood, Pondil)			
751.	15498 <i>Kunzea glabrescens</i> (Spearwood)			
752.	<i>Kyphosus sydneyanus</i>			
753.	<i>Laccaria lateritia</i>			
754.	20019 <i>Lachnagrostis filiformis</i>			
755.	19955 <i>Lachnagrostis plebeia</i>			
756.	19956 <i>Lachnagrostis preissii</i>			
757.	8096 <i>Lactuca serriola</i> (Prickly Lettuce)	Y		
758.	18585 <i>Lagenophora huegelii</i>			
759.	<i>Lagocephalus sceleratus</i>			
760.	467 <i>Lagurus ovatus</i> (Hare's Tail Grass)	Y		
761.	<i>Lampona cylindrata</i>			
762.	28342 <i>Landoltia punctata</i> (Thin Duckweed)			
763.	30920 <i>Larus crassirostris</i> (Black-tailed Gull)			Y
764.	24511 <i>Larus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Silver Gull)			
765.	4052 <i>Latrobea tenella</i>			
766.	<i>Latrodictus hasseltii</i>			
767.	48408 <i>Laurencia dendroidea</i>			
768.	27000 <i>Laurencia elata</i>			
769.	27001 <i>Laurencia filiformis</i>			
770.	4958 <i>Lawrenzia spicata</i>			
771.	1307 <i>Laxmannia ramosa</i> (Branching Lily)			
772.	11911 <i>Laxmannia ramosa</i> subsp. <i>ramosa</i>			
773.	1309 <i>Laxmannia squarrosa</i>			
774.	7572 <i>Lechenaultia expansa</i>			
775.	7574 <i>Lechenaultia floribunda</i> (Free-flowering <i>Leschenaultia</i> )			
776.	7580 <i>Lechenaultia linarioides</i> (Yellow <i>Leschenaultia</i> )			
777.	27011 <i>Lenormandia latifolia</i>			
778.	39038 <i>Leocarpus fragilis</i>			
779.	44490 <i>Leontodon rhagadioloides</i>	Y		
780.	<i>Lepidosperma</i> ?aff. <i>costale</i>			Y
781.	925 <i>Lepidosperma angustatum</i>			
782.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
783.	940 <i>Lepidosperma pubisquameum</i>			
784.	<i>Lepidosperma pubisquameum</i> "flat form"			
785.	944 <i>Lepidosperma scabrum</i>			
786.	<i>Lepidosperma scabrum</i> (inland form)			Y
787.	<i>Lepidosperma</i> sp.			
788.	<i>Lepidosperma</i> sp. <i>Baldivis</i>			Y
789.	<i>Lepidosperma</i> sp. <i>Brixton Street broad inflorescence</i>			
790.	<i>Lepidosperma</i> sp. <i>Brixton Street broadish inflorescence</i>			Y
791.	<i>Lepidosperma</i> sp. <i>Brixton Street narrow inflorescence</i>			
792.	29150 <i>Lepidosperma</i> sp. <i>Margaret River</i> (B.J. Lepschi 1841)			
793.	945 <i>Lepidosperma squamatum</i>			
794.	<i>Lepidosperma squamatum</i> s.l.			
795.	946 <i>Lepidosperma striatum</i>			

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796.	<i>Lepidotrigla papilio</i>			
797.	1653 <i>Leporella fimbriata</i> (Hare Orchid)			
798.	1077 <i>Leptocarpus canus</i> (Hoary Twine-rush)			
799.	1078 <i>Leptocarpus coangustatus</i>			
800.	19833 <i>Leptocarpus laxus</i>			
801.	1080 <i>Leptocarpus scariosus</i>			
802.	15418 <i>Leptoceras menziesii</i>			
803.	2342 <i>Leptomeria cunninghamii</i>			
804.	2344 <i>Leptomeria empetriformis</i>			
805.	2350 <i>Leptomeria pauciflora</i> (Sparse-flowered Currant Bush)			
806.	2352 <i>Leptomeria preissiana</i>			
807.	27015 <i>Leptosomia rosea</i>			
808.	5850 <i>Leptospermum laevigatum</i> (Coast Teatree)	Y		
809.	1090 <i>Lepyrodia muirii</i>			
810.	25131 <i>Lerista distinguenda</i>			
811.	25133 <i>Lerista elegans</i>			
812.	6360 <i>Leucopogon australis</i> (Spiked Beard-heath)			
813.	6374 <i>Leucopogon conostephioides</i>			
814.	6427 <i>Leucopogon parviflorus</i> (Coast Beard-heath)			
815.	6434 <i>Leucopogon polymorphus</i>			
816.	6436 <i>Leucopogon propinquus</i>			
817.	7676 <i>Levenhookia pusilla</i> (Midget Stylewort)			
818.	<i>Levenhookia pusilla/stipitata</i>			
819.	7677 <i>Levenhookia stipitata</i> (Common Stylewort)			
820.	25005 <i>Lialis burtonis</i>			
821.	31280 <i>Lichenomphalia chromacea</i>			
822.	31333 <i>Lichenomphalia umbellifera</i>			
823.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
824.	25415 <i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
825.	4362 <i>Linum marginale</i> (Wild Flax)			
826.	36160 <i>Liparophyllum capitatum</i>			
827.	25378 <i>Litoria adelaidensis</i> (Slender Tree Frog)			
828.	25388 <i>Litoria moorei</i> (Motorbike Frog)			
829.	9289 <i>Lobelia anceps</i> (Angled Lobelia)			
830.	7407 <i>Lobelia rhytidosperra</i> (Wrinkled-seeded Lobelia)			
831.	7408 <i>Lobelia tenuior</i> (Slender Lobelia)			
832.	27043 <i>Lobophora variegata</i>			
833.	6515 <i>Logania vaginalis</i> (White Spray)			
834.	476 <i>Lolium perenne</i> (Perennial Ryegrass)	Y		
835.	478 <i>Lolium rigidum</i> (Wimmera Ryegrass)	Y		
836.	<i>Lolium sp. (annual)</i>			
837.	<i>Lomandra ?caespitosa</i>			
838.	<i>Lomandra ?preissii</i>			
839.	1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)			
840.	1228 <i>Lomandra hermaphrodita</i>			
841.	1231 <i>Lomandra maritima</i>			
842.	1232 <i>Lomandra micrantha</i> (Small-flower Mat-rush)			
843.	14542 <i>Lomandra micrantha subsp. micrantha</i>			
844.	1234 <i>Lomandra nigricans</i>			
845.	1239 <i>Lomandra preissii</i>			
846.	1243 <i>Lomandra sericea</i> (Silky Mat Rush)			
847.	1246 <i>Lomandra suaveolens</i>			
848.	25683 <i>Lonchura castaneothorax</i> (Chestnut-breasted Mannikin)			
849.	<i>Lophoictinia isura</i>			
850.	8564 <i>Lotus subbiflorus</i>	Y		
851.	1198 <i>Luzula meridionalis</i> (Field Woodrush)			
852.	39048 <i>Lycogala epidendrum</i>			
853.	<i>Lycosa ariadnae</i>			
854.	<i>Lycosa australicola</i>			
855.	<i>Lycosa godeffroyi</i>			
856.	1097 <i>Lyginia barbata</i>			
857.	<i>Lyginia barbata/imberbis</i>			
858.	18049 <i>Lyginia imberbis</i>			
859.	1656 <i>Lyperanthus serratus</i> (Rattle Beak Orchid)			
860.	36375 <i>Lysimachia arvensis</i> (Pimpernel)	Y		
861.	6456 <i>Lysinema ciliatum</i> (Curry Flower)			
862.	6458 <i>Lysinema elegans</i>			
863.	5281 <i>Lythrum hyssopifolia</i> (Lesser Loosestrife)	Y		
864.	2839 <i>Macarthuria australis</i>			
865.	24132 <i>Macropus fuliginosus</i> (Western Grey Kangaroo)			



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866.	18119 <i>Macrozamia fraseri</i>			
867.	85 <i>Macrozamia riedlei</i> ( <i>Zamia</i> , <i>Djiridji</i> )			
868.	24326 <i>Malacorhynchus membranaceus</i> ( <i>Pink-eared Duck</i> )			
869.	25651 <i>Malurus lamberti</i> ( <i>Variogated Fairy-wren</i> )			
870.	25654 <i>Malurus splendens</i> ( <i>Splendid Fairy-wren</i> )			
871.	36480 <i>Malva arborea</i> ( <i>Tree Mallow</i> )	Y		
872.	36522 <i>Malva pseudolavatera</i>	Y		
873.	24583 <i>Manorina flavigula</i> ( <i>Yellow-throated Miner</i> )			
874.	<i>Maratus pavonis</i>			
875.	<i>Maxillcosta scabriceps</i>			
876.	4079 <i>Medicago polymorpha</i> ( <i>Burr Medic</i> )	Y		
877.	25758 <i>Megalurus gramineus</i> ( <i>Little Grassbird</i> )			
878.	36296 <i>Melaleuca armillaris</i> subsp. <i>armillaris</i>	Y		
879.	5900 <i>Melaleuca cuticularis</i> ( <i>Saltwater Paperbark</i> )			
880.	5920 <i>Melaleuca huegelii</i> ( <i>Chenille Honeymyrtle</i> )			
881.	13271 <i>Melaleuca huegelii</i> subsp. <i>huegelii</i>			
882.	13273 <i>Melaleuca incana</i> subsp. <i>incana</i>			
883.	5926 <i>Melaleuca lateritia</i> ( <i>Robin Redbreast Bush</i> )			
884.	5946 <i>Melaleuca pauciflora</i>			
885.	5952 <i>Melaleuca preissiana</i> ( <i>Moonah</i> )			
886.	5959 <i>Melaleuca rhapsiophylla</i> ( <i>Swamp Paperbark</i> )			
887.	5964 <i>Melaleuca seriata</i>			
888.	18598 <i>Melaleuca systema</i>			
889.	5978 <i>Melaleuca teretifolia</i> ( <i>Banbar</i> )			
890.	5980 <i>Melaleuca thymoides</i>			
891.	13280 <i>Melaleuca viminea</i> subsp. <i>viminea</i>			
892.	47997 <i>Melanodryas cucullata</i> ( <i>Hooded Robin</i> )			
893.	4516 <i>Melia azedarach</i> ( <i>White Cedar</i> )			
894.	4084 <i>Melilotus albus</i>	Y		
895.	4085 <i>Melilotus indicus</i>	Y		
896.	25663 <i>Melithreptus brevirostris</i> ( <i>Brown-headed Honeyeater</i> )			
897.	25184 <i>Menetia greyii</i>			
898.	25185 <i>Menetia maini</i>			
899.	25186 <i>Menetia surda</i> subsp. <i>cresswelli</i>			
900.	25187 <i>Menetia surda</i> subsp. <i>surda</i>			
901.	6883 <i>Mentha pulegium</i> ( <i>Pennyroyal</i> )	Y		
902.	24598 <i>Merops ornatus</i> ( <i>Rainbow Bee-eater</i> )			
903.	955 <i>Mesomelaena pseudostygia</i>			
904.	957 <i>Mesomelaena tetragona</i> ( <i>Semaphore Sedge</i> )			
905.	<i>Metavelifer multiradiatus</i>			
906.	<i>Meuschenia freycineti</i>			
907.	<i>Meuschenia hippocrepis</i>			
908.	<i>Microcanthus strigatus</i>			
909.	<i>Microcarbo melanoleucos</i>			
910.	25693 <i>Microeca fascinans</i> ( <i>Jacky Winter</i> )			
911.	485 <i>Microlaena stipoides</i> ( <i>Weeping Grass</i> )			
912.	1658 <i>Microtis atrata</i> ( <i>Swamp Mignonette Orchid</i> )			
913.	15419 <i>Microtis media</i> subsp. <i>media</i>			
914.	8106 <i>Millotia tenuifolia</i> ( <i>Soft Millotia</i> )			
915.	16693 <i>Minuartia mediterranea</i>	Y		
916.	<i>Missulena granulosa</i>			
917.	<i>Missulena hoggi</i>			
918.	<i>Monacanthus chinensis</i>			
919.	37440 <i>Monopsis debilis</i> var. <i>depressa</i>	Y		
920.	4662 <i>Monotaxis grandiflora</i> ( <i>Diamond of the Desert</i> )			
921.	4666 <i>Monotaxis occidentalis</i>			
922.	19179 <i>Moraea flaccida</i> ( <i>One-leaf Cape Tulip</i> )	Y		
923.	19438 <i>Moraea ochroleuca</i>	Y		
924.	25188 <i>Morethia adelaidensis</i>			
925.	25189 <i>Morethia boulengeri</i>			
926.	25191 <i>Morethia lineocellata</i>			
927.	25192 <i>Morethia obscura</i>			
928.	25193 <i>Morethia ruficauda</i> subsp. <i>exquisita</i>			
929.	25194 <i>Morethia ruficauda</i> subsp. <i>ruficauda</i>			
930.	25195 <i>Morethia storri</i>			
931.	48008 <i>Morus serrator</i> ( <i>Australasian Gannet</i> )			
932.	2412 <i>Muehlenbeckia adpressa</i> ( <i>Climbing Lignum</i> )			
933.	24223 <i>Mus musculus</i> ( <i>House Mouse</i> )	Y		
934.	<i>Myandra bicincta</i>			
935.	25420 <i>Myobatrachus gouldii</i> ( <i>Turtle Frog</i> )			



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936.	7291 <i>Myoporum insulare</i> (Blueberry Tree, boobialla)			
937.	27089 <i>Myriodesma peronii</i>			
938.	6189 <i>Myriophyllum crispatum</i>			
939.	6199 <i>Myriophyllum tillaeoides</i>			
940.	<i>Nanometa gentilis</i>			
941.	<i>Neatypus obliquus</i>			
942.	25248 <i>Neelaps bimaculatus</i> (Black-naped Snake)			
943.	<i>Neoodax balteatus</i>			
944.	<i>Neoodax</i> sp.			
945.	24738 <i>Neophema elegans</i> (Elegant Parrot)			
946.	<i>Neosebastes pandus</i>			
947.	<i>Nephila edulis</i>			
948.	492 <i>Neurachne alopecuroidea</i> (Foxtail Mulga Grass)			
949.	<i>Nicodamus mainae</i>			
950.	6974 <i>Nicotiana glauca</i> (Tree Tobacco)	Y		
951.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
952.	<i>Notolabrus parilus</i>			
953.	25197 <i>Notoscincus ornatus</i> subsp. <i>ornatus</i>			
954.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
955.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
956.	24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)			
957.	<i>Ocrisiona parmeliae</i>			
958.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
959.	6140 <i>Oenothera mollissima</i>	Y		
960.	14292 <i>Oenothera stricta</i> subsp. <i>stricta</i>	Y		
961.	8127 <i>Olearia axillaris</i> (Coastal Daisybush)			
962.	8149 <i>Olearia rudis</i> (Rough Daisybush)			
963.	<i>Olpidium brassicae</i>			Y
964.	<i>Omegophora armilla</i>			
965.	<i>Ommatoiulus moreletii</i>			
966.	<i>Onigocia pedimacula?</i>			
967.	7348 <i>Opercularia hispidula</i> (Hispid Stinkweed)			
968.	18255 <i>Opercularia vaginata</i> (Dog Weed)			
969.	12782 <i>Ophioglossum gramineum</i>			
970.	<i>Ophisurus serpens</i>			
971.	36177 <i>Ornduffia albiflora</i>			
972.	1372 <i>Ornithogalum arabicum</i> (Lesser Cape Lily)	Y		
973.	4113 <i>Ornithopus compressus</i> (Yellow Serradella)	Y		
974.	7122 <i>Orobanche minor</i> (Lesser Broomrape)	Y		
975.	24085 <i>Oryctolagus cuniculus</i> (Rabbit)	Y		
976.	27107 <i>Osmundaria prolifera</i>			
977.	4358 <i>Oxalis purpurea</i> (Largeflower Wood Sorrel)	Y		
978.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
979.	<i>Pagrus auratus</i>			
980.	<i>Parablennius postoculomaculatus</i>			
981.	1667 <i>Paracaleana nigrita</i> (Flying Duck Orchid)			
982.	<i>Parapercis haackei</i>			
983.	516 <i>Parapholis incurva</i> (Coast Barbgrass)	Y		
984.	25253 <i>Parasuta gouldii</i>			
985.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
986.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
987.	24630 <i>Pardalotus striatus</i> subsp. <i>westraliensis</i> (Striated Pardalote)			
988.	527 <i>Paspalum dilatatum</i>	Y		
989.	528 <i>Paspalum distichum</i> (Water Couch)	Y		
990.	24642 <i>Passer montanus</i> (Eurasian Tree Sparrow)	Y		
991.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
992.	30471 <i>Patersonia occidentalis</i> var. <i>angustifolia</i>			
993.	30472 <i>Patersonia occidentalis</i> var. <i>occidentalis</i>			
994.	24674 <i>Pavo cristatus</i> (Common Peafowl, Indian Peafowl)	Y		
995.	<i>Pegasus volitans</i>			
996.	4343 <i>Pelargonium capitatum</i> (Rose Pelargonium)	Y		
997.	4346 <i>Pelargonium littorale</i>			
998.	<i>Pelates sexlineatus</i>			
999.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
1000.	<i>Pempheris klunzingeri</i>			
1001.	40423 <i>Pentameris airoides</i> (False Hairgrass)	Y		
1002.	<i>Pentapodus vitta</i>			
1003.	6006 <i>Pericalymma ellipticum</i> (Swamp Teatree)			
1004.	16477 <i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			
1005.	16984 <i>Persicaria lapathifolia</i>	Y		

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1006.	2273 <i>Persoonia saccata</i> (Snottygobble)			
1007.	27126 <i>Petalonia fascia</i>			
1008.	48060 <i>Petrochelidon ariel</i> (Fairy Martin)			
1009.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
1010.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
1011.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
1012.	20368 <i>Petrophile axillaris</i>			
1013.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
1014.	2301 <i>Petrophile macrostachya</i>			
1015.	2309 <i>Petrophile serruriae</i>			
1016.	2312 <i>Petrophile striata</i>			
1017.	19825 <i>Petrorhagia dubia</i>	Y		
1018.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
1019.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
1020.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
1021.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
1022.	551 <i>Phalaris minor</i> (Lesser Canary Grass)	Y		
1023.	552 <i>Phalaris paradoxa</i> (Paradoxa Grass)	Y		
1024.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
1025.	25587 <i>Phaps elegans</i> (Brush Bronzewing)			
1026.	18529 <i>Philothea spicata</i> (Pepper and Salt)			
1027.	<i>Phlebia rufa</i>			
1028.	<i>Phlebia subceracea</i>			
1029.	1478 <i>Phlebocarya ciliata</i>			
1030.	<i>Pholiota communis</i>			
1031.	<i>Phryganoporus candidus</i>			
1032.	6734 <i>Phyla nodiflora</i> var. <i>nodiflora</i>	Y		
1033.	48071 <i>Phylidonyris niger</i> (White-cheeked Honeyeater)			
1034.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
1035.	16177 <i>Phyllangium paradoxum</i>			
1036.	4675 <i>Phyllanthus calycinus</i> (False Boronia)			
1037.	<i>Phyllophryne scortea</i>			
1038.	20652 <i>Physalis angulata</i>	Y		
1039.	6983 <i>Physalis peruviana</i> (Cape Gooseberry)	Y		
1040.	39071 <i>Physarum luteolum</i>			Y
1041.	39079 <i>Physarum viride</i>			
1042.	2793 <i>Phytolacca octandra</i> (Red Ink Plant)	Y		
1043.	<i>Phytophthora cinnamomi</i>			
1044.	5252 <i>Pimelea lanata</i>			
1045.	5254 <i>Pimelea leucantha</i>			
1046.	18117 <i>Pimelea rosea</i> subsp. <i>rosea</i>			
1047.	<i>Pinkfloydia harveii</i>			
1048.	88 <i>Pinus radiata</i> (Radiata Pine)	Y		
1049.	7304 <i>Plantago major</i> (Greater Plantain)	Y		
1050.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
1051.	24842 <i>Platalea regia</i> (Royal Spoonbill)			
1052.	<i>Platycephalus longispinis</i>			
1053.	25720 <i>Platycercus icterotis</i> (Western Rosella)			
1054.	24747 <i>Platycercus spurius</i> (Red-capped Parrot)			
1055.	24750 <i>Platycercus zonarius</i> subsp. <i>semitorquatus</i> (Twenty-eight Parrot)			
1056.	6249 <i>Platysace compressa</i> (Tapeworm Plant)			
1057.	6253 <i>Platysace filliformis</i>			
1058.	4524 <i>Platythea galioides</i>			
1059.	25509 <i>Pletholax gracilis</i> (Keeled Legless Lizard)			
1060.	25007 <i>Pletholax gracilis</i> subsp. <i>gracilis</i> (Keeled Legless Lizard)			
1061.	<i>Pluteus atomarginatus</i>			
1062.	38825 <i>Pluteus pauperculus</i>			
1063.	571 <i>Poa annua</i> (Winter Grass)	Y		
1064.	573 <i>Poa drummondiana</i> (Knotted Poa)			
1065.	577 <i>Poa poiformis</i> (Coastal Poa)			
1066.	578 <i>Poa porphyroclados</i>			
1067.	<i>Poaceae</i> sp.			
1068.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
1069.	24679 <i>Podargus strigoides</i> subsp. <i>brachypterus</i> (Tawny Frogmouth)			
1070.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
1071.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
1072.	<i>Podotheca ?gnaphalioides</i>			
1073.	8182 <i>Podotheca angustifolia</i> (Sticky Longheads)			
1074.	8183 <i>Podotheca chrysantha</i> (Yellow Podotheca)			
1075.	8184 <i>Podotheca gnaphalioides</i> (Golden Long-heads)			

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1076.	25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)			
1077.	24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)			
1078.	24908 <i>Pogona minor</i> subsp. <i>mitchelli</i> (Dwarf Bearded Dragon)			
1079.	24909 <i>Pogona nullarbor</i> (Nullarbor Bearded Dragon)			
1080.	24681 <i>Poliocephalus poliocephalus</i> (Hoary-headed Grebe)			
1081.	27162 <i>Pollexfenia pedicellata</i>			
1082.	582 <i>Polypogon monspeliensis</i> (Annual Beardgrass)	Y		
1083.	583 <i>Polypogon tenellus</i>			
1084.	<i>Polyspina piosae</i>			
1085.	25722 <i>Polytelis anthopeplus</i> (Regent Parrot)			
1086.	4691 <i>Poranthera microphylla</i> (Small Poranthera)			
1087.	<i>Poranthera microphylla</i> /moorokatta			
1088.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
1089.	24767 <i>Porphyrio porphyrio</i> subsp. <i>bellus</i> (Purple Swamphen)			
1090.	24769 <i>Porzana fluminea</i> (Australian Spotted Crane)			
1091.	25732 <i>Porzana pusilla</i> (Baillon's Crane)			
1092.	24771 <i>Porzana tabuensis</i> (Spotless Crane)			
1093.	1670 <i>Prasophyllum drummondii</i> (Swamp Leek Orchid)			
1094.	1676 <i>Prasophyllum hians</i> (Yawning Leek Orchid)			
1095.	10853 <i>Prasophyllum plumiforme</i>			
1096.	<i>Prionosternum nitidiceps</i>			
1097.	<i>Prionosternum scutatatum</i>			
1098.	25199 <i>Proablepharus reginae</i>			
1099.	25200 <i>Proablepharus tenuis</i>			
1100.	<i>Psammopectera waigiensis</i>			
1101.	25201 <i>Pseudemoia baudini</i>			
1102.	<i>Pseudocallirichthys goodladi</i>			
1103.	<i>Pseudocaranx dentex</i>			
1104.	<i>Pseudocaranx wrighti</i>			
1105.	36139 <i>Pseudocodium devriesii</i>	Y		
1106.	8189 <i>Pseudognaphalium luteoalbum</i> (Jersey Cudweed)			
1107.	25511 <i>Pseudonaja affinis</i> (Dugite)			
1108.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
1109.	42416 <i>Pseudonaja mengdeni</i> (Western Brown Snake)			
1110.	25433 <i>Pseudophryne guentheri</i> (Crawling Toadlet)			
1111.	<i>Pseudorhombus jenkinsii</i>			
1112.	24702 <i>Pterodroma brevirostris</i> (Kerguelen Petrel)			
1113.	<i>Pterois antennata</i>			
1114.	<i>Pterostylis</i> aff. <i>nana</i>			
1115.	<i>Pterostylis</i> aff. <i>nana</i> long sepal			Y
1116.	15426 <i>Pterostylis aspera</i>			
1117.	48677 <i>Pterostylis ectypha</i>			
1118.	44723 <i>Pterostylis glebosa</i>			
1119.	1693 <i>Pterostylis recurva</i> (Jug Orchid)			
1120.	12217 <i>Pterostylis sanguinea</i>			
1121.	<i>Pterostylis</i> sp.			
1122.	1698 <i>Pterostylis vittata</i> (Banded Greenhood)			
1123.	<i>Pterygotrigla polyommata</i>			
1124.	2718 <i>Ptilotus drummondii</i> (Narrowleaf Mulla Mulla)			
1125.	11260 <i>Ptilotus drummondii</i> var. <i>drummondii</i> (Pussytail)			
1126.	2742 <i>Ptilotus manglesii</i> (Pom Poms, Mulamula)			
1127.	2751 <i>Ptilotus polystachyus</i> (Prince of Wales Feather)			
1128.	4177 <i>Pultenaea ochreatea</i>			
1129.	4181 <i>Pultenaea reticulata</i>			
1130.	<i>Purpurecephalus spurius</i>			
1131.	48835 <i>Pycnopus coccineus</i>			
1132.	25008 <i>Pygopus lepidopodus</i> (Common Scaly Foot)			
1133.	25009 <i>Pygopus nigriceps</i>			
1134.	16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)			
1135.	8195 <i>Quinetia urvillei</i>			
1136.	2938 <i>Ranunculus trilobus</i> (Buttercup)	Y		
1137.	24243 <i>Rattus fuscipes</i> (Western Bush Rat)			
1138.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
1139.	<i>Raveniella peckorum</i>			
1140.	24776 <i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			
1141.	6012 <i>Regelia ciliata</i>			
1142.	8197 <i>Reichardia tingitana</i> (False Sowthistle)	Y		
1143.	3084 <i>Reseda lutea</i> (Cutleaf Mingnonette)	Y		
1144.	3085 <i>Reseda luteola</i> (Wild Mingnonette)	Y		
1145.	48434 <i>Reticularia lobata</i>			Y

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
1146.	<i>Rhabdosargus sarba</i>			
1147.	11341 <i>Rhagodia baccata</i> subsp. <i>baccata</i>			
1148.	4822 <i>Rhamnus alaternus</i> (Buckthorn)	Y		
1149.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
1150.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
1151.	13300 <i>Rhodanthe citrina</i>			
1152.	<i>Rickenella fibula</i>			
1153.	14485 <i>Romulea flava</i> var. <i>minor</i>	Y		
1154.	1556 <i>Romulea rosea</i> (Guildford Grass)	Y		
1155.	14924 <i>Romulea rosea</i> var. <i>communis</i>	Y		
1156.	10970 <i>Rostraria cristata</i>	Y		
1157.	116 <i>Ruppia polycarpa</i>			
1158.	40431 <i>Rytidosperma acerosum</i>			
1159.	40426 <i>Rytidosperma occidentale</i>			
1160.	2906 <i>Sagina apetala</i> (Annual Pearlwort)	Y		
1161.	2908 <i>Sagina maritima</i>	Y		
1162.	30434 <i>Salsola australis</i>			
1163.	6483 <i>Samolus junceus</i>			
1164.	6484 <i>Samolus repens</i> (Creeping Brookweed)			
1165.	11647 <i>Samolus repens</i> var. <i>repens</i>			
1166.	27230 <i>Sarconema filiforme</i>			
1167.	<i>Sardinella lemuru</i>			
1168.	7368 <i>Scabiosa atropurpurea</i> (Purple Pincushion)	Y		
1169.	7595 <i>Scaevola anchusifolia</i>			
1170.	7603 <i>Scaevola canescens</i> (Grey Scaevola)			
1171.	7606 <i>Scaevola crassifolia</i> (Thick-leaved Fan-flower)			
1172.	13152 <i>Scaevola thesioides</i> subsp. <i>thesioides</i>			
1173.	48834 <i>Schinus terebinthifolia</i>	Y		
1174.	978 <i>Schoenus brevisetis</i>			
1175.	982 <i>Schoenus clandestinus</i>			
1176.	984 <i>Schoenus curvifolius</i>			
1177.	986 <i>Schoenus efoliatus</i>			
1178.	992 <i>Schoenus grandiflorus</i> (Large Flowered Bogrush)			
1179.	1004 <i>Schoenus nitens</i> (Shiny Bog-rush)			
1180.	1007 <i>Schoenus pedicellatus</i>			
1181.	1017 <i>Schoenus subbulbosus</i>			
1182.	6033 <i>Scholtzia involucrata</i> (Spiked Scholtzia)			
1183.	<i>Scleroderma cepa</i>			
1184.	<i>Scobinichthys granulatus</i>			
1185.	<i>Scorpaena sumptuosa</i>			
1186.	<i>Scorpius georgianus</i>			
1187.	35911 <i>Scytosiphon lomentaria</i>			
1188.	6 <i>Selaginella gracillima</i> (Tiny Clubmoss)			
1189.	25878 <i>Senecio condylus</i>			
1190.	25534 <i>Sericornis frontalis</i> (White-browed Scrubwren)			
1191.	<i>Servaea melaina</i>			
1192.	<i>Servaea spinibarbis</i>			
1193.	27279 <i>Shepleya claviformis</i>			Y
1194.	2909 <i>Silene gallica</i> (French Catchfly)	Y		
1195.	15972 <i>Silene gallica</i> var. <i>gallica</i>	Y		
1196.	<i>Sillago bassensis</i>			
1197.	<i>Sillago burrus</i>			
1198.	8225 <i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
1199.	<i>Simaetha tenuior</i>			
1200.	25266 <i>Simoselaps bertholdi</i> (Jan's Banded Snake)			
1201.	25267 <i>Simoselaps littoralis</i> (West Coast Banded Snake)			
1202.	<i>Siphania cuneiceps</i>			
1203.	<i>Siphonognathus argyrophanes</i>			
1204.	<i>Siphonognathus radiatus</i>			
1205.	42785 <i>Sirophycalis trinodis</i>			
1206.	<i>Smeringopus natalensis</i>			
1207.	30948 <i>Smicromis brevirostris</i> (Weebill)			
1208.	7020 <i>Solanum linnaeanum</i> (Apple of Sodom)	Y		
1209.	7022 <i>Solanum nigrum</i> (Black Berry Nightshade)	Y		
1210.	7037 <i>Solanum symonii</i>			
1211.	27281 <i>Solieria robusta</i>			
1212.	8230 <i>Sonchus asper</i> (Rough Sowthistle)	Y		
1213.	9367 <i>Sonchus hydrophilus</i> (Native Sowthistle)			
1214.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
1215.	1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
1216.	4211 <i>Sphaerolobium vimineum</i> (Leafless Globe Pea)			
1217.	<i>Sphyraena obtusata</i>			
1218.	635 <i>Sporobolus virginicus</i> (Marine Couch)			
1219.	27310 <i>Spyridia filamentosa</i>			
1220.	4828 <i>Spyridium globulosum</i> (Basket Bush)			
1221.	<i>Squatina australis</i>			
1222.	<i>Steatoda grossa</i>			
1223.	2918 <i>Stellaria media</i> (Chickweed)	Y		
1224.	39087 <i>Stemonitis splendens</i>			
1225.	19403 <i>Stenopetalum gracile</i>			
1226.	48594 <i>Sternula nereis</i> (Fairy Tern)			
1227.	24329 <i>Stictonetta naevosa</i> (Freckled Duck)			
1228.	<i>Stigmatopora argus</i>			
1229.	<i>Stigmatopora nigra</i>			
1230.	2316 <i>Stirlingia latifolia</i> (Blueboy)			
1231.	<i>Strabozebrias cancellatus</i>			
1232.	25597 <i>Strepera versicolor</i> (Grey Currawong)			
1233.	25589 <i>Streptopelia chinensis</i> (Spotted Turtle-Dove)	Y		
1234.	30951 <i>Streptopelia chinensis</i> subsp. <i>tigrina</i> (Spotted Turtle-Dove)	Y		
1235.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
1236.	24942 <i>Strophurus spinigerus</i> subsp. <i>spinigerus</i>			
1237.	25831 <i>Stylidium araeophyllum</i> (Stilt Walker)			
1238.	<i>Stylidium araeophyllum/neurophyllum</i>			
1239.	7693 <i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
1240.	7694 <i>Stylidium bulbiferum</i> (Circus Triggerplant)			
1241.	7696 <i>Stylidium calcaratum</i> (Book Triggerplant)			
1242.	7699 <i>Stylidium carnosum</i> (Fleshy-leaved Triggerplant)			
1243.	7717 <i>Stylidium divaricatum</i> (Daddy-long-legs)			
1244.	7718 <i>Stylidium diversifolium</i> (Touch-me-not)			
1245.	7734 <i>Stylidium guttatum</i> (Dotted Triggerplant)			
1246.	25801 <i>Stylidium hesperium</i>			
1247.	7774 <i>Stylidium piliferum</i> (Common Butterfly Triggerplant)			
1248.	7785 <i>Stylidium repens</i> (Matted Triggerplant)			
1249.	25806 <i>Stylidium scariosum</i>			
1250.	7798 <i>Stylidium schoenoides</i> (Cow Kicks)			
1251.	7806 <i>Stylidium utricularioides</i> (Pink Fan Triggerplant)			
1252.	1260 <i>Stypandra glauca</i> (Blind Grass)			
1253.	24259 <i>Sus scrofa</i> (Pig)	Y		
1254.	2326 <i>Synaphea polymorpha</i> (Albany Synaphea, Pinda)			
1255.	2329 <i>Synaphea spinulosa</i>			
1256.	15532 <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>			
1257.	<i>Synchiropus papilio</i>			
1258.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
1259.	24682 <i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
1260.	24207 <i>Tachyglossus aculeatus</i> (Short-beaked Echidna)			
1261.	24331 <i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
1262.	<i>Tamopsis distinguenda</i>			
1263.	<i>Tamopsis perthensis</i>			
1264.	24167 <i>Tarsipes rostratus</i> (Honey Possum, Noolbenger)			
1265.	<i>Tasmanicosa leuckartii</i>			
1266.	20135 <i>Taxandria linearifolia</i>			
1267.	4256 <i>Templetonia retusa</i> (Cockies Tongues)			
1268.	2791 <i>Tersonia cyathiflora</i> (Button Creeper)			
1269.	<i>Tetragnatha demissa</i>			
1270.	<i>Tetragnatha nitens</i>			
1271.	<i>Tetragnatha valida</i>			
1272.	2820 <i>Tetragonia decumbens</i> (Sea Spinach)	Y		
1273.	1036 <i>Tetralia octandra</i>			
1274.	<i>Thelymitra</i> aff. <i>pauciflora</i>			
1275.	1702 <i>Thelymitra campanulata</i> (Shirt Orchid)			
1276.	1705 <i>Thelymitra crinita</i> (Blue Lady Orchid)			
1277.	1708 <i>Thelymitra fuscolutea</i> (Chestnut Sun Orchid)			
1278.	11143 <i>Thelymitra graminea</i>			
1279.	11053 <i>Thelymitra macrophylla</i>			
1280.	1710 <i>Thelymitra mucida</i> (Plum Orchid)			
1281.	20731 <i>Thelymitra vulgaris</i>			
1282.	20728 <i>Thelymitra xanthotricha</i>			
1283.	5077 <i>Thomasia cognata</i>			
1284.	5105 <i>Thomasia triphylla</i>			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
1285.	2644 <i>Threlkeldia diffusa</i> (Coast Bonefruit)			
1286.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
1287.	<i>Thysanophrys cirronasus</i>			
1288.	<i>Thysanotus ?thyroideus</i>			
1289.	1318 <i>Thysanotus arbuscula</i>			
1290.	1319 <i>Thysanotus arenarius</i>			
1291.	1328 <i>Thysanotus dichotomus</i> (Branching Fringe Lily)			
1292.	1338 <i>Thysanotus manglesianus</i> (Fringed Lily)			
1293.	<i>Thysanotus manglesianus/patersonii</i> complex			
1294.	1339 <i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
1295.	1343 <i>Thysanotus patersonii</i>			
1296.	<i>Thysanotus</i> sp.			
1297.	1351 <i>Thysanotus sparteus</i>			
1298.	1357 <i>Thysanotus thyroideus</i>			
1299.	1358 <i>Thysanotus triandrus</i>			
1300.	25202 <i>Tiliqua multifasciata</i> (Central Blue-tongue)			
1301.	25203 <i>Tiliqua occipitalis</i> (Western Bluetongue)			
1302.	25519 <i>Tiliqua rugosa</i>			
1303.	25204 <i>Tiliqua rugosa</i> subsp. <i>aspera</i>			
1304.	25207 <i>Tiliqua rugosa</i> subsp. <i>rugosa</i>			
1305.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
1306.	<i>Torquigener pleurogramma</i>			
1307.	6280 <i>Trachymene pilosa</i> (Native Parsnip)			
1308.	38845 <i>Trechispora farinacea</i>			
1309.	1481 <i>Tribonanthes australis</i> (Southern Tiurndin)			
1310.	48141 <i>Tribonyx ventralis</i> (Black-tailed Native-hen)			
1311.	4383 <i>Tribulus terrestris</i> (Caltrop)	Y		
1312.	39097 <i>Trichia decipiens</i>			
1313.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
1314.	25521 <i>Trichosurus vulpecula</i> (Common Brushtail Possum)			
1315.	24158 <i>Trichosurus vulpecula</i> subsp. <i>vulpecula</i> (Common Brushtail Possum)			
1316.	1361 <i>Tricoryne elatior</i> (Yellow Autumn Lily)			
1317.	1363 <i>Tricoryne tenella</i>			
1318.	1038 <i>Tricostularia neesii</i>			
1319.	<i>Tridentiger trigonocephalus</i>			
1320.	17145 <i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Y		
1321.	4292 <i>Trifolium campestre</i> (Hop Clover)	Y		
1322.	<i>Trifolium campestre/dubium</i>			
1323.	4293 <i>Trifolium cernuum</i> (Drooping Flower Clover)	Y		
1324.	4298 <i>Trifolium hirtum</i> (Rose Clover)	Y		
1325.	14738 <i>Trifolium resupinatum</i> var. <i>resupinatum</i>	Y		
1326.	147 <i>Triglochin mucronata</i>			
1327.	151 <i>Triglochin striata</i>			
1328.	708 <i>Triticum aestivum</i> (Wheat)	Y		
1329.	4360 <i>Tropaeolum majus</i> (Garden Nasturtium)	Y		
1330.	<i>Trygonoptera personata</i>			
1331.	<i>Trygonorrhina fasciata</i>			
1332.	39103 <i>Tubifera ferruginosa</i>			
1333.	48147 <i>Turnix varius</i> (Painted Button-quail)			
1334.	24851 <i>Turnix velox</i> (Little Button-quail)			
1335.	30954 <i>Tursiops aduncus</i> (Indo-Pacific Bottlenose Dolphin)			
1336.	24069 <i>Tursiops truncatus</i> (Bottlenose Dolphin)			
1337.	99 <i>Typha orientalis</i> (Bulrush, Cumbungi)			
1338.	25762 <i>Tyto alba</i> (Barn Owl)			
1339.	24852 <i>Tyto alba</i> subsp. <i>delicatula</i> (Barn Owl)			
1340.	27352 <i>Ulva lactuca</i>			
1341.	27354 <i>Ulva rigida</i>			
1342.	<i>Upeneichthys lineatus</i>			
1343.	<i>Upeneichthys stotti</i>			
1344.	<i>Urodacus novaehollandiae</i>			
1345.	8254 <i>Urospermum picroides</i> (False Hawkbit)	Y		
1346.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
1347.	38388 <i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	Y		
1348.	1767 <i>Urtica urens</i> (Small Nettle)	Y		
1349.	<i>Vanacampus poecilolaemus</i>			
1350.	24386 <i>Vanellus tricolor</i> (Banded Lapwing)			
1351.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
1352.	25227 <i>Varanus tristis</i> subsp. <i>tristis</i> (Racehorse Monitor)			
1353.	8257 <i>Vellereophyton dealbatum</i> (White Cudweed)	Y		
1354.	<i>Venator immansueta</i>			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
1355.	<i>Venatrix pullastra</i>			
1356.	7107 <i>Verbascum virgatum</i> (Twiggy Mullein)	Y		
1357.	15725 <i>Verbesina encelioides</i>	Y		
1358.	7108 <i>Veronica arvensis</i> (Wall Speedwell)	Y		
1359.	7111 <i>Veronica persica</i> (Creeping Speedwell)	Y		
1360.	15432 <i>Verticordia densiflora</i> var. <i>densiflora</i>			
1361.	24206 <i>Vespadelus regulus</i> (Southern Forest Bat)			
1362.	4320 <i>Vicia hirsuta</i> (Hairy Vetch)	Y		
1363.	11474 <i>Vicia sativa</i> subsp. <i>nigra</i>	Y		
1364.	27360 <i>Vidalia spiralis</i>			
1365.	4325 <i>Viminaria juncea</i> (Swishbush, Koweda)			
1366.	24040 <i>Vulpes vulpes</i> (Red Fox)	Y		
1367.	722 <i>Vulpia bromoides</i> (Squirrel Tail Fescue)	Y		
1368.	11137 <i>Vulpia fasciculata</i>	Y		
1369.	724 <i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		
1370.	12052 <i>Vulpia myuros</i> forma <i>megalura</i>	Y		
1371.	33101 <i>Vulpia myuros</i> forma <i>myuros</i>	Y		
1372.	<i>Vulpia</i> sp.			
1373.	7384 <i>Wahlenbergia capensis</i> (Cape Bluebell)	Y		
1374.	7389 <i>Wahlenbergia preissii</i>			
1375.	8282 <i>Waitzia suaveolens</i> (Fragrant Waitzia)			
1376.	18118 <i>Watsonia meriana</i> var. <i>meriana</i>	Y		
1377.	6658 <i>Wilsonia backhousei</i> (Narrow-leaf <i>Wilsonia</i> )			
1378.	6659 <i>Wilsonia humilis</i> (Silky <i>Wilsonia</i> )			
1379.	1394 <i>Wurmbea dioica</i> (Early Nancy)			
1380.	12072 <i>Wurmbea dioica</i> subsp. <i>alba</i>			
1381.	1398 <i>Wurmbea monantha</i>			
1382.	28194 <i>Xanthoria parietina</i>			
1383.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
1384.	<i>Xanthorrhoea</i> sp.			
1385.	<i>Xanthosia</i> ? <i>huegelii</i>			Y
1386.	6289 <i>Xanthosia huegelii</i>			
1387.	2331 <i>Xylomelum occidentale</i> (Woody Pear, Djandin)			
1388.	1049 <i>Zantedeschia aethiopica</i> (Arum Lily)	Y		
1389.	<i>Zebraplatys fractivittata</i>			
1390.	<i>Zebrias cancellatus</i>			
1391.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			

**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: 18/11/20 19:19:50

[Summary](#)

[Details](#)

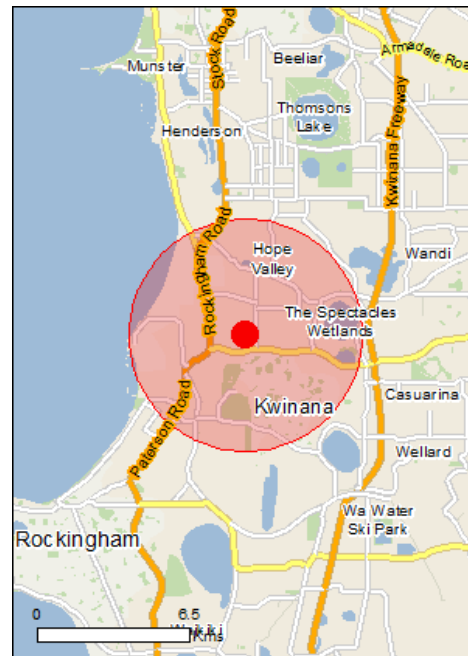
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

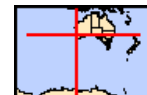
[Acknowledgements](#)



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[Coordinates](#)

Buffer: 5.0Km



# Summary

## Matters of National Environmental Significance

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

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</a>	2
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	3
<a href="#">Listed Threatened Species:</a>	45
<a href="#">Listed Migratory Species:</a>	43

## 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>	67
<a href="#">Whales and Other Cetaceans:</a>	12
<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>	3
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	36
<a href="#">Nationally Important Wetlands:</a>	1
<a href="#">Key Ecological Features (Marine)</a>	None

# Details

## Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)	[ Resource Information ]
Name	Proximity
<a href="#">Forrestdale and thomsons lakes</a>	Within 10km of Ramsar
<a href="#">Peel-yalgorup system</a>	30 - 40km upstream

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="#">Sedgelands in Holocene dune swales of the southern Swan Coastal Plain</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
<b>Birds</b>		
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
<a href="#">Botaurus poiciloptilus</a> Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Calyptorhynchus banksii naso</a> Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Calyptorhynchus latirostris</a> Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
<a href="#">Diomedea amsterdamensis</a> Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<a href="#">Diomedea dabbenena</a> Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or

Name	Status	Type of Presence
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	related behaviour likely to occur within area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Leipoa ocellata</a> Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Limosa lapponica baueri</a> Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Limosa lapponica menzbieri</a> Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	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 likely to occur within area
<a href="#">Pachyptila turtur subantarctica</a> Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<a href="#">Sternula nereis nereis</a> Australian Fairy Tern [82950]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Thalassarche cauta</a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<b>Mammals</b>		
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#">Dasyurus geoffroii</a> Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Eubalaena australis</a> Southern Right Whale [40]	Endangered	Breeding known to occur

Name	Status	Type of Presence
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Neophoca cinerea</a> Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat known 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
<b>Other</b>		
<a href="#">Westralunio carteri</a> Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat likely to occur within area
<b>Plants</b>		
<a href="#">Andersonia gracilis</a> Slender Andersonia [14470]	Endangered	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 micrantha</a> Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat known 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-leaved Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area
<a href="#">Drakaea micrantha</a> 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 may occur within area
<b>Reptiles</b>		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<b>Sharks</b>		
<a href="#">Carcharias taurus (west coast population)</a> Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area

Name	Status	Type of Presence
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
<b>Listed Migratory Species</b>		<b>[ Resource Information ]</b>
* 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="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardenna carneipes</a> Flesh-footed Shearwater, Flesh-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea amsterdamensis</a> Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<a href="#">Diomedea dabbenena</a> Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Hydroprogne caspia</a> Caspian Tern [808]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#">Onychoprion anaethetus</a> Bridled Tern [82845]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thalassarche cauta</a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<b>Migratory Marine Species</b>		
<a href="#">Balaena glacialis australis</a> Southern Right Whale [75529]	Endangered*	Breeding known to occur within area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat may occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#">Caperea marginata</a> Pygmy Right Whale [39]		Species or species habitat may occur within area
<a href="#">Carcharhinus longimanus</a> Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Lamna nasus</a> Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
<a href="#">Manta alfredi</a> Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
<a href="#">Manta birostris</a> Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#">Rhincodon typus</a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
<b>Migratory Wetlands Species</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known 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 canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat likely to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat may 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 [\[ Resource Information \]](#)

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 [\[ Resource Information \]](#)

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

Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area
<a href="#">Anous stolidus</a> Common Noddy [825]		Species or species habitat may occur within area
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area



Name	Threatened	Type of Presence
<a href="#">Ardea alba</a> Great Egret, White Egret [59541]		Breeding known to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		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 canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
<a href="#">Diomedea amsterdamensis</a> Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<a href="#">Diomedea dabbenena</a> Tristan Albatross [6471]	Endangered	Species or species habitat may occur within area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#">Larus pacificus</a> Pacific Gull [811]		Foraging, feeding or related behaviour may occur within area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat likely to occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		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]	Critically Endangered	Species or species

Name	Threatened	Type of Presence
<a href="#">Pachyptila turtur</a> Fairy Prion [1066]		habitat likely to occur within area  Species or species habitat likely to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat may occur within area
<a href="#">Puffinus assimilis</a> Little Shearwater [59363]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Puffinus carneipes</a> Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
<a href="#">Sterna anaethetus</a> Bridled Tern [814]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Sterna caspia</a> Caspian Tern [59467]		Foraging, feeding or related behaviour known to occur within area
<a href="#">Sterna dougallii</a> Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thalassarche cauta</a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thinornis rubricollis</a> Hooded Plover [59510]		Species or species habitat may occur within area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
<b>Fish</b>		
<a href="#">Acentronura australe</a> Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area
<a href="#">Campichthys galei</a> Gale's Pipefish [66191]		Species or species habitat may occur within area
<a href="#">Heraldia nocturna</a> Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within area
<a href="#">Hippocampus angustus</a> Western Spiny Seahorse, Narrow-bellied Seahorse		Species or species

Name	Threatened	Type of Presence
[66234]		habitat may occur within area
<a href="#">Hippocampus breviceps</a>		
Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area
<a href="#">Hippocampus subelongatus</a>		
West Australian Seahorse [66722]		Species or species habitat may occur within area
<a href="#">Histiogamphelus cristatus</a>		
Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]		Species or species habitat may occur within area
<a href="#">Lissocampus caudalis</a>		
Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area
<a href="#">Lissocampus fatiloquus</a>		
Prophet's Pipefish [66250]		Species or species habitat may occur within area
<a href="#">Lissocampus runa</a>		
Javelin Pipefish [66251]		Species or species habitat may occur within area
<a href="#">Maroubra perserrata</a>		
Sawtooth Pipefish [66252]		Species or species habitat may occur within area
<a href="#">Mitotichthys meraculus</a>		
Western Crested Pipefish [66259]		Species or species habitat may occur within area
<a href="#">Nannocampus subosseus</a>		
Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat may occur within area
<a href="#">Phycodurus eques</a>		
Leafy Seadragon [66267]		Species or species habitat may occur within area
<a href="#">Phyllopteryx taeniolatus</a>		
Common Seadragon, Weedy Seadragon [66268]		Species or species habitat may occur within area
<a href="#">Pugnaso curtirostris</a>		
Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area
<a href="#">Solegnathus lettiensis</a>		
Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
<a href="#">Stigmatopora argus</a>		
Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area
<a href="#">Stigmatopora nigra</a>		
Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area
<a href="#">Urocampus carinirostris</a>		
Hairy Pipefish [66282]		Species or species habitat may occur within area
<a href="#">Vanacampus margaritifer</a>		
Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area
<a href="#">Vanacampus phillipi</a>		
Port Phillip Pipefish [66284]		Species or species habitat may occur within

Name	Threatened	Type of Presence
<a href="#">Vanacampus poecilolaemus</a> Longsnout Pipefish, Australian Long-snout Pipefish, Long-snouted Pipefish [66285]		Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#">Arctocephalus forsteri</a> Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within area
<a href="#">Neophoca cinerea</a> Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat known to occur within area
<b>Reptiles</b>		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#">Disteira kingii</a> Spectacled Seasnake [1123]		Species or species habitat may occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<b>Whales and other Cetaceans</b>		<a href="#">[ Resource Information ]</a>
Name	Status	Type of Presence
<b>Mammals</b>		
<a href="#">Balaenoptera acutorostrata</a> Minke Whale [33]		Species or species habitat may occur within area
<a href="#">Balaenoptera edeni</a> Bryde's Whale [35]		Species or species habitat may occur within area
<a href="#">Balaenoptera musculus</a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#">Caperea marginata</a> Pygmy Right Whale [39]		Species or species habitat may occur within area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
<a href="#">Eubalaena australis</a> Southern Right Whale [40]	Endangered	Breeding known to occur within area
<a href="#">Grampus griseus</a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Orcinus orca</a> Killer Whale, Orca [46]		Species or species

Name	Status	Type of Presence
<a href="#">Stenella attenuata</a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		habitat may occur within area  Species or species habitat may occur within area
<a href="#">Tursiops aduncus</a> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area

## Extra Information

State and Territory Reserves	[ Resource Information ]
Name	State
Leda	WA
Unnamed WA39584	WA
Unnamed WA39752	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 within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		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

Name	Status	Type of Presence
<i>Sturnus vulgaris</i> Common Starling [389]		Species or species habitat likely to occur within area
<i>Turdus merula</i> Common Blackbird, Eurasian Blackbird [596]		Species or species habitat likely to occur within area
<b>Mammals</b>		
<i>Bos taurus</i> Domestic Cattle [16]		Species or species habitat likely to occur within area
<i>Canis lupus familiaris</i> Domestic Dog [82654]		Species or species habitat likely to occur within area
<i>Felis catus</i> Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
<i>Funambulus pennantii</i> Northern Palm Squirrel, Five-striped Palm Squirrel [129]		Species or species habitat likely to occur within area
<i>Mus musculus</i> House Mouse [120]		Species or species habitat likely to occur within area
<i>Oryctolagus cuniculus</i> Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
<i>Rattus norvegicus</i> Brown Rat, Norway Rat [83]		Species or species habitat likely to occur within area
<i>Rattus rattus</i> Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
<i>Vulpes vulpes</i> Red Fox, Fox [18]		Species or species habitat likely to occur within area
<b>Plants</b>		
<i>Asparagus asparagoides</i> Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
<i>Brachiaria mutica</i> Para Grass [5879]		Species or species habitat may occur within area
<i>Cenchrus ciliaris</i> Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
<i>Chrysanthemoides monilifera</i> Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
<i>Chrysanthemoides monilifera</i> subsp. <i>monilifera</i> Boneseed [16905]		Species or species habitat likely to occur within area
<i>Genista linifolia</i> Flax-leaved Broom, Mediterranean Broom, Flax Broom [2800]		Species or species habitat likely to occur within area
<i>Genista</i> sp. X <i>Genista monspessulana</i> Broom [67538]		Species or species habitat may occur within

Name	Status	Type of Presence 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
<b>Reptiles</b>		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area

Nationally Important Wetlands		[ Resource Information ]
Name	State	
<a href="#">Spectacles Swamp</a>	WA	

# 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

-32.22178 115.80106



# 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  $\leq 100$ 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  $\leq 200$ 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).

## **APPENDIX 5**

### **DBCA TEC/PEC Database Search**

OCC_UNI QUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	S_ID_COUNT	FIRST_S_ID	LAST_S_ID	BUFFER	BDY_ID	ORIG_FID
1877	SCP26a	Melaleuca huegelii - Melaleuca systema shrublands on limestone ridges (floristic community type 26a as originally described in Gibson et al. (1994))	Endangered		1	ANKETELL01		500	318	211
591	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	5	IP14-07	MYIP14-13	2000	334	219
596	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	IP14-08		2000	335	220
942	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	IP14-01		2000	339	224
598	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	IP14-03		2000	340	225
1908	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	IP14-04		2000	341	226
889	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	5	IP14-09CENTRE	IP14-PLOT3	2000	342	227
888	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	2	IP14-10NORTH	IP14-10SOUTH	2000	343	228
594	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	IP14-02		2000	344	229
593	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	3	IP14 PLOT1	IP14-06	2000	346	231
605	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	COOL15		2000	348	233
603	SCP19b	Woodlands over sedgeland in Holocene dune swales of the southern Swan Coastal Plain (original description; Gibson et al. (1994).	Critically Endangered	Endangered	1	COOL14		2000	349	234
2642	SCP24	Northern Spearwood shrublands and woodlands	Priority 3		2	MTB01	MTB_West	500	1383	1107
3610	SCP24	Northern Spearwood shrublands and woodlands	Priority 3		1	MTB_East		500	1750	1431

OCC_UNI QUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	S_ID_COUNT	FIRST_S_ID	LAST_S_ID	BUFFER	BDY_ID	ORIG_FID
110829	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05111		200	107828	20024
110836	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05118		200	107835	20031
110837	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05119		200	107836	20032
110859	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05141		200	107858	20054
110861	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05143		200	107860	20056
110862	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05144		200	107861	20057
111284	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05566		200	108283	20479
111285	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05567		200	108284	20480
111286	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05568		200	108285	20481
111287	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05569		200	108286	20482
111288	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05570		200	108287	20483
111291	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05573		200	108290	20486
111440	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05722		200	108439	20635
111441	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05723		200	108440	20636
111442	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05724		200	108441	20637
111443	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05725		200	108442	20638
111444	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05726		200	108443	20639
111445	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05727		200	108444	20640
111446	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05728		200	108445	20641



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111538	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05820		200	108537	20733
111586	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05868		200	108585	20781
111587	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05869		200	108586	20782
111588	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05870		200	108587	20783
111589	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05871		200	108588	20784
111625	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05907		200	108624	20820
111626	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05908		200	108625	20821
111627	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05909		200	108626	20822
111628	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld05910		200	108627	20823
111904	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06186		200	108903	21099
111905	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06187		200	108904	21100
111906	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06188		200	108905	21101
111907	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06189		200	108906	21102
111908	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06190		200	108907	21103
111947	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06229		200	108946	21142
111948	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06230		200	108947	21143
111949	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06231		200	108948	21144
111950	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06232		200	108949	21145
112016	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06298		200	109015	21211

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112390	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06672		200	109389	21585
112391	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06673		200	109390	21586
112392	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06674		200	109391	21587
112393	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06675		200	109392	21588
112394	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06676		200	109393	21589
112481	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06763		200	109480	21676
112540	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06822		200	109539	21735
112541	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06823		200	109540	21736
112555	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06837		200	109554	21750
112556	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06838		200	109555	21751
112601	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06883		200	109600	21796
112630	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06912		200	109629	21825
112631	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06913		200	109630	21826
112660	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06942		200	109659	21855
112734	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07016		200	109733	21929
112797	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07079		200	109796	21992
112804	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07086		200	109803	21999
112805	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07087		200	109804	22000
112928	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07210		200	109927	22123

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112929	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07211		200	109928	22124
112930	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07212		200	109929	22125
112931	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07213		200	109930	22126
112943	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07225		200	109942	22138
112944	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07226		200	109943	22139
112945	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07227		200	109944	22140
112946	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07228		200	109945	22141
112948	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07230		200	109947	22143
112978	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07260		200	109977	22173
112979	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07261		200	109978	22174
112980	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07262		200	109979	22175
112987	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07269		200	109986	22182
113015	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07297		200	110014	22210
113046	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07328		200	110045	22239
113047	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07329		200	110046	22240
113083	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07365		200	110082	22276
113110	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07392		200	110109	22303
113124	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld07406		200	110123	22317
116380	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10662		200	113379	25571

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116381	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10663		200	113380	25572
116382	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10664		200	113381	25573
116383	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10665		200	113382	25574
116384	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10666		200	113383	25575
116385	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10667		200	113384	25576
116386	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10668		200	113385	25577
116390	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10672		200	113389	25581
116391	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10673		200	113390	25582
116392	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10674		200	113391	25583
116466	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10748		200	113465	25657
116467	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10749		200	113466	25658
116468	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10750		200	113467	25659
116469	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10751		200	113468	25660
116472	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10754		200	113471	25663
116473	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10755		200	113472	25664
116480	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10762		200	113479	25671
116481	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10763		200	113480	25672
116482	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10764		200	113481	25673
116483	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10765		200	113482	25674

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116484	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10766		200	113483	25675
116485	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10767		200	113484	25676
116486	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10768		200	113485	25677
116487	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10769		200	113486	25678
116573	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10855		200	113572	25764
116574	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10856		200	113573	25765
116575	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10857		200	113574	25766
116576	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10858		200	113575	25767
116577	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10859		200	113576	25768
116578	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10860		200	113577	25769
116579	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10861		200	113578	25770
116580	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10862		200	113579	25771
116581	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10863		200	113580	25772
116582	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10864		200	113581	25773
116583	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10865		200	113582	25774
116584	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10866		200	113583	25775
116585	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10867		200	113584	25776
116586	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10868		200	113585	25777
116587	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10869		200	113586	25778



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116588	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10870		200	113587	25779
116592	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10874		200	113591	25783
116593	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10875		200	113592	25784
116594	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10876		200	113593	25785
116595	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10877		200	113594	25786
116596	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10878		200	113595	25787
116597	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10879		200	113596	25788
116598	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10880		200	113597	25789
116599	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10881		200	113598	25790
116600	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10882		200	113599	25791
116601	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10883		200	113600	25792
116602	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10884		200	113601	25793
116603	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10885		200	113602	25794
116605	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10887		200	113604	25796
116606	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10888		200	113605	25797
116607	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10889		200	113606	25798
116608	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10890		200	113607	25799
116609	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10891		200	113608	25800
116610	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10892		200	113609	25801

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116611	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10893		200	113610	25802
116612	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10894		200	113611	25803
116613	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10895		200	113612	25804
116614	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10896		200	113613	25805
116615	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10897		200	113614	25806
116616	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10898		200	113615	25807
116617	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10899		200	113616	25808
116618	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10900		200	113617	25809
116619	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10901		200	113618	25810
116621	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10903		200	113620	25812
116622	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10904		200	113621	25813
116624	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10906		200	113623	25815
116625	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10907		200	113624	25816
116627	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10909		200	113626	25818
116631	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10913		200	113630	25822
116634	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10916		200	113633	25825
116637	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10919		200	113636	25828
116638	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10920		200	113637	25829
116639	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10921		200	113638	25830

OCC_UNI QUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	S_ID_COUNT	FIRST_S_ID	LAST_S_ID	BUFFER	BDY_ID	ORIG_FID
116640	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10922		200	113639	25831
116641	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10923		200	113640	25832
116642	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10924		200	113641	25833
116643	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10925		200	113642	25834
116644	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10926		200	113643	25835
116646	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10928		200	113645	25837
116647	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10929		200	113646	25838
116648	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10930		200	113647	25839
116649	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10931		200	113648	25840
116650	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10932		200	113649	25841
116651	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10933		200	113650	25842
116652	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10934		200	113651	25843
116653	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10935		200	113652	25844
116654	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10936		200	113653	25845
116655	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10937		200	113654	25846
125345	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0244		500	122414	120663
125346	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0245		500	122415	120664

OCC_UNI QUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	S_ID_COUNT	FIRST_S_ID	LAST_S_ID	BUFFER	BDY_ID	ORIG_FID
125347	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0246		500	122416	120665
125348	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0247		500	122417	120666
125349	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0248		500	122418	120667
125350	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0249		500	122419	120668
125351	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0250		500	122420	120669
125352	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0251		500	122421	120670
125353	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0252		500	122422	120671
125354	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0253		500	122423	120672
125356	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0255		500	122425	120674
125505	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0404		500	122574	120823
125925	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0824		500	122994	121243
125926	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0825		500	122995	121244

OCC_UNI QUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	S_ID_COUNT	FIRST_S_ID	LAST_S_ID	BUFFER	BDY_ID	ORIG_FID
125928	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0827		500	122997	121246
125929	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0828		500	122998	121247
125930	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0829		500	122999	121248
126008	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0907		500	123077	121326
126009	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0908		500	123078	121327
126010	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0909		500	123079	121328
126011	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0910		500	123080	121329
126012	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0911		500	123081	121330
126013	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0912		500	123082	121331
126014	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0913		500	123083	121332
126015	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0914		500	123084	121333
126016	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0915		500	123085	121334



OCC_UNI QUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	S_ID_COUNT	FIRST_S_ID	LAST_S_ID	BUFFER	BDY_ID	ORIG_FID
126017	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0916		500	123086	121335
126018	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0917		500	123087	121336
126019	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0918		500	123088	121337
126020	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0919		500	123089	121338
126021	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0920		500	123090	121339
126022	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0921		500	123091	121340
126023	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0922		500	123092	121341
126024	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0923		500	123093	121342
126025	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0924		500	123094	121343
126026	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0925		500	123095	121344
126027	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0926		500	123096	121345
126028	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0927		500	123097	121346

OCC_UNI QUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	S_ID_COUNT	FIRST_S_ID	LAST_S_ID	BUFFER	BDY_ID	ORIG_FID
126029	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld0928		500	123098	121347
126156	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1055		500	123225	121474
126157	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1056		500	123226	121475
126158	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1057		500	123227	121476
126159	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1058		500	123228	121477
126160	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1059		500	123229	121478
126161	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1060		500	123230	121479
126162	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1061		500	123231	121480
126163	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1062		500	123232	121481
126164	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1063		500	123233	121482
126165	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1064		500	123234	121483
126166	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1065		500	123235	121484

OCC_UNI QUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	S_ID_COUNT	FIRST_S_ID	LAST_S_ID	BUFFER	BDY_ID	ORIG_FID
126167	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1066		500	123236	121485
126168	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1067		500	123237	121486
126169	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1068		500	123238	121487
126170	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1069		500	123239	121488
126171	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1070		500	123240	121489
126172	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1071		500	123241	121490
126173	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1072		500	123242	121491
126174	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1073		500	123243	121492
126175	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1074		500	123244	121493
126176	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1075		500	123245	121494
126177	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1076		500	123246	121495
126178	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1077		500	123247	121496

OCC_UNIQUE	COM_ID	COM_NAME	STATE_CATG	COMM_CATG	S_ID_COUNT	FIRST_S_ID	LAST_S_ID	BUFFER	BDY_ID	ORIG_FID
126179	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1078		500	123248	121497
126180	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1079		500	123249	121498
126181	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1080		500	123250	121499
126182	Tuart woodlands	Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain	Priority 3	Critically Endangered	1	TuartWld1081		500	123251	121500
112554	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld06836		200	109553	21749
116589	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10871		200	113588	25780
116604	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10886		200	113603	25795
116620	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10902		200	113619	25811
116623	Banksia WL SCP	Banksia Dominated Woodlands of the Swan Coastal Plain IBRA Region	Priority 3	Endangered	1	BanksiaWld10905		200	113622	25814
3118	SCP25	Southern Eucalyptus gomphocephala-Agonis flexuosa woodlands	Priority 3		1	SEW4		200	0	617
3119	SCP25	Southern Eucalyptus gomphocephala-Agonis flexuosa woodlands	Priority 3		1	SEW5		200	0	618

**APPENDIX 6**  
**Flora Species List**



**SPECIES LIST – M70/656 Abercrombie Road, Postans**

**GYMNOSPERMS**

CYCADACEAE

*Macrozamia riedlei*

**MONOCOTYLEDONS**

ANARTHRIACEAE

*Lyginia barbata*

ASPARAGACEAE

\**Asparagus asparagoides*

*Chamaescilla corymbosa*

*Dichopogon capillipes*

*Lomandra hermaphrodita*

*Lomandra caespitosa*

*Lomandra maritima*

*Lomandra suaveolens*

*Sowerbaea laxiflora*

*Thysanotus patersonii*

*Thysanotus sparteus*

ASPHODELACEAE

\**Trachyandra divaricata*

COLCHICACEAE

*Burchardia congesta*

CYPERACEAE

*Chaetospora curvifolia*

*Lepidosperma leptostachyum*

*Lepidosperma pubisquameum*

*Lepidosperma scabrum*

*Mesomelaena pseudostygia*

*Schoenus grandiflorus*

*Schoenus latitans/clandestinus*

HAEMODORACEAE

*Anigozanthos manglesii*

*Conostylis aculeata* subsp. *aculeata*

HEMEROCALLIDACEAE

*Corynotheca micrantha*

*Dianella revoluta* var. *divaricata*

*Tricoryne elatior*

IRIDACEAE

\**Freesia alba x leichtlinii*

\**Gladiolus caryophyllaceus*

\**Moraea flaccida*

ORCHIDACEAE

*Caladenia flava*

*Caladenia latifolia*

*Microtis media*

*Pterostylis vittata*

POACEAE

\**Avena fatua*

\**Briza maxima*

\**Cenchrus setaceus*

\**Ehrharta calycina*

\**Lagurus ovatus*

\**Lolium perenne*

RESTIONACEAE

*Desmocladus flexuosus*

XANTHORRHOEACEAE

*Xanthorrhoea preissii*

**DICOTYLEDONS**

AIZOACEAE

\**Carpobrotus edulis*

AMARANTHACEAE

*Ptilotus drummondii*

*Ptilotus polystachyus*

ARALIACEAE

*Trachymene pilosa*

ASTERACEAE

\**Arctotheca calendula*

\**Hypochaeris glabra*

*Podolepis gracilis*

*Senecio condylus*

*Senecio pinnatifolius*

\**Sonchus oleraceus*

\**Urospermum picroides*

\**Ursinia anthemoides*

#### BRASSICACEAE

\**Raphanus raphanistrum*

#### CARYOPHYLLACEAE

\**Cerastium glomeratum*

\**Petrorhagia dubia*

#### CASUARINACEAE

*Allocasuarina fraseriana*

*Allocasuarina humilis*

#### CRASSULACEAE

*Crassula colorata*

\**Crassula glomerata*

#### DILLENACEAE

*Hibbertia hypericoides*

*Hibbertia subvaginata*

*Hibbertia vaginata*

#### DROSERACEAE

*Drosera erythrorhiza*

*Drosera glanduligera*

*Drosera stolonifera*

#### ERICACEAE

*Leucopogon propinquus*

#### EUPHORBIACEAE

\**Euphorbia peplus*

\**Euphorbia terracina*

#### FABACEAE

*Acacia pulchella*

*Acacia rostellifera*

*Acacia xanthina*

*Daviesia triflora*

*Gompholobium tomentosum*

*Hardenbergia comptoniana*

*Hovea pungens*

*Isotropis cuneifolia*

*Jacksonia furcellata*

*Kennedia prostrata*

\**Lupinus cosentinii*

\**Melilotus indicus*

\**Trifolium campestre*

#### FUMARIACEAE

\**Fumaria capreolata*

#### GERANIACEAE

\**Erodium moschatum*

#### MYRTACEAE

*Eucalyptus gomphocephala*

*Eucalyptus marginata*

#### OROBANCHACEAE

\**Parentucellia latifolia*

\**Parentucellia viscosa*

#### OXALIDACEAE

\**Oxalis pes-caprae*

#### PHYLLANTHACEAE

*Phyllanthus calycinus*

#### PRIMULACEAE

\**Lysimachia arvensis*

#### PROTEACEAE

*Banksia attenuata*

*Banksia grandis*

*Banksia dallanneyi*

*Banksia ilicifolia*

*Banksia menziesii*

*Banksia sessilis*

*Conospermum triplinervium*

*Grevillea preissii*

*Grevillea vestita*

*Hakea lissocarpha*

#### RANUNCULACEAE

*Clematis linearifolia*

RHAMNACEAE

*Spyridium globulosum*

RUBIACEAE

\**Galium murale*

*Opercularia vaginata*

SCROPHULARIACEAE

\**Dischisma arenarium*

SOLANACEAE

\**Solanum nigrum*

VALERIANACEAE

\**Centranthus macrosiphon*

VIOLACEAE

*Hybanthus calycinus*

# **APPENDIX 7**

## **Quadrat Data**

## QUADRAT AR 1

50 386971 E 6434111 N

**Vegetation:** *Acacia rostellifera* Closed Heath over weeds  
**Condition:** Good  
**Soil Type:** Orange-brown sand with some surface limestone  
**Landform:** Flat  
**Date:** 13.9.20  
**Recorder:** Paul van der Moezel



### QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Xanthorrhoea preissii</i>	1.7	1
<i>Acacia rostellifera</i>	1.5	75
<i>Acacia pulchella</i>	0.8	2
* <i>Ehrharta calycina</i>	0.7	50
* <i>Avena fatua</i>	0.5	<1
<i>Leucopogon propinquus</i>	0.4	<1
<i>Macrozamia riedlei</i>	0.4	<1
* <i>Briza maxima</i>	0.3	20
* <i>Lagurus ovatus</i>	0.2	10
* <i>Lysimachia arvensis</i>	0.2	1
* <i>Raphanus raphanistrum</i>	0.2	<1
<i>Conostylis aculeata</i>	0.2	<1
* <i>Centranthus macrosiphon</i>	0.1	5
* <i>Cerastium glomeratum</i>	0.1	1
* <i>Urospermum picroides</i>	0.1	<1
* <i>Sonchus oleraceus</i>	0.1	<1
* <i>Euphorbia peplus</i>	<0.1	1
* <i>Galium murale</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	1



<b>SPECIES</b>	<b>HEIGHT (m)</b>	<b>COVER (%)</b>
<i>Hardenbergia comptoniana</i>	Climber	<1
<i>Clematis linearifolia</i>	Climber	<1

\* introduced species

## QUADRAT AR 2

50 386911 E 6434193N

**Vegetation:** *Eucalyptus gomphocephala* Low Open Woodland over *Banksia attenuata*/*Allocasuarina fraseriana* Low Open Woodland over *Acacia pulchella*/*Xanthorrhoea preissii* Open Low Heath

**Condition:** Good

**Soil Type:** Orange-brown sand

**Landform:** Gentle slope down to the south

**Date:** 13.9.20

**Recorder:** Paul van der Moezel



### QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus gomphocephala</i>	10	5
<i>Banksia attenuata</i>	2.2	2
<i>Acacia pulchella</i>	1	20
<i>Xanthorrhoea preissii</i>	1	5
<i>Macrozamia riedlei</i>	0.9	1
* <i>Ehrharta calycina</i>	0.8	25
* <i>Gladiolus caryophyllaceus</i>	0.6	<1
* <i>Euphorbia terracina</i>	0.4	<1
<i>Conostylis aculeata</i>	0.3	4
<i>Desmodium flexuosus</i>	0.3	1
<i>Sowerbaea laxiflora</i>	0.3	<1
* <i>Briza maxima</i>	0.2	5
<i>Hibbertia subvaginata</i>	0.2	<1
* <i>Euphorbia peplus</i>	0.1	2
* <i>Ursinia anthemoides</i>	0.1	1
<i>Hybanthus calycinus</i>	0.1	<1

<b>SPECIES</b>	<b>HEIGHT (m)</b>	<b>COVER (%)</b>
<i>*Sonchus oleraceus</i>	0.1	<1
<i>*Urospermum picroides</i>	0.1	<1
<i>*Carpobrotus edulis</i>	0.1	<1
<i>*Lagurus ovatus</i>	0.1	<1
<i>*Petrohragia dubia</i>	0.1	<1
<i>*Lysimachia arvensis</i>	0.1	<1
<i>*Trifolium campestre</i>	0.1	<1
<i>*Crassula glomerata</i>	<0.1	<1
<i>*Dischisma capitatum</i>	<0.1	<1
<i>Crassula colorata</i>	<0.1	<1
<i>*Hypochaeris glabra</i>	Flat	1
<i>Hardenbergia comptoniana</i>	Climber	<1

\* introduced species

### QUADRAT AR 3

50 387141 E 6434206 N

**Vegetation:** *Eucalyptus marginata*/*Banksia attenuata* Low Woodland over  
*Xanthorrhoea preissii* Open Low Heath

**Condition:** Very Good

**Soil Type:** Orange-brown sand

**Landform:** Gentle slope down to the south

**Date:** 13.9.20

**Recorder:** Paul van der Moezel



Quadrat (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus marginata</i>	8	5
<i>Banksia attenuata</i>	2.5	10
<i>Xanthorrhoea preissii</i>	1.1	20
<i>Macrozamia riedlei</i>	1	1
* <i>Ehrharta calycina</i>	0.8	10
* <i>Gladiolus caryophyllaceus</i>	0.7	<1
<i>Leucopogon propinquus</i>	0.4	1
<i>Lyginia barbata</i>	0.4	1
<i>Sowerbaea laxiflora</i>	0.4	<1
<i>Burchardia congesta</i>	0.4	<1
<i>Lepidosperma pubisquamum</i>	0.4	<1
<i>Conostylis aculeata</i>	0.3	5
<i>Chamaescilla corymbosa</i>	0.3	<1
<i>Drosera stolonifera</i>	0.3	<1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.3	<1
* <i>Briza maxima</i>	0.2	5
* <i>Ursinia anthemoides</i>	0.2	1
* <i>Ehrharta longiflora</i>	0.2	1

<i>*Trifolium campestre</i>	0.1	10
<i>Caladenia flava</i>	0.1	<1
<i>*Lysimachia arvensis</i>	0.1	<1
<i>*Parentucellia viscosa</i>	0.1	<1
<i>*Petrohragia dubia</i>	<0.1	1
<i>Crassula colorata</i>	<0.1	<1
<i>*Hypochaeris glabra</i>	Flat	1
<i>Drosera erythrorhiza</i>	Flat	1
<i>Hardenbergia comptoniana</i>	Climber	2

\* introduced species

## QUADRAT AR 4

50 387150 E 6434420 N

**Vegetation:** *Acacia rostellifera* Tall Open Scrub over weeds  
**Condition:** Good  
**Soil Type:** Orange-brown sand with some surface limestone  
**Landform:** Sloping down to the east  
**Date:** 13.9.20  
**Recorder:** Paul van der Moezel



### QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Acacia rostellifera</i>	2	50
<i>Xanthorrhoea preissii</i>	1.6	1
<i>Macrozamia riedlei</i>	1.1	1
<i>Banksia sessilis</i>	0.6	<1
* <i>Ehrharta calycina</i>	0.5	10
<i>Grevillea vestita</i>	0.5	4
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.4	1
<i>Conostylis aculeata</i>	0.3	5
* <i>Sonchus oleraceus</i>	0.3	<1
* <i>Ehrharta longiflora</i>	0.2	20
* <i>Briza maxima</i>	0.2	10
* <i>Euphorbia terracina</i>	0.2	<1
* <i>Parentucellia viscosa</i>	0.2	<1
* <i>Euphorbia peplus</i>	0.1	5
* <i>Petrohragia dubia</i>	0.1	1
* <i>Urospermum picroides</i>	0.1	1
* <i>Trifolium campestre</i>	0.1	<1
* <i>Cerastium glomeratum</i>	0.1	<1
* <i>Galium murale</i>	<0.1	5



<b>SPECIES</b>	<b>HEIGHT (m)</b>	<b>COVER (%)</b>
<i>*Lysimachia arvensis</i>	<0.1	1
<i>*Hypochaeris glabra</i>	Flat	1
<i>Thysanotus patersonii</i>	Climber	<1
<i>Hardenbergia comptoniana</i>	Climber	<1

\* introduced species

## QUADRAT AR 5

50 387115 E 6434517 N

**Vegetation:** *Eucalyptus marginata*/*Banksia attenuata* Low Open Woodland over  
*Xanthorrhoea preissii* Open Low Heath

**Condition:** Good

**Soil Type:** Orange-brown sand

**Landform:** Flat

**Date:** 13.9.20

**Recorder:** Paul van der Moezel



### QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus marginata</i>	8	10
<i>Banksia attenuata</i>	4	2
<i>Xanthorrhoea preissii</i>	1.5	20
<i>Macrozamia riedlei</i>	1.1	1
<i>Dianella revoluta</i> var. <i>divaricata</i>	0.5	<1
* <i>Ehrharta calycina</i>	0.4	20
* <i>Gladiolus caryophyllaceus</i>	0.4	<1
<i>Conostylis aculeata</i>	0.3	1
<i>Burchardia congesta</i>	0.3	<1
* <i>Lolium perenne</i>	0.3	<1
<i>Drosera stolonifera</i>	0.2	<1
* <i>Trifolium campestre</i>	0.1	20
* <i>Lysimachia arvensis</i>	0.1	2
* <i>Urospermum picroides</i>	0.1	<1
<i>Caladenia flava</i>	0.1	<1
* <i>Crassula glomerata</i>	<0.1	<1
<i>Crassula colorata</i>	<0.1	<1
* <i>Hypochaeris glabra</i>	Flat	1

<b>SPECIES</b>	<b>HEIGHT (m)</b>	<b>COVER (%)</b>
<i>Drosera erythrorhiza</i>	Flat	<1
<i>Hardenbergia comptoniana</i>	Climber	<1

\* introduced species

## QUADRAT AR 6

50 386885 E 6434350 N

**Vegetation:** *Eucalyptus gomphocephala* Low Open Woodland over *Banksia attenuata* Low Open Woodland over *Grevillea vestita*/*Xanthorrhoea preissii* Open Low Heath

**Condition:** Good

**Soil Type:** Orange-brown sand

**Landform:** Flat

**Date:** 13.9.20

**Recorder:** Paul van der Moezel



### QUADRAT (10 x 10m)

SPECIES	HEIGHT (m)	COVER (%)
<i>Eucalyptus gomphocephala</i>	8	10
<i>Banksia attenuata</i>	1.9	2
<i>Xanthorrhoea preissii</i>	1.8	5
<i>Grevillea vestita</i>	1.5	20
<i>Macrozamia riedlei</i>	1	1
* <i>Ehrharta calycina</i>	0.8	10
* <i>Gladiolus caryophyllaceus</i>	0.8	<1
<i>Hibbertia subvaginata</i>	0.6	<1
<i>Acacia pulchella</i>	0.4	<1
<i>Burchardia congesta</i>	0.4	<1
* <i>Ehrharta longiflora</i>	0.3	10
<i>Conostylis aculeata</i>	0.3	10
* <i>Lagurus ovatus</i>	0.3	5
* <i>Trachyandra divaricata</i>	0.3	2
* <i>Briza maxima</i>	0.2	20
* <i>Urospermum picroides</i>	0.2	1

<b>SPECIES</b>	<b>HEIGHT (m)</b>	<b>COVER (%)</b>
* <i>Cerastium glomeratum</i>	0.2	1
* <i>Euphorbia terracina</i>	0.2	<1
* <i>Trifolium campestre</i>	0.1	10
* <i>Melilotus indicus</i>	0.1	5
* <i>Lysimachia arvensis</i>	0.1	1
<i>Kennedia prostrata</i>	0.1	<1
* <i>Euphorbia peplus</i>	0.1	<1
* <i>Romulea rosea</i>	0.1	<1
* <i>Hypochaeris glabra</i>	Flat	2
* <i>Asparagus asparagoides</i>	Climber	<1
<i>Hardenbergia comptoniana</i>	Climber	<1

\* introduced species