# LOT 13 HORTON ROAD THE LAKES

# FLORA, VEGETATION AND BLACK COCKATOO HABITAT ASSESSMENT

Prepared for: B&J Catalano

Report Date: 20 November 2019

Version: 1

Report No. 2019-464



# **CONTENTS**

Co	nt	ents			. i		
Lis	st c	of Att	achn	nents	iii		
1		INTRODUCTION					
	1.3	1	Back	ground	1		
	1.2	2	Scop	pe of Works	1		
2		EXIS	TING	ENVIRONMENT	2		
	2.3	1	Land	d Use	2		
		2.1.1	1	Historical Land Use	2		
		2.1.2	2	Current Land Use	2		
		2.1.3	3	Surrounding Land Use	2		
	2.2	2	Тор	ography	2		
	2.3	3	Geo	logy and Soils	2		
		2.3.1	1	Geology	2		
		2.3.2	2	Soils	3		
	2.4	4	Hyd	rology	3		
3		FLOF	RA AI	ND VEGETATION	4		
	3.3	1	Met	hodology	4		
		3.1.1	l	Desktop Searches	4		
		3.1.2	2	Site Survey	4		
		3.1.3	3	Survey Conditions	4		
	3.2	2	Desl	ctop Studies	5		
		3.2.2	1	Flora Database Searches	5		
		3.2.2	2	TEC/PEC Database Searches	6		
	3.3	3	Surv	ey Results	6		
		3.3.2	1	Vegetation Condition	6		
		3.3.2	2	Vegetation	7		
		3.3.3	3	Flora	8		
	3.4	4	Cons	servation Significance of Flora and Vegetation	8		
		3.4.1	1	Vegetation	8		
		3.4.2	2	Flora	8		
4		BLA(	CK CC	OCKATOO HABITAT ASSESSMENT	9		
	4.1	1	Blac	k Cockatoo Species	9		

	4.1.	1 Carnaby's Black Cockatoo ( <i>Calyptorhynchus latirostris</i> )	9
	4.1.	Baudin's Black Cockatoo ( <i>Calyptorhynchus baudinii</i> )	9
	4.1.	Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)	9
	4.2	Habitat Survey	9
	4.3	Habitat definitions	10
	4.4	Foraging	10
	4.5	Roosting	
	4.6	Breeding	
	4.7	Regional Context	11
	4.8	EPBC Act Significant Impact Guidelines 1.1	11
	4.9	Black Cockatoo Referral Guidelines	15
5	SUM	1MARY AND CONCLUSIONS	18
	5.1	Flora and Vegetation	18
	5.2	Black Cockatoo Habitat	
	5.3	Conclusion	
6		ERENCES	
_			

#### LIST OF ATTACHMENTS

#### **Tables**

Table 1: Statement of Botanical Survey Conditions

Table 2: Conservation Significant Flora Identified in Database Searches

Table 3: Vegetation Condition Rating Scale

Table 4: Foraging Species for Carnaby's Black Cockatoos Recorded on the Site

#### **Plates**

Plate 1: Aerial Photography from 2019 (Landgate, 2019)

Plate 2: Trees burnt by May 2019 fire

Plate 3: Carnaby's Black Cockatoo Foraging on Marri

#### **Figures**

Figure 1: Site Location

Figure 2: Site Boundary and Topography

Figure 3: Significant Trees

Figure 4: Regional Context

#### **Appendices**

Appendix 1: Naturemap Report

Appendix 2: Protected Matters Search Tool Report

Appendix 3: Conservation Codes

Appendix 4: Significant Tree Data

#### 1 INTRODUCTION

#### 1.1 Background

Lot 13 Horton Road, The Lakes is located in the Shire of Northam approximately 50km east-north-east of the Perth Central Business District (Figure 1). The lot contains an area in the south-eastern corner that is proposed to be mined for gravel (Figure 2). The area proposed for mining is hereafter referred to as the site.

PGV Environmental was commissioned by B&J Catalano to undertake a Flora, Vegetation and Black Cockatoo Habitat Assessment of the site.

#### **1.2** Scope of Works

The Flora and Vegetation Survey was a Detailed Flora and Vegetation Survey in accordance with the *EPA Technical Guidance: Flora and Vegetation Surveys* (EPA, 2016). The survey included the following:

- Desktop search and review of the Department of Biodiversity, Conservation and Attractions (DBCA) Naturemap database;
- A search of 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;
- 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.

The Black Cockatoo Habitat Assessment was undertaken to:

- Describe the Black Cockatoo habitat on the site;
- Determine the impact of potential development on Black Cockatoos if the site was to be cleared; and
- Assess the clearing in the context of the significance of the impact on Black Cockatoos.

#### 2 EXISTING ENVIRONMENT

#### 2.1 Land Use

#### 2.1.1 Historical Land Use

Examination of historical aerial photography shows the site was covered in native vegetation up until the early 1980s after which the site was mostly cleared presumably for grazing purposes. Stands of native trees and individual trees in the cleared paddocks have been retained on the site since the initial clearing (Plate 1).



Plate 1: Aerial Photography from 2019 (Landgate, 2019)

#### 2.1.2 Current Land Use

The site is currently not used for grazing.

#### 2.1.3 Surrounding Land Use

The site is bounded a creek to the north-east and partially cleared rural land to the west and south.

### 2.2 Topography

The site slopes down from a high point at around 293m AHD in the south-west corner down towards the creekline along the north-east boundary at an elevation of around 274 to 280 mAHD (Figure 2).

# 2.3 Geology and Soils

#### 2.3.1 Geology

Geologically the western side of the Shire of Northam consists of laterites of the Darling Scarp overlying granites of the Yilgarn Block. The Northam-York District consists of Archaean granites, gneisses and migmites with some meta-sediments and volcanic areas (McArthur, 1991).

#### 2.3.2 Soils

The soil on the site has been mapped and described in the Yalanbee Subsystem (Ya) as 253WnYa which is described as residual plateau at the top of the landscape shallowly dissected by Pindalup valleys. The soil is pisolitic gravelly, yellowish brown soils that vary from loamy sands to clays, with pockets of pale sands and areas of outcropping laterite (DPIRD, 2019).

# 2.4 Hydrology

Groundwater is at depth and there are no surface expressions of groundwater on the site (DWER, 2019). There are no wetlands or water courses on the site. A creekline runs along the north-eastern part of the site towards a dam immediately north of the lot boundary.

#### 3 FLORA AND VEGETATION

# 3.1 Methodology

#### 3.1.1 Desktop Searches

Searches of the following databases were undertaken prior to the site survey:

- DBCA Naturemap Database for a radius of 10km; 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.* A radius of 5km was used for this database.

#### 3.1.2 Site Survey

A flora and vegetation survey of the site was conducted by Dr Paul van der Moezel on 4 September 2019 in accordance with *Technical Guidance: Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA, 2016). The survey included a thorough walk over the area.

No quadrats were sampled due to the absence of any intact native vegetation on the site.

#### 3.1.3 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 on the Swan Coastal Plain.
Proportion of the flora identified^	No	The timing of the survey in early September was optimal to record most of the native species.
Sources of information (historic/recent or new data)	No	The flora of the Perth Hills area is fairly well documented.
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. 2019 was an average year for ephemeral species.
Disturbances (Fire)	No	The fire age of the vegetation was less than 5 years however due to the absence of intact native understorey the fire age was not a constraint to the survey.
Intensity of survey (e.g. In retrospect was the intensity adequate)	No	Approximately 4 hours spent on the site which was longer than needed for the

Issue	Constraints (Y/N)*	Comment
Completeness (e.g. was relevant area fully surveyed)	No	flora survey but included the Black Cockatoo habitat survey as well.
Resources (e.g. degree of expertise	No	,
available for plant identification)	,,,,	No plant identifications needed
Remoteness and/or access problems	No	Accessible site close to Perth.
Availability of contextual (e.g.		
bioregional) information for the study	No	Beard Vegetation Mapping
area.		

<sup>\*</sup>Constraints have been rated as Significant, Moderate or No constraints

# 3.2 Desktop Studies

#### 3.2.1 Flora Database Searches

A search of the DBCA Naturemap database (Appendix 1) (DBCA, 2019) indicates that a number of species that are listed as Endangered, Threatened or Priority are identified as being recorded within 10km of the site. The EPBC Act Protected Matter's Search Tool (Appendix 2) indicates species that potentially have habitat within 5km of the site. The results from these database searches are shown in Table 2.

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

Species	Common Name	Conservation Status in WA	Status Under EPBC Act 1999
Thelymitra dedmaniarum	Cinnamon Sun-orchid	Schedule 1	Endangered
Diplolaena andrewsii	Native Wild Rose	Schedule 2	Endangered
Diuris purdiei	Purdie's Donkey-orchid	Schedule 2	Endangered
Thelymitra stellata	Star Sun-orchid	Schedule 2	Endangered
Acacia aphylla	Leafless Rock Wattle	Schedule 3	Vulnerable
Anthocercis gracilis	Slender Tailflower	Schedule 3	Vulnerable
Diuris micrantha	Dwarf Bee-orchid	Schedule 3	Vulnerable
Senecio gilbertii		Priority 1	
Cyanicula ixioides subsp. candida		Priority 2	
Adenanthos cygnorum subsp.		Priority 3	
Meionectes tenuifolia		Priority 3	
Synaphea diabolica		Priority 3	
Tetratheca pilifera		Priority 3	
Thysanotus cymosus		Priority 3	
Cyanicula ixioides subsp. ixioides		Priority 4	
Daviesia oxylobium		Priority 4	
Grevillea pimeleoides		Priority 4	
Hibbertia montana		Priority 4	
Trithuria australis		Priority 4	

Definitions of the Conservation Codes are in Appendix 3.

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

#### 3.2.2 TEC/PEC Database Searches

A search of DBCA's Threatened (TEC) and Priority Ecological Communities (PEC) database was conducted within a radius of 5km around the site using the National Map database. There were no TECs or PECs mapped within 5km of the site (National Map, 2019).

### 3.3 Survey Results

#### 3.3.1 Vegetation Condition

The condition of the vegetation was assessed according to the system devised by Keighery and described in Bush Forever (Government of Western Australia, 2000) (Table 3).

Table 3: Vegetation Condition Rating Scale.

Condition	Description
Pristine	Pristine or nearly so, no obvious signs of disturbance.
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.
Very Good	Vegetation structure altered, obvious signs of disturbance. For example, disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, partial clearing, dieback and grazing.
Degraded	Basic vegetation structure severe y impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management.  For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
Completely Degraded	The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.

Source: Government of Western Australia, 2000.

The site contains stands of trees over weeds and does not contain any areas of intact native vegetation. As a result, the native vegetation condition is rated as Completely Degraded over the whole site

The site was severely burnt in May 2019 (Plate 2). The fire has not impacted on the presence or condition of any native understorey vegetation as it was absent before the fire.



Plate 2: Trees burnt by May 2019 fire

#### 3.3.2 Vegetation

**Vegetation Complexes** 

Vegetation Complexes are a broad level of vegetation description which is based on the underlying geomorphology and rainfall. The vegetation on the site is part of the Murray 2 Complex which is on the Darling Plateau (National Map, 2019). The complex is described as:

Open forest of Eucalyptus marginata subsp. thalassica-Corymbia calophylla-Eucalyptus patens and woodland of Eucalyptus wandoo with some Eucalyptus accedens on valley slopes to woodland of Eucalyptus rudis-Melaleuca rhaphiophylla on the valley floors in semiarid and arid zones (Shepherd et al., 2001).

There is a small area in the southern part of the site that is mapped in the Yalanbee, Y5 complex which is:

Mixture of open forest of Eucalyptus marginata subsp. thalassica-Corymbia calophylla and woodland of Eucalyptus wandoo on lateritic uplands in semiarid to perarid zones (Shepherd et al., 2001).

The vegetation on the site is mapped as Medium Forest Jarrah Marri e2,3Mc (Heddle et al. 1980).

The remnant trees on the site are not considered representative of any intact vegetation complexes.

#### Vegetation Type

No intact native vegetation occurs on the site. The remnant trees on the site are predominantly Marri (*Corymbia calophylla*) and a few scattered Jarrah (*Eucalyptus marginata*) with two Wandoo trees (*Eucalyptus wandoo*) close to the creekline. The only other native species recorded on the site was Harsh Hakea (*Hakea prostrata*).

#### 3.3.3 Flora

Only four native plant species were recorded on the site, Marri (*Corymbia calophylla*), Jarrah (*Eucalyptus marginata*), Wandoo (*Eucalyptus wandoo*) and Harsh Hakea (*Hakea prostrata*).

# 3.4 Conservation Significance of Flora and Vegetation

#### 3.4.1 Vegetation

The site is completely devoid of intact native vegetation. Therefore, there is no Conservation Significant vegetation on the site such as a Threatened or Priority Ecological Communities or poorly represented Vegetation Complexes.

#### 3.4.2 Flora

No Conservation Significant species in the database searches were recorded on the site or are likely to occur due to the Completely Degraded condition of the site.

#### 4 BLACK COCKATOO HABITAT ASSESSMENT

#### 4.1 Black Cockatoo Species

#### 4.1.1 Carnaby's Black Cockatoo (Calyptorhynchus latirostris)

Carnaby's Black Cockatoo is found in the south-west of Australia from Kalbarri through to Ravensthorpe. It has a preference for feeding on the seeds of *Banksia*, *Hakea*, *Eucalyptus*, *Grevillea*, *Pinus* and *Allocasuarina* spp. It is nomadic, often moving toward the coast after breeding. It breeds in tree hollows that are 2.5 – 12m above the ground and have an entrance of 23-30cm with a depth of 1-2.5m. Nesting mostly occurs in smooth-barked trees (e.g. Salmon Gum, Wandoo, Red Morrell). Eggs are laid from July to October, with incubation lasting 29 days (DoE, 2014).

The site is inside the boundary of the modelled distribution for Carnaby's Black Cockatoos (SEWPaC, 2012). The site is shown as being within an unconfirmed breeding area but is not within a confirmed breeding area (National Map, 2019).

#### 4.1.2 Baudin's Black Cockatoo (Calyptorhynchus baudinii)

Baudin's Black Cockatoo is most common in the far south-west of Western Australia. It is known to breed from the southern forests north to Collie and east to near Kojonup. Baudin's Black Cockatoo is typically found in vagrant flocks and utilises the taller, more open Jarrah (*Eucalyptus marginata*) and Marri (*Corymbia calophylla*) woodlands where it feeds mainly on Marri seeds and various Proteaceous species (Johnstone, Johnstone and Kirkby, 2011).

The site is inside the modelled 'Known Foraging Area' distribution for Baudin's Black Cockatoos (SEWPaC, 2012).

#### 4.1.3 Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso)

Forest Red-tailed Black Cockatoos are endemic to the humid to sub-humid south-west of Western Australia (SEWPaC, 2012). The range of Forest Red-tailed Black Cockatoos is bound by Gingin in the north to Mt Helena, Christmas Tree Well, West Dale, North Bannister, Mt Saddleback, Kojonup, Rocky Gully, upper King River and Green Range (east of Albany) (SEWPaC, 2012; DoE, 2014). It nests in tree hollows with a depth of 1-5m, that are predominately Marri, Jarrah and Karri (*E. diversicolor*) and it feeds primarily on the seeds of Marri and Jarrah (Johnstone, Johnstone and Kirkby, 2011).

The site is inside the modelled distribution for Forest Red-tailed Black Cockatoos (SEWPaC, 2012).

#### 4.2 Habitat Survey

PGV Environmental undertook a Black Cockatoo habitat assessment on 4 September 2019 in accordance with the EPBC Act referral guidelines for three threatened Black Cockatoo species: Carnaby's cockatoo (endangered) Calyptorhynchus latirostris Baudin's cockatoo (vulnerable) Calyptorhynchus baudinii Forest red-tailed Black Cockatoo (vulnerable) Calyptorhynchus banksii naso (SEWPaC, 2012) (Black Cockatoo Referral Guidelines) and the methodology that is outlined in the SPRAT Database for each of the Black Cockatoo species for Black Cockatoo Habitat Assessments.

The site was traversed on foot and information on Black Cockatoo foraging, roosting and breeding habitat was assessed. The extent, type and quality of the vegetation present, including the presence and extent of plants known to be used by Black Cockatoos was investigated.

Breeding habitat was examined and, where possible, parts of trees that resembled possible breeding habitat were photographed from the ground to determine if there was suitable habitat. Potential breeding spouts/hollows that were determined to be hollow or could not be verified either way were recorded.

#### 4.3 Habitat definitions

'Foraging habitat' for Black Cockatoos is determined from the plant species that are present on the site and evidence of feeding such as direct observation of birds or by chewed nuts and cones. 'Roosting habitat' is usually evident due to the presence of Black Cockatoos on the site in the evening and early morning and of scat under the roosting area. 'Breeding habitat' is defined as trees of species known to support breeding within the range of the species which either have a suitable nest hollow OR have a DBH of 500mm or greater.

#### 4.4 Foraging

The site contains four species that are recognised as foraging habitat for Black Cockatoos (Table 4). The total canopy coverage of foraging habitat on the site is estimated to be around 2.6ha.

Table 4: Foraging Species for Carnaby's Black Cockatoos Recorded on the Site

Species	Common Name	Part eaten	Priority for Foraging <sup>1</sup>
Corymbia calophylla	Marri	Seed, flowers	High
Hakea prostrata	Harsh Hakea	Seed, flowers	Low
Eucalyptus marginata	Jarrah	Seed, flowers	High
Eucalyptus wandoo	White Gum	Seed, flowers	Low

<sup>1 -</sup> Groom, 2011

There was evidence of foraging on Marris by Carnaby's Black Cockatoo with the Marri nuts showing narrow scars from the species' smaller lower mandible (Fleming, 2011) (Plate 3).

Plate 3: Carnaby's Black Cockatoo Foraging on Marri



#### 4.5 Roosting

Carnaby's Black Cockatoos are known to roost overnight in tall trees including native and introduced eucalypts and pine trees generally in close proximity to a fresh water source. The site does not contain a known roosting site for Carnaby's Black Cockatoos (DoP, 2011; Peck *et al.*, 2018; National Map, 2019). The nearest roosting sites are reported to be around 2.6km to the south-west (National Map, 2019).

No evidence of the trees being utilised for roosting by Black Cockatoos was observed in the assessment.

#### 4.6 Breeding

Black Cockatoos are known to breed in hollows of large eucalypts, including Jarrah, Tuart and Marri trees. The site is not known as a breeding site for Black Cockatoos (DoP, 2011; National Map, 2019).

The Black Cockatoo Referral Guidelines define trees of certain species with a DBH of 300 to 500mm or greater, dependent on the tree species, as breeding habitat regardless of the presence or not of hollows. The theory behind this definition is the concept that while the trees may not currently contain hollows, they are mature enough that in the next 50 years or so a hollow might form and be of use to Black Cockatoos for the purposes of breeding.

Many of the trees on the site are young and often multi-stemmed and do not meet the definition of breeding habitat

A total of 33 trees were recorded on the site that had a dbh large enough to be considered potential breeding habitat (Figure 3; Appendix 6), including 27 Marri (*Corymbia calophylla*) and four Jarrah trees (*Eucalyptus marginata*). There were also two Wandoo trees (*Eucalyptus wandoo*) with a DBH greater than 300mm that were considered to be potential breeding habitat. None of the trees recorded had potential hollows and/or spouts.

Due to the recent fire the past breeding in trees would not have been able to be assessed. However, as none of the trees had hollows or spouts, no past breeding by Black Cockatoos would have been possible.

#### 4.7 Regional Context

To assist in determining the significance of any impact on Black Cockatoo habitat on the site an assessment of Black Cockatoo habitat within the vicinity of the site was undertaken.

There are a large number of areas of reserved bushland including State Forest, Regional Parks and National Parks that occur within 10km of the site (Figure 4). The habitat in reserves exceeds a total area of 10,000ha. All sites contain foraging habitat and large trees that are potential breeding habitat.

#### 4.8 EPBC Act Significant Impact Guidelines 1.1

According to the EPBC Act Significant Impact Guidelines 1.1 (DoE, 2013), the significance of the impact on Black Cockatoos depends on the sensitivity, value and quality of the environment and the intensity, duration, magnitude and geographic extent of the impacts. The category of listing (for example;

Endangered, Vulnerable or Migratory) determines the significant impact criteria for listed flora and fauna species and ecological communities.

This assessment assumes all of the foraging and potential breeding trees on the site would be cleared for future sand mining. Using this assumption, the clearing would result in approximately 2.6ha of foraging habitat for Carnaby's Black Cockatoos, Forest Red-tailed Black Cockatoos and Baudin's Black Cockatoos and 33 potential breeding trees being cleared.

The following assessments are for the Carnaby's Black Cockatoo and Baudin's Black Cockatoo which are listed as Endangered and the Forest Red-tailed Black Cockatoo which is listed as Vulnerable.

#### Carnaby's and Baudin's Black Cockatoos

The impact on Carnaby's Black Cockatoos and Baudin's Black Cockatoos from clearing the Black Cockatoo habitat on the site has been assessed against the criteria set out in the Significant Impact Guidelines 1.1 for the impact on an Endangered species and is shown below:

• Lead to a long-term decrease in the size of a population

There was no evidence that the site supports breeding or roosting of these species of Black Cockatoos. There are large areas (in excess of 10,000ha) of formal reserves within 10km consisting of large areas of foraging and potential breeding habitat. Therefore, clearing of the site will not result in this outcome.

• Reduce the area of occupancy of the species

Clearing of the site will not result in a reduction of any known breeding and roosting habitat although it will result in a reduction of approximately 2.6ha of foraging habitat. Within 10km of the site, however, there is more than 10,000ha of foraging habitat located in formal reserves and therefore clearing of the site will not result in this outcome.

• Fragment an existing population into two or more populations

Clearing of the site is unlikely to fragment the population of Carnaby's Black Cockatoos in the area into sub-populations due to the State Forest, Regional Parks and National Parks in the area providing linkages consisting of large areas of Black Cockatoo habitat. Carnaby's Black Cockatoos and Baudin's Black Cockatoos can fly large distances between foraging areas. Clearing of the site will therefore not result in this outcome.

Adversely affect habitat critical to the survival of a species

There was no evidence of breeding or roosting by Carnaby's Black Cockatoos or Baudin's Black Cockatoos on the site. The three trees that contained potentially suitable hollows/spouts and the approximately 2.6ha of foraging habitat is not considered to be critical to the survival of the species due to the large amount of foraging and potential breeding habitat within 10km of the site, therefore clearing of the site would not result in this outcome.

• Disrupt the breeding cycle of a population

The site contained no evidence of breeding and there were four trees that contained potentially suitable hollows/spouts therefore clearing of the site would not result in this outcome.

• Modify, destroy, remove, isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline

Clearing of the site will not result in this outcome due to the large extent of Black Cockatoo habitat reserved within 10km of the site.

• Result in invasive species that are harmful to a critically endangered or endangered species becoming established in the endangered or critically endangered species' habitat

Clearing of the site will not result in the establishment of an invasive species harmful to Carnaby's Black Cockatoos.

• Introduce disease that may cause the species to decline

Clearing of the site will not cause disease to be introduced therefore will not result in this outcome.

• Interfere with the recovery of the species

The Carnaby's Black Cockatoos that would utilise the site have access to greater than 10,000ha of habitat within 10km in reserves. Therefore, any clearing of habitat on the site would not interfere substantially with the recovery of the species.

The conclusion of this assessment in accordance with the criteria set out in the Significant Impact Guidelines 1.1 is that the proposed clearing will not have a significant impact on Carnaby's Black Cockatoos or Baudin's Black Cockatoos.

#### Forest Red-tailed Black Cockatoo

The impact on Forest Red-tailed Black Cockatoos from clearing the Black Cockatoo habitat on the site has been assessed against the criteria set out in the Significant Impact Guidelines 1.1 for the impact on a Vulnerable species and is shown below:

• Lead to a long-term decrease in the size of an important population of a species

In the Significant Impact Guidelines 1.1 an important population is defined as "a population that is necessary for a species' long-term survival and recovery" and may be "key source populations either for breeding or dispersal, populations that are necessary for maintaining genetic diversity, and/or populations that are near the limit of the species' range".

There was no evidence of breeding occurring on the site and the surrounding area contains greater than 10,000ha of reserves providing large areas of foraging and breeding habitat for Cockatoos that utilise the site. Development of the site would therefore not result in this outcome.

• Reduce the area of occupancy of an important population

There was no evidence found of Forest Red-tailed Black Cockatoos breeding or roosting on the site. Clearing of the site will reduce the area of foraging available by 2.6ha of foraging habitat, however there is greater than 10,000ha of foraging habitat within 10km of the site in surrounding reserves therefore clearing of the site would not result in this outcome.

• Fragment an existing important population into two or more populations

The large area of reserves containing habitat within 10km of the site that provide foraging and potential breeding habitat. Forest Red-tailed Black Cockatoos can fly large distances between foraging areas. Therefore, clearing of the site would not result in this outcome.

• Adversely affect habitat critical to the survival of a species

There was no evidence that Forest Red-tailed Black Cockatoos breed on the site and there are large areas of foraging habitat within 10km of the site, as formal reserves, therefore the site is not considered critical to the survival of these species.

• Disrupt the breeding cycle of an important population

There was no evidence that Forest Red-tailed Black Cockatoos breed on the site. No trees on the site contained potentially suitable hollows/spouts, therefore clearing of the site would not result in this outcome.

• Modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline

The large areas of foraging and breeding habitat located in reserves within 10km of the site would prevent the population from declining as a result of clearing of the site.

• Result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat

Clearing the site will not result in invasive species being introduced, therefore would not result in this outcome.

• Introduce disease that may cause the species to decline

Clearing the site will not result in disease being introduced, therefore would not result in this outcome.

• Interfere substantially with the recovery of the species

The Forest Red-tailed Black Cockatoos that would utilise the site have access to and area greater than 10,000ha of Black Cockatoo habitat within 10km in reserves. Therefore, the clearing of 2.6ha of foraging habitat on the site would not interfere substantially with the recovery of these species.

In accordance with the criteria set out in the Significant Impact Guidelines 1.1 the conclusion of this assessment is that clearing the site would not have a significant impact on Forest Red-tailed Black Cockatoos.

#### 4.9 Black Cockatoo Referral Guidelines

The EPBC Act referral guidelines for three threatened Black Cockatoo species: Carnaby's cockatoo (endangered) Calyptorhynchus latirostris Baudin's cockatoo (vulnerable) Calyptorhynchus baudinii Forest red-tailed Black Cockatoo (vulnerable) Calyptorhynchus banksii naso (SEWPaC, 2012) (Black Cockatoo Referral Guidelines) contain several steps to determine whether or not a referral is required. These steps are:

- The definition of habitat (breeding, roosting and foraging Table 1 in the Black Cockatoo Referral Guidelines);
- 2. A description of the type of action that may have a high or low risk of being a significant impact and therefore require referral (Table 3 in the Black Cockatoo Referral Guidelines);
- 3. Formulation of a mitigation strategy to reduce the scale of impact; and
- 4. A flowchart to assist in decision making on whether or not an action should be referred.

#### Step 1 Black Cockatoo Habitat

This assessment assumes all of the foraging and potential breeding trees on the site would be cleared for a development. As outlined previously there is approximately 2.6ha of foraging habitat for Black Cockatoos on the site with evidence of foraging on Marri. There are 33 trees that are considered to be potential breeding trees under the definition provided by the Department of the Environment and Energy. There is however no recorded breeding or roosting on the site or evidence of such.

#### Step 2 Level of Impact

#### **Foraging**

According to Table 3 in the Black Cockatoo Referral Guidelines the clearing of more than 1ha of quality foraging habitat has a high risk of causing a significant impact. Degradation of more than 1ha of quality habitat by things such as altered hydrology or fire regimes has an uncertain risk. The significance of degradation depends on the type of degradation and the quality of the habitat.

The site contains approximately 2.6ha of foraging habitat. Clearing of the whole site will lead to the loss of more than 1ha of quality foraging habitat and therefore result in a high risk of a significant impact.

#### Roosting

The Black Cockatoo Referral Guidelines consider the clearing of a known roosting site as a high risk of being a significant impact. The site is not mapped as having a known roosting site. There were no roosting sites recorded in the Significant Tree Survey and the risk of a significant impact on a known roosting site is considered to be low.

#### Breeding

According to Table 3 in the Black Cockatoo Referral Guidelines the clearing of any known nesting tree has a high risk of being a significant impact. A known nesting tree is defined in the Black Cockatoo Referral Guidelines as any existing tree in which breeding has been recorded or suspected. There are

no known nesting trees that occur on the site and therefore there is no risk of a significant impact on known breeding habitat of Black Cockatoos.

The Black Cockatoo Referral Guidelines also consider that the clearing or degradation of any part of a vegetation community known to contain breeding habitat is likely to have a high risk of a significant impact. In Table 1 of the Black Cockatoo Referral Guidelines breeding habitat is defined as woodlands, forests or isolated trees that contain or consist of live or dead trees of certain species with either a DBH of or greater than 500mm or the presence of suitable nest hollows. The site contains 33 trees with a DBH of or greater than 500mm, four of which contained hollows/spouts potentially suitable for Black Cockatoos. According to Table 1 of the Black Cockatoo Referral Guidelines Black Cockatoos have the potential to breed in the Marri, Jarrah and Wandoo trees on the site in the future.

According to the Black Cockatoo Referral Guidelines the risk of a significant impact on breeding habitat of Black Cockatoos is considered to be high as more than one potential breeding habitat tree would be cleared.

#### Surrounding Habitat

According to the Black Cockatoo Referral Guidelines clearing of vegetation that results in a gap of greater than 4km between patches of Black Cockatoo habitat (foraging, roosting or breeding) has a high risk of having a significant impact. As listed in Table 6 there are greater than 10,000ha of reserves within 10km of the site that provide Black Cockatoo habitat. Therefore, the risk of creating a gap of greater than 4km between areas of Black Cockatoo habitat is considered to be very low.

#### Step 3 Mitigation

The consideration of a mitigation strategy during the determination of the level of impact and requirement to refer is allowed by the Black Cockatoo Referral Guidelines and setting in place the best practice mitigation strategy may reduce the level of impact and in turn the risk of a significant impact. Mitigation strategies include avoiding impact, managing impact so that there is no net decline in habitat and monitoring the effectiveness of mitigation.

This assessment is based on the entire 2.6ha of foraging habitat and all 33 potential breeding trees being cleared. Putting a mitigation strategy in place during the planning stage may reduce the level of impact on Black Cockatoos from clearing the site. Mitigation of the site could include the planting of Marri and Jarrah trees following mining of the site.

#### Step 4 Referral Advice

The Decision Making flowchart in Figure 1 of the Black Cockatoo Referral Guidelines was applied to the site without consideration of mitigation strategies and is shown in sequence below:

- 1 Could the impacts of your action occur within the modelled distribution of the black cockatoos? – YES
- 2 Could the impacts of your action affect any black cockatoo habitat or individuals? YES
- 3 Have you surveyed for black cockatoo habitat using the recommended methods? YES
- 4 Could your action have an impact on black cockatoos or their habitat? YES

5 Is your impact mitigation best practice so that it may reduce the significance of your impacts on black cockatoos? Prioritise impact avoidance over impact minimisation - NO

RESULT – Referral Recommended: High risk of resulting in a significant impact if all habitat were to be cleared.

#### 5 SUMMARY AND CONCLUSIONS

#### 5.1 Flora and Vegetation

The Flora and Vegetation survey found the following:

- There is no intact native vegetation on the site;
- The vegetation is rated as Completely Degraded;
- No Threatened (Declared Rare) or Priority Flora species were recorded or are likely to occur on the site:
- No Conservation Significant vegetation on the site such as a Threatened or Priority Ecological Communities or poorly represented Vegetation Complexes occur on the site; and
- No further surveys are considered necessary.

#### 5.2 Black Cockatoo Habitat

The Black Cockatoo Habitat Assessment was undertaken as the site contain habitat for three species of listed black cockatoos including:

- Baudin's Black Cockatoo (Calyptorhynchus baudinii) (Endangered);
- Carnaby's Black Cockatoo (Calyptorhynchus latirostris) (Endangered); and
- Forest Red-tailed Black-Cockatoo (Calyptorhynchus banksii naso) (Vulnerable).

The Black Cockatoo Habitat Assessment concludes the following:

- The site contains approximately 2.6ha of foraging habitat consisting primarily of Marri and Jarrah trees;
- Evidence of foraging by Carnaby's Black Cockatoos on Marri nuts was recorded in the site survey;
- There was no evidence of recent roosting on the site;
- Breeding by Black Cockatoos has not been recorded on the site;
- There were 33 potential breeding habitat trees consisting of 27 Marri (*Corymbia calophylla*), four Jarrah (*Eucalyptus marginata*) and two Wandoos (*Eucalyptus wandoo*);
- Clearing of the Black Cockatoo habitat is not likely to lead to a significant impact according to
  the EPBC Act Significant Impact Guidelines 1.1. However, according to the Black Cockatoo
  Referral Guidelines the clearing of all foraging and potential breeding habitat is likely to
  require referral under the EPBC Act.

#### 5.3 Conclusion

The Flora, Vegetation and Black Cockatoo Habitat survey of Lot 13 Horton Road, The Lakes concludes that the site is completely devoid of intact native vegetation and therefore mining will not have any impact on significant flora species and vegetation types.

Clearing all the Marri, Jarrah and Wandoo trees on the site will result in the clearing of habitat for Black Cockatoos that is likely to require referral under the EPBC Act.

#### 6 REFERENCES

- Department of Biodiversity, Conservation and Attractions (DBCA) (2019) Naturemap . Accessed September, 2019 <a href="https://naturemap.dpaw.wa.gov.au/">https://naturemap.dpaw.wa.gov.au/</a> Government of Western Australia, Perth.
- Department of Environment and Conservation (DEC) (2012) Cinnamon Sun Orchid Endangered Flora of Western Australia Fact Sheet. <a href="https://www.dpaw.wa.gov.au/images/documents/plants-animals/threatened-species/flora posters/ThelymitraDedmaniarum2009135.pdf">https://www.dpaw.wa.gov.au/images/documents/plants-animals/threatened-species/flora posters/ThelymitraDedmaniarum2009135.pdf</a> Accessed June 2016 Perth, Western Australia
- Department of Primary Industries and Regional Development (DPIRD) (2019) Natural Resource Information. Accessed September, 2019 <a href="http://maps.agric.wa.gov.au/nrm-info/">http://maps.agric.wa.gov.au/nrm-info/</a> Government of Western Australia, Perth.
- Department of Sustainability, Environment, Water, Population and Communities (SEWPaC) (2012)

  Environment Protection and Biodiversity Conservation Act 1999 referral guidelines for three threatened black cockatoo species: Carnaby's cockatoo (endangered) Calyptorhynchus latirostris; Baudin's cockatoo (vulnerable) Calyptorhynchus baudinii; Forest red-tailed black cockatoo (vulnerable) Calyptorhynchus banksii naso. Commonwealth of Australia.
- Department of the Environment and Energy (DoEE) (2018) Species Profile and Threats (SPRAT)

  Database. <a href="http://www.environment.gov.au/cgi-bin/sprat/public/publicthreatenedlist.pl">http://www.environment.gov.au/cgi-bin/sprat/public/publicthreatenedlist.pl</a>
  Commonwealth of Australia.
- Department of the Environment and Energy (DoEE) (2019) Protected Matters Search Tool.

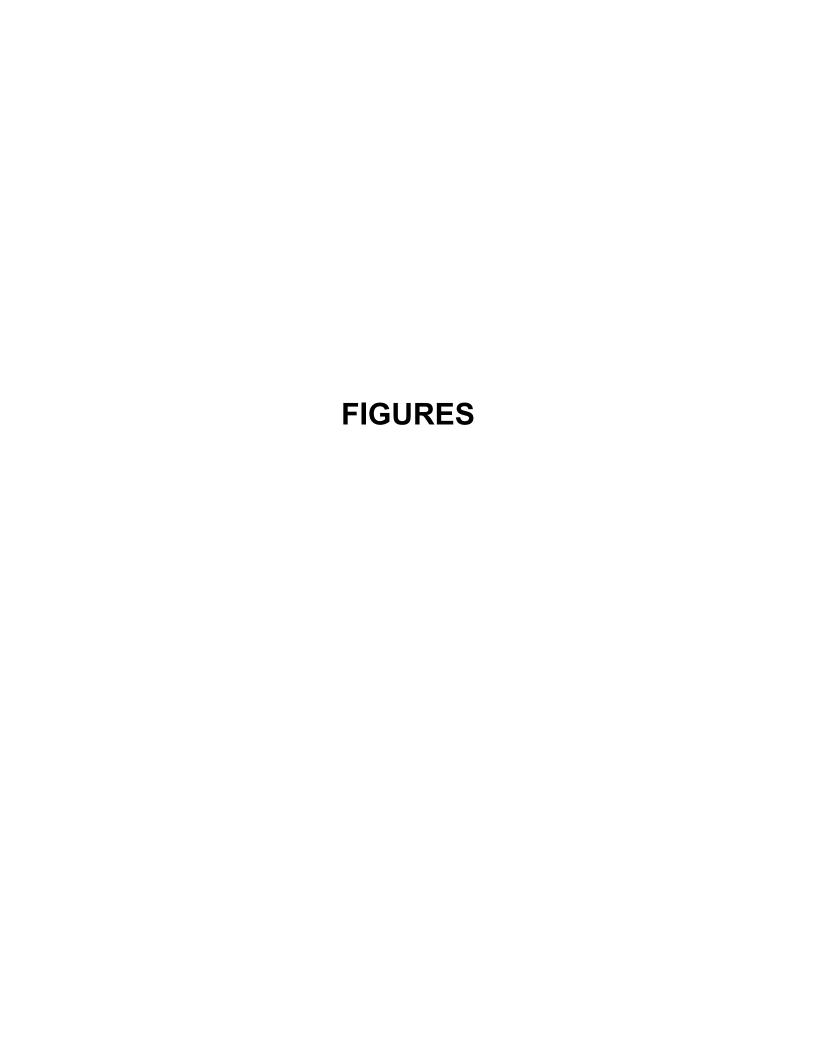
  <a href="http://www.environment.gov.au/cgi-bin/sprat/public/publicthreatenedlist.pl">http://www.environment.gov.au/cgi-bin/sprat/public/publicthreatenedlist.pl</a>
  <a href="http://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf">http://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf">Accessed</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf">http://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf">https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf">https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf">https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf">https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf">https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf">https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst/pmst.jsf">https://www.environment.gov.au/webgis-framework/apps/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst.jsf">https://www.environment.gov.au/webgis-framework/apps/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst.jsf">https://www.environment.gov.au/webgis-framework/apps/pmst.jsf</a>
  <a href="https://www.environment.gov.au/webgis-framework/apps/pmst.jsf">https://www.environment.gov.au/we
- Department of Water and Environmental Regulation (DWER) (2018) Water Information Reporting.

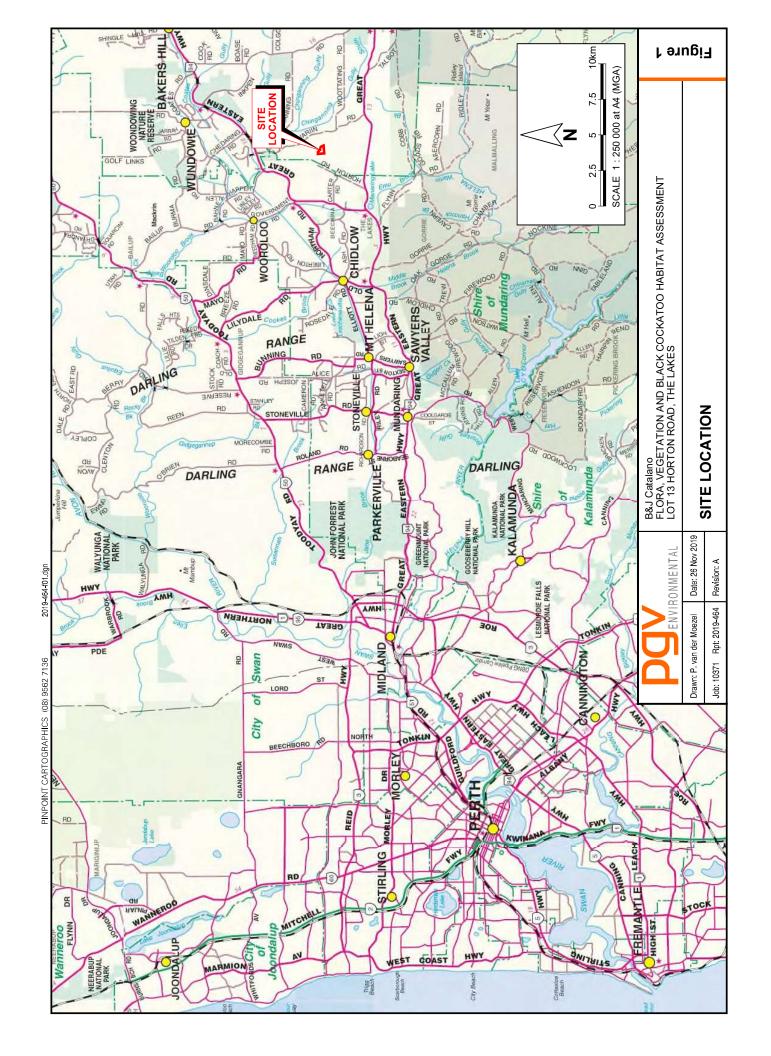
  Accessed September 2019 <a href="http://www.water.wa.gov.au/maps-and-data/monitoring">http://www.water.wa.gov.au/maps-and-data/monitoring</a>
  Government of Western Australia, Perth.
- Environment Australia (2002) Revision of the Interim Biogeographic Regionalisation for Australia (IBRA) and Development of Version 5.1 Summary Report Australia
- Environmental Protection Authority (EPA) (2016) EPA Technical Guidance Flora and Vegetation Surveys for Environmental Impact Assessment Perth Western Australia
- Environmental Protection Authority (EPA) (2016b) with EPA Technical Guidance Fauna Surveys for Environmental Impact Assessment Perth Western Australia
- Fleming, R (2011) Identification of chewed Marri nuts eaten by Cockatoos and Parrots. Pamphlet for Cockatoo Care, Urban Bushland Council and the Western Australian Museum. Perth, Western Australia

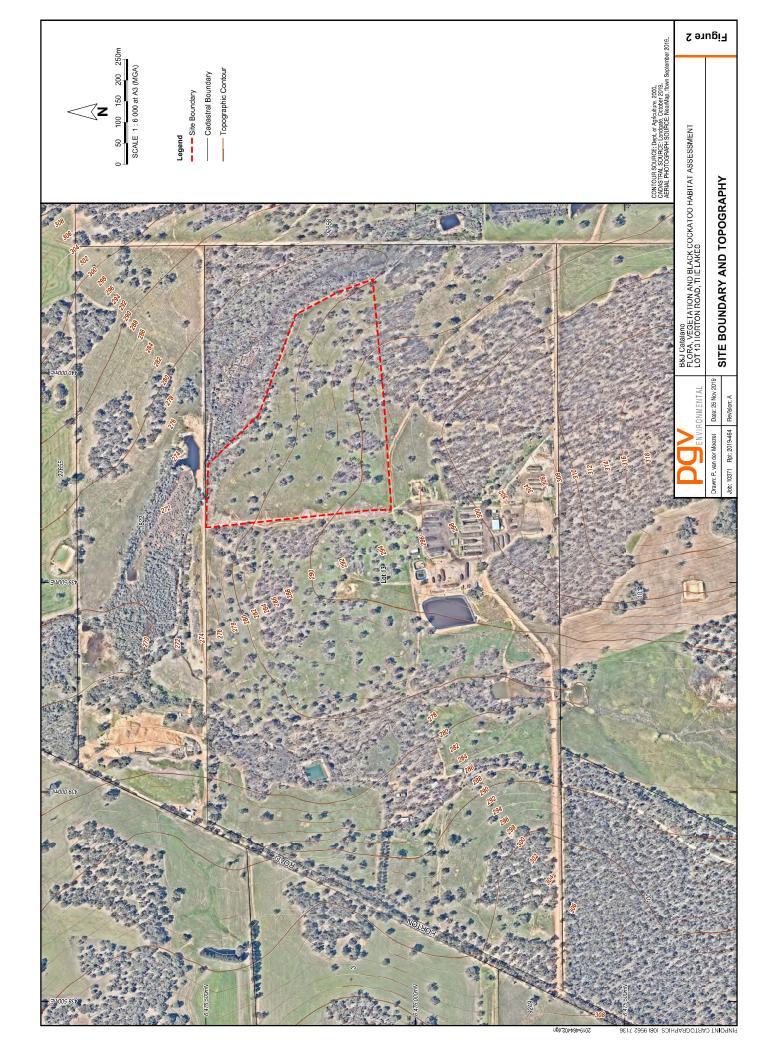
- Government of Western Australia (2000) Bush Forever Keeping the Bush in the City. Volume 2: Directory of Bush Forever Sites. Perth, Western Australia.
- Groom (2011) *Plants Used by Carnaby's Black Cockatoo*. Published by the Department of Environment and Conservation. Perth, Western Australia.
- Johnstone, R. E. C. and Kirkby, T. (2011) Carnaby's Cockatoo (Calyptorhynchus latirostris), Baudin's Cockatoo (Calyptorhynchus baudinii) and the Forest Red-tailed Black Cockatoo (Calyptorhynchus banksii naso) on the Swan Coastal Plain (Lancelin—Dunsborough), Western Australia. Studies on distribution, status, breeding, food, movements and historical changes. Report for the Department of Planning, Perth, Western Australia.
- Landgate (2019) Historical Aerial Photography. Accessed September, 2019
  <a href="https://www.landgate.wa.gov.au/bmvf/app/mapviewer/">https://www.landgate.wa.gov.au/bmvf/app/mapviewer/</a> Government of Western Australia,

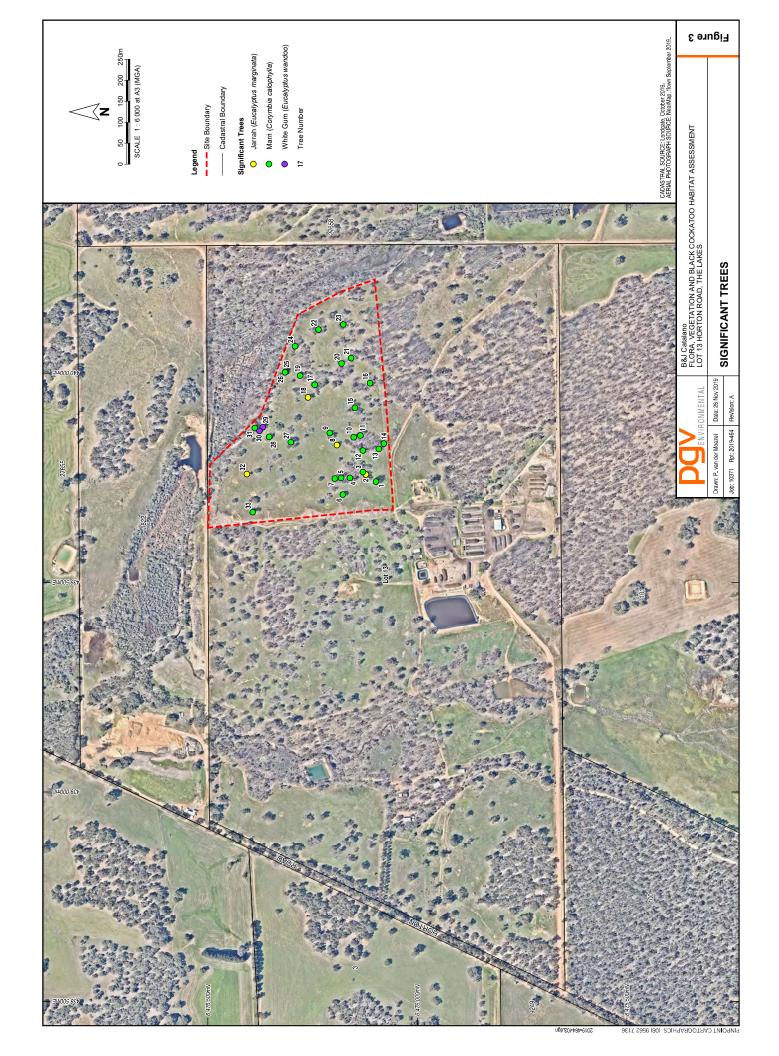
  Perth.
- McArthur W.M. (1991). Reference Soils of South-Western Australia. Department of Agriculture, Perth.
- National Map (2019) Map-Based Access to Spatial Data from Australian Government Agencies <a href="http://nationalmap.gov.au/#wa">http://nationalmap.gov.au/#wa</a> Accessed September, 2019 Government of Australia
- Peck, A., Barrett, G. and Williams, M. (2018) The 2018 Great Cocky Count: a community-based survey for Carnaby's Black-Cockatoo (Calyptorhynchus latirostris), Baudin's Black-Cockatoo (Calyptorhynchus baudinii) and Forest Red-tailed Black-Cockatoo (Calyptorhynchus banksii naso). BirdLife Australia, Floreat, Western Australia.
- Shepherd, D.P., Beeston, G.R, and Hopkins, A.J.M (2001) *Native Vegetation in Western Australia.*Technical Report 249. Department of Agriculture Western Australia, South Perth.
- Valentine, L.E. and Stock, W. (2008) Food Resources of Carnaby's Black Cockatoo (Calyptorhynchus latirostris) In The Gnangara Sustainability Strategy Study Area. Report for the Gnangara Sustainability Strategy. Government of Western Australia, Perth.
- Western Australian Herbarium (2011) Atlas of Living Australia; Australia's Virtual Herbarium Record

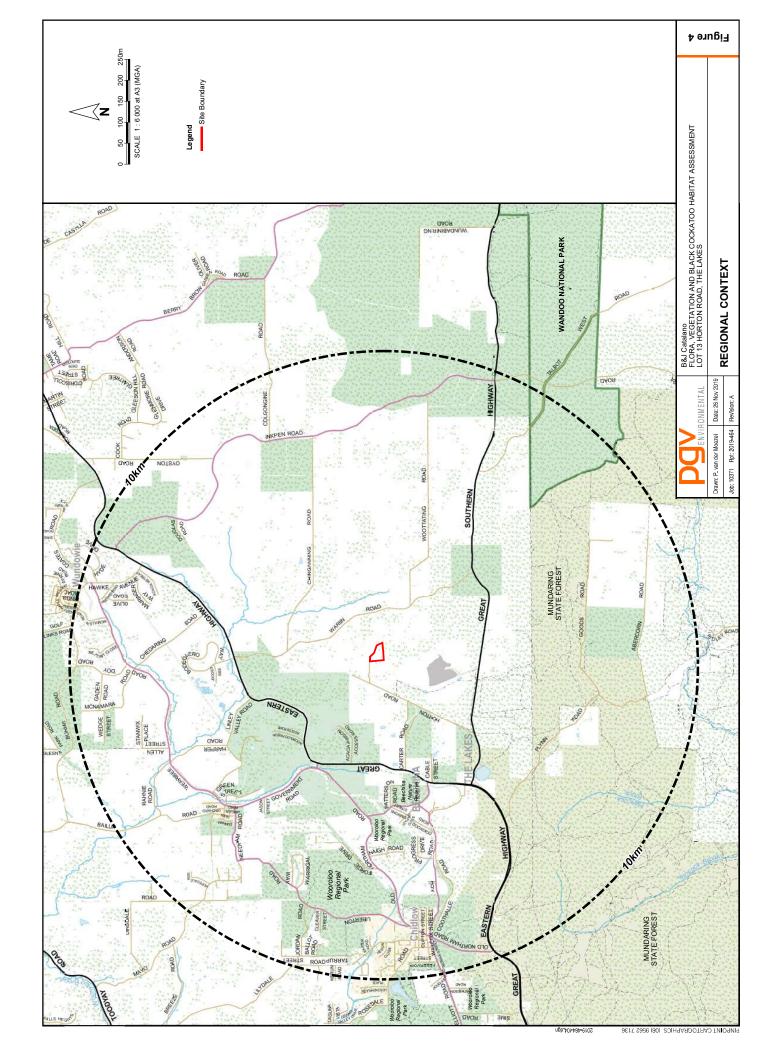
  Meionectes tenuifolia <a href="http://biocache.ala.org.au/occurrences/04496260-6c2d-423f-88ef-4dd95c1aa6a8">http://biocache.ala.org.au/occurrences/04496260-6c2d-423f-88ef-4dd95c1aa6a8</a> Accessed April 2017 Perth, Western Australia
- Western Australian Local Government Association (WALGA) (2018) Remnant Vegetation Extent Stats
  2018 Perth western Australia
- Williams, K., Horan, A., Wood, S. and Webb, A (2001) Declared rare and poorly known flora in the Central Forest Region, Western Australian Wildlife Management Program No. 33, Western Australian Department of Conservation and Land Management. Perth, Western Australia











# APPENDIX 1 Naturemap Report



# NatureMap Species Report

# Created By Guest user on 12/09/2019

Current Names Only Yes Core Datasets Only Yes

Method 'By Circle'

Centre 116° 21' 54" E,31° 50' 54" S

Buffer 10kr

Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	681	3989
Other specially protected fauna	2	5
Priority 1	1	2
Priority 2	1	1
Priority 3	5	24
Priority 4	9	32
Rare or likely to become extinct	10	102
TOTAL	709	4155

	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area		
Rare or likely to become extinct							
1.	-	Acacia aphylla (Leafless Rock Wattle)		Т			
2.	24162	Bettongia penicillata subsp. ogilbyi (Woylie, Brush-tailed Bettong)		Т			
3.		Calyptorhynchus banksii subsp. naso (Forest Red-tailed Black Cockatoo)		Т			
4.	24733	Calyptorhynchus baudinii (Baudin's Cockatoo, White-tailed Long-billed Black Cockatoo)		Т			
5.	24734	Calyptorhynchus latirostris (Carnaby's Cockatoo, White-tailed Short-billed Black Cockatoo)		Т			
6.	48400	Calyptorhynchus sp. (white-tailed black cockatoo)		Т			
7.	24092	Dasyurus geoffroii (Chuditch, Western Quoll)		Т			
8.		Leipoa ocellata (Malleefowl)		Т			
9.		Macrotis lagotis (Bilby, Dalgyte, Ninu)		Т			
10.		Myrmecobius fasciatus (Numbat, Walpurti)		Т			
Other spec	ially pro	tected fauna					
11.	25624	Falco peregrinus (Peregrine Falcon)		S			
12.	48070	Phascogale tapoatafa subsp. wambenger (South-western Brush-tailed Phascogale, Wambenger)		S			
Priority 1							
13.	8205	Senecio gilbertii		P1			
Priority 2	12027	Curainula iriaidea suban pandida		DO.			
14.	13827	Cyanicula ixioides subsp. candida		P2			
Priority 3							
15.	11336	Adenanthos cygnorum subsp. chamaephyton		P3			
16.	33638	Meionectes tenuifolia		P3			
17.	31765	Synaphea diabolica		P3			
18.	4540	Tetratheca pilifera		P3			
19.	1327	Thysanotus cymosus		P3			
Priority 4							
20.	13826	Cyanicula ixioides subsp. ixioides		P4			
21.		Daviesia oxylobium		P4			
22.		Falsistrellus mackenziei (Western False Pipistrelle, Western Falsistrelle)		P4			
23.		Grevillea pimeleoides		P4			
24.		Hibbertia montana		P4			
25.		Hydromys chrysogaster (Water-rat, Rakali)		P4			
26.		I Isoodon fusciventer (Quenda, southwestern brown bandicoot)		P4			
27.		Notamacropus irma (Western Brush Wallaby)		P4			
28.		Trithuria australis		P4			
Non-conse	rvation t	ayon					
	45400						

15466 Acacia applanata



	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Que Area
30.		Acacia baileyana	Υ		
31.		Acacia barbinervis subsp. barbinervis			
32.		Acacia celastrifolia (Glowing Wattle)			
33.		Acacia drummondii subsp. drummondii			
34.		Acacia drummondii subsp. elegans			
35.		Acacia ephedroides			
36. 37.		Acacia luegelii			
38.		Acacia lasiocarpa var. bracteolata Acacia lasiocarpa var. sedifolia			
39.		Acacia latipes subsp. latipes			
40.		Acacia microbotrya (Manna Wattle, Kalyang)			
41.		Acacia nervosa (Rib Wattle)			
42.		Acacia preissiana			
43.		Acacia pulchella var. glaberrima			
44.	15483	Acacia pulchella var. pulchella			
45.		Acacia pulchella var. reflexa			
46.		Acacia restiacea			
47.	30033	Acacia saligna subsp. lindleyi			
48.		Acacia sp.			
49.	3557	Acacia stenoptera (Narrow Winged Wattle)			
50.	3574	Acacia teretifolia			
51.	3602	Acacia willdenowiana (Grass Wattle)			
52.	24260	Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill)			
53.	24261	Acanthiza chrysorrhoa (Yellow-rumped Thornbill)			
54.	24262	Acanthiza inomata (Western Thornbill)			
55.	24560	Acanthorhynchus superciliosus (Western Spinebill)			
56.		Accipiter cirrocephalus (Collared Sparrowhawk)			
57.		Accipiter fasciatus (Brown Goshawk)			
58.		Acrocephalus australis (Australian Reed Warbler)			
59.		Actinobole uliginosum (Flannel Cudweed)			
60.		Actinotus leucocephalus (Flannel Flower)			
61.		Adenanthos barbiger			
62.		Adenanthos cygnorum (Common Woollybush)			
63.		Aegotheles cristatus (Australian Owlet-nightjar)			
64.		Aegotheles cristatus subsp. cristatus (Australian Owlet-nightjar)			
65. 66.		Agrostocrinum hirsutum Aira cupaniana (Silvery Hairgrass)	Υ		
67.		Allocasuarina campestris	·		
68.		Allocasuarina fraseriana (Sheoak, Kondil)			
69.		Alstroemeria psittacina	Υ		
70.		Alternanthera nodiflora (Common Joyweed)			
71.		Ambicodamus kochi			
72.		Amblyomma triguttatum			
73.	194	Amphipogon amphipogonoides			
74.	20197	Amphipogon laguroides subsp. havelii			
75.		Aname mainae			
76.	24312	Anas gracilis (Grey Teal)			
77.	24315	Anas rhynchotis (Australasian Shoveler)			
78.	24316	Anas superciliosa (Pacific Black Duck)			
79.	47414	Anhinga novaehollandiae (Australasian Darter)			
80.	11470	Anigozanthos bicolor subsp. bicolor			
81.	1409	Anigozanthos humilis (Catspaw)			
82.	11434	Anigozanthos humilis subsp. humilis			
83.		Anigozanthos manglesii subsp. manglesii			
84.		Antechinomys laniger (Kultarr)			
85.		Anthochaera carunculata (Red Wattlebird)			
86.	24562	Anthochaera lunulata (Western Little Wattlebird)			
87.		Antichtopauropus brevitarsus			Υ
88.	24285	Aquila audax (Wedge-tailed Eagle)			
89.	04071	Arachnura higginsi			
90.		Ardea pacifica (White-necked Heron)			
91.		Artorum preissii			
92.		Artamus cinereus (Black-faced Woodswallow)			
93. 94.		Artamus cyanopterus (Dusky Woodswallow)			
94. 95.	24000	Ardamus personatus (Masked Woodswallow)			
95. 96.	6323	Asadipus kunderang Astroloma ciliatum (Candle Cranberry)			
97.		Astroloma compactum  Astroloma compactum			
98.		Astroloma pallidum (Kick Bush)			
99.	5004	Austracantha minax			
JJ.		, new country trima	Departmer Conserva	nt of Biodiversity,	WESTE







	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
100.	17237	Austrostipa elegantissima			
101.	17240	Austrostipa flavescens			
102.	17254	Austrostipa tenuifolia			
103.	17257	Austrostipa variabilis			
104.	18279	Babiana angustifolia	Y		
105.	36441	Babingtonia camphorosmae (Camphor Myrtle)			
106.		Badumna insignis			
107.		Baiami volucripes			
108.		Banksia armata var. armata			
109.		Banksia bipinnatifida			
110.		Banksia bipinnatifida subsp. bipinnatifida			
111.		Banksia dallanneyi subsp. dallanneyi var. dallanneyi			
112.		Banksia dallanneyi subsp. dallanneyi var. mellicula			
113.		Banksia dallanneyi subsp. sylvestris			
114.		Banksia drummondii subsp. hiemalis			
115.		Banksia fraseri var. fraseri			
116. 117.		Banksia grandis (Bull Banksia, Pulgarla)			
117.		Banksia sessilis var. sessilis  Panksia sebaggagga var. sebaggagga (Fox Panksia)			
119.		Banksia sphaerocarpa var. sphaerocarpa (Fox Banksia)			
120.		Banksia squarrosa (Pingle)			
120.	32043	Banksia squarrosa subsp. squarrosa Barnardius zonarius			
122.	740	Baumea arthrophylla			
123.		Baumea rubiginosa			
124.		Billardiera fraseri (Elegant Pronaya)			
125.		Billardiera fusiformis (Australian Bluebell)			
126.		Biziura lobata (Musk Duck)			
127.		Blennospora drummondii			
128.		Boronia ramosa subsp. anethifolia			
129.		Boronia spathulata (Boronia)			
130.	3710	Bossiaea eriocarpa (Common Brown Pea)			
131.	3714	Bossiaea ornata (Broad Leaved Brown Pea)			
132.	3717	Bossiaea pulchella			
133.	7875	Brachyscome glandulosa			
134.	7878	Brachyscome iberidifolia			
135.	42381	Brachyurophis semifasciatus (Southern Shovel-nosed Snake)			
136.	2995	Brassica x napus	Υ		
137.	244	Briza maxima (Blowfly Grass)	Υ		
138.	250	Bromus hordeaceus (Soft Brome)	Υ		
139.		Burhinus grallarius (Bush Stone-curlew)			
140.		Cacatua pastinator (Western Long-billed Corella)			
141.		Cacatua roseicapilla (Galah)			
142.		Cacatua sanguinea (Little Corella)			
143.		Cacomantis flabelliformis (Fan-tailed Cuckoo)			
144.		Cacomantis flabelliformis subsp. flabelliformis (Fan-tailed Cuckoo)			
145.		Cacomantis pallidus (Pallid Cuckoo)			
146.		Caladenia flava subsp. flava			
147.		Caladenia fluvialis  Caladenia Inggialayata (Clubbad Spidar Orabid)			
148. 149.		Caladenia longiclavata (Clubbed Spider Orchid)  Caladenia nana subsp. nana			
150.		Caladenia reptans subsp. reptans			
150.		Calectasia narragara			
151.		Calothamnus quadrifidus subsp. quadrifidus			
153.		Calyptorhynchus banksii (Red-tailed Black-Cockatoo)			
154.		Calytrix depressa			
155.		Calytrix glutinosa			
156.		Calytrix variabilis			
157.		Campylopus introflexus	Υ		
158.		Candelariella xanthostigmoides			
159.		Cassytha racemosa (Dodder Laurel)			
160.		Caustis dioica			
161.		Centaurea melitensis (Maltese Cockspur, Malta Thistle)	Υ		
162.		Centaurium tenuiflorum	Y		
163.	2889	Cerastium glomeratum (Mouse Ear Chickweed)	Υ		
164.	24086	Cercartetus concinnus (Western Pygmy-possum, Mundarda)			
		Cercophonius squama			
165.		Challandahun and dii (Caulalla Walllad Dat)			
165. 166.	24186	Chalinolobus gouldii (Gould's Wattled Bat)			
166. 167.	1280	Chamaescilla corymbosa (Blue Squill)			
166.	1280 3169				







	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
170.	47909	Cheramoeca leucosterna (White-backed Swallow)			
171.		Chloris truncata (Windmill Grass)			
172.	763	Chorizandra enodis (Black Bristlerush)			
173.	13111	Chorizema aciculare subsp. laxum			
174.		Citrullus amarus	Y		
175.		Cladonia capitellata			
176.		Cladonia rigida			
177.		Clematis pubescens (Common Clematis)			
178.		Colluricincla harmonica (Grey Shrike-thrush)			
179.		Colluricincla harmonica subsp. rufiventris (Grey Shrike-thrush)			
180.		Comesperma calymega (Blue-spike Milkwort)			
181.		Comesperma ciliatum			
182. 183.		Conospermum densiflorum subsp. densiflorum			
184.		Conospermum stoechadis subsp. stoechadis (Common Smokebush)  Conostylis aculeata (Prickly Conostylis)			
185.		Conostylis aculeata subsp. bromelioides			
186.		Conostylis acaricina subsp. caricina			
187.		Conostylis serrulata			
188.		Conostylis setigera (Bristly Cottonhead)			
189.		Conostylis setigera subsp. setigera			
190.		Conostylis setosa (White Cottonhead)			
191.		Coracina novaehollandiae (Black-faced Cuckoo-shrike)			
192.		Cormocephalus aurantiipes			
193.	25592	Corvus coronoides (Australian Raven)			
194.	17104	Corymbia calophylla (Marri)			
195.	24671	Coturnix pectoralis (Stubble Quail)			
196.	24420	Cracticus nigrogularis (Pied Butcherbird)			
197.	25595	Cracticus tibicen (Australian Magpie)			
198.	25596	Cracticus torquatus (Grey Butcherbird)			
199.	13354	Craspedia variabilis			
200.	3136	Crassula alata	Υ		
201.	17701	Crassula closiana			
202.	24918	Crenadactylus ocellatus subsp. ocellatus (Clawless Gecko)			
203.		Crepis foetida subsp. foetida (Stinking Hawksbeard)	Υ		
204.		Crinia georgiana (Quacking Frog)			
205.		Crinia glauerti (Clicking Frog)			
206.		Crinia pseudinsignifera (Bleating Froglet)			
207.		Cryptandra arbutiflora var. arbutiflora			
208.		Cryptandra nutans			
209. 210.		Cryptoblepharus buchananii			
211.		Ctenophorus ornatus (Ornate Crevice-Dragon) Cucumis myriocarpus subsp. myriocarpus	Y		
212.		Cyanella hyacinthoides	Y		
213.		Cyanicula gemmata			
214.		Cyathochaeta avenacea			
215.		Cyperus tenellus (Tiny Flatsedge)	Υ		
216.		Dacelo novaeguineae (Laughing Kookaburra)	Y Y		
217.		Dacelo novaeguineae subsp. novaeguineae (Laughing Kookaburra)	Ϋ́		
218.		Dampiera alata (Winged-stem Dampiera)	·		
219.	7451	Dampiera lavandulacea			
220.	7454	Dampiera linearis (Common Dampiera)			
221.	25673	Daphoenositta chrysoptera (Varied Sittella)			
222.	24606	Daphoenositta chrysoptera subsp. pileata (Varied Sittella, Black-capped Sitella)			
223.	6960	Datura ferox (Fierce Thornapple)	Υ		
224.	3799	Daviesia cordata (Bookleaf)			
225.	19747	Daviesia decurrens subsp. decurrens			
226.	11879	Daviesia hakeoides subsp. hakeoides			
227.		Daviesia hakeoides subsp. subnuda			
228.		Daviesia horrida (Prickly Bitter-pea)			
229.		Daviesia longifolia			
230.		Daviesia physodes			
231.		Daviesia preissii			
232.		Daviesia rhombifolia			
233.		Delma fraseri (Fraser's Legless Lizard)			
234. 235.		Desmocladus fasciculatus			
235. 236.		Dianella revoluta (Blueberry Lily) Dianella revoluta var. divaricata			
230.		Dianella revoluta var. divaricata  Dicaeum hirundinaceum (Mistletoebird)			
238.		Dichelachne crinita (Longhair Plumegrass)			
239.		Dichopogon capillipes			
			Department	of Biodiversity,	WESTERN







	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
240.	20367	Dillwynia laxiflora			
241.	24929	Diplodactylus granariensis subsp. granariensis			
242.		Diplopeltis huegelii			
243.		Diplopeltis huegelii subsp. lehmannii			
244.		Diplotaxis muralis (Wall Rocket)	Υ		
245.		Diuris carinata (Bee Orchid)			
246.		Diuris corymbosa			
247.		Diuris longifolia (Common Donkey Orchid)			
248.		Diuris porrifolia			
249.		Dodonaea viscosa subsp. angustissima			
250. 251.		Drakaea gracilis			
251.		Dromaius novaehollandiae (Emu) Drosera bulbosa (Red-leaved Sundew)			
253.		Drosera bulbosa (Neu-leaveu Sulidew) Drosera callistos			
254.		Drosera collina			
255.		Drosera erythrorhiza (Red Ink Sundew)			
256.		Drosera gigantea (Giant Sundew)			
257.		Drosera glanduligera (Pimpernel Sundew)			
258.		Drosera macrantha (Bridal Rainbow)			
259.		Drosera menziesii (Pink Rainbow)			
260.		Drosera stolonifera (Leafy Sundew)			
261.		Egretta novaehollandiae			
262.	349	Ehrharta longiflora (Annual Veldt Grass)	Υ		
263.		Elanus axillaris			
264.	47937	Elseyornis melanops (Black-fronted Dotterel)			
265.	1644	Elythranthera emarginata (Pink Enamel Orchid)			
266.		Eolophus roseicapillus			
267.	24652	Eopsaltria georgiana (White-breasted Robin)			
268.	24567	Epthianura albifrons (White-fronted Chat)			
269.	24258	Equus caballus (Horse)	Υ		
270.	376	Eragrostis curvula (African Lovegrass)	Υ		
271.		Eragrostis elongata (Clustered Lovegrass)			
272.		Eremiascincus richardsonii (Broad-banded Sand Swimmer)			
273.		Ericomyrtus serpyllifolia			
274.	4332	Erodium botrys (Long Storksbill)	Υ		
275.	5545	Ethmostigmus rubripes			
276.		Eucalyptus accedens (Powderbark Wandoo)			
277.		Eucalyptus marginata subsp. marginata (Jarrah)			
278. 279.		Eucalyptus marginata subsp. thalassica (Blue-leaved Jarrah)  Eucalyptus patens (Swan River Blackbutt, Dwuda)			
280.		Eucalyptus rudis (Flooded Gum, Kulurda)			
281.		Eucalyptus wandoo subsp. wandoo			
282.	12000	Eucyrtops latior			
283.	25621	Falco berigora (Brown Falcon)			
284.		Falco cenchroides (Australian Kestrel, Nankeen Kestrel)			
285.		Falco longipennis (Australian Hobby)			
286.		Falcunculus frontatus (Crested Shrike-tit)			
287.		Falcunculus frontatus subsp. leucogaster (Western Shrike-tit, Crested Shrike-tit)			
288.	24041	Felis catus (Cat)	Υ		
289.	25727	Fulica atra (Eurasian Coot)			
290.	8365	Fumaria bastardii	Υ		
291.	2969	Fumaria capreolata (Whiteflower Fumitory)	Υ		
292.		Galium divaricatum	Υ		
293.	25730	Gallirallus philippensis (Buff-banded Rail)			
294.		Gallus gallus			
295.		Gastrolobium capitatum			
296.		Gastrolobium dilatatum			
297.		Gastrolobium hookeri			
298.		Gastrolobium retusum			
299.		Gastrolobium spinosum (Prickly Poison)			
300.		Gastrolobium villosum (Crinkle-leaved Poison)			
301.	42314	Gavicalis virescens (Singing Honeyeater)			
302.	25520	Geocrinia sp.			
303. 304.		Gerygone fusca (Western Gerygone) Gladiolus caryophyllaceus (Wild Gladiolus)	Υ		
304.		Glischrocaryon angustifolium	Ī		
306.		Glyciphila melanops (Tawny-crowned Honeyeater)			
307.		Gnephosis tenuissima			
308.		Gompholobium cyaninum			
309.		Gompholobium knightianum			
			Departmen	t of Biodiversity,	WESTERN







	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
310.		Gompholobium marginatum			
311.		Gompholobium polymorphum			
312.		Gompholobium preissii			
313.		Gompholobium shuttleworthii  Compholobium tomantosum (Hain Vallou Page)			
314. 315.		Gompholobium tomentosum (Hairy Yellow Pea) Gonocarpus cordiger			
316.		Gonocarpus pithyoides			
317.		Goodenia coerulea			
318.		Goodenia fasciculata			
319.		Goodenia micrantha			
320.		Goodenia pulchella			
321.		Grallina cyanoleuca (Magpie-lark)			
322.		Gratiola pubescens			
323.	19628	Grevillea bipinnatifida subsp. bipinnatifida			
324.	1997	Grevillea endlicheriana (Spindly Grevillea)			
325.	13450	Grevillea manglesii subsp. manglesii			
326.	2066	Grevillea pilulifera (Woolly-flowered Grevillea)			
327.		Grevillea quercifolia (Oak-leaf Grevillea)			
328.		Grevillea synapheae subsp. synapheae			
329.		Grevillea wilsonii (Native Fuchsia)			
330.		Haemodorum discolor			
331.		Haemodorum laxum			
332.		Haemodorum paniculatum (Mardja)			
333.		Halen grintete (Spail Halen)			
334. 335.		Hakea cristata (Snail Hakea) Hakea incrassata (Marble Hakea)			
336.		Hakea lissocarpha (Honey Bush)			
337.		Hakea neospathulata			
338.		Hakea prostrata (Harsh Hakea)			
339.	2203	Hakea ruscifolia (Candle Hakea)			
340.	2206	Hakea stenocarpa (Narrow-fruited Hakea)			
341.	2215	Hakea undulata (Wavy-leaved Hakea)			
342.	2216	Hakea varia (Variable-leaved Hakea)			
343.		Halgania anagalloides			
344.		Heleioporus albopunctatus (Western Spotted Frog)			
345.		Heleioporus barycragus (Hooting Frog)			
346. 347.		Heleioporus eyrei (Moaning Frog)			
348.		Heleioporus inomatus (Whooping Frog) Heleioporus psammophilus (Sand Frog)			
349.		Heliotropium europaeum (Common Heliotrope)	Υ		
350.		Hemiandra pungens (Snakebush)	,		
351.		Hemigenia barbata			
352.	6856	Hemigenia incana (Silky Hemigenia)			
353.	29632	Hemigenia parviflora			
354.	1526	Hesperantha falcata	Υ		
355.		Hibbertia amplexicaulis			
356.		Hibbertia commutata			
357.		Hibbertia huegelii			
358.		Hibbertia hypericoides subsp. hypericoides			
359. 360.		Hibbertia Iasiopus (Large Hibbertia) Hibbertia stellaris (Orange Stars)			
361.		Hieraaetus morphnoides (Little Eagle)			
362.		Himantopus himantopus (Black-winged Stilt)			
363.		Hirundo neoxena (Welcome Swallow)			
364.		Holconia westralia			
365.	445	Holcus setiger (Annual Fog)	Υ		
366.	6222	Homalosciadium homalocarpum			
367.	3964	Hovea chorizemifolia (Holly-leaved Hovea)			
368.		Hovea trisperma (Common Hovea)			
369.		Hyalosperma cotula			
370.		Hyalosperma simplex subsp. simplex			
371.		Hybanthus floribundus subsp. floribundus			
372.		Hydrocotyle callicarpa (Small Pennywort)			
373. 374.	8086	Hypochaeris glabra (Smooth Catsear)	Υ		
374. 375.	012	Idiommata blackwalli Isolepis cyperoides			
375. 376.		Isolepis cyperolues Isolepis marginata (Coarse Club-rush)			
377.	017	Isopeda leishmanni			
378.		Isopedella cana			
379.	2229	Isopogon dubius (Pincushion Coneflower)			
			Department	of Biodiversity.	WESTERN







	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
380.	19996	Isopogon sp. Darling Range (F. Hort 1662)			
381.	7396	Isotoma hypocrateriformis (Woodbridge Poison)			
382.	7399	Isotoma scapigera (Long-scaped Isotome)			
383.	19700	Isotropis cuneifolia subsp. cuneifolia			
384.	1532	Ixia maculata (Yellow Ixia)	Υ		
385.	14739	Jacksonia epiphyllum			
386.		Jacksonia furcellata (Grey Stinkwood)			
387.		Jacksonia restioides			
388.		Juncus bufonius (Toad Rush)	Y		
389.		Juncus subsecundus (Finger Rush)			
390.		Kennedia coccinea (Coral Vine)			
391.		Kennedia prostrata (Scarlet Runner)			
392. 393.		Kennedia stirlingii (Bushy Kennedia)	v		
394.		Kirckxia elatine subsp. crinita	Υ		
395.		Kingia australis (Kingia, Pulonok) Labichea lanceolata subsp. lanceolata			
396.		Labichea punctata (Lance-leaved Cassia)			
397.		Lagenophora huegelii			
398.		Lalage tricolor (White-winged Triller)			
399.		Lambertia multiflora var. darlingensis			
400.	11000	Lampona cylindrata			
401.	45082	Lasiopetalum glutinosum subsp. latifolium			
402.		Latrodectus hasseltii			
403.	11815	Laxmannia grandiflora subsp. grandiflora			
404.		Laxmannia ramosa subsp. ramosa			
405.		Laxmannia sessiliflora subsp. australis			
406.		Laxmannia squarrosa			
407.	7568	Lechenaultia biloba (Blue Leschenaultia)			
408.	7572	Lechenaultia expansa			
409.	936	Lepidosperma leptostachyum			
410.	937	Lepidosperma longitudinale (Pithy Sword-sedge)			
411.	14642	Lepidosperma obtusum			
412.	944	Lepidosperma scabrum			
413.		Lepidosperma sp.			
414.	945	Lepidosperma squamatum			
415.	1078	Leptocarpus coangustatus			
416.	46375	Leptocarpus decipiens			
417.	19833	Leptocarpus laxus			
418.	15418	Leptoceras menziesii			
419.		Leptomeria cunninghamii			
420.		Leptospermum erubescens (Roadside Teatree)			
421.		Leucopogon capitellatus			
422.		Leucopogon nutans (Drooping Leucopogon)			
423.		Leucopogon propinquus			
424.		Leucopogon pulchellus (Beard-heath)			
425. 426.		Levenhookin puella (Midrat Stylovart)			
427.		Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort)			
428.		Lichmera indistincta (Brown Honeyeater)			
429.		Lichmera indistincta (Brown Honeyeater)  Lichmera indistincta subsp. indistincta (Brown Honeyeater)			
430.		Limnodynastes dorsalis (Western Banjo Frog)			
431.		Ljunghia pulleinei subsp. aname			
432.	9289	Lobelia anceps (Angled Lobelia)			
433.		Lomandra caespitosa (Tufted Mat Rush)			
434.		Lomandra hermaphrodita			
435.		Lomandra micrantha subsp. micrantha			
436.	1236	Lomandra odora (Tiered Matrush)			
437.		Lomandra sp.			
438.	1245	Lomandra spartea			
439.	1198	Luzula meridionalis (Field Woodrush)			
440.	24132	Macropus fuliginosus (Western Grey Kangaroo)			
441.	18119	Macrozamia fraseri			
442.		Macrozamia riedlei (Zamia, Djiridji)			
443.		Malurus splendens (Splendid Fairy-wren)			
444.		Manorina flavigula (Yellow-throated Miner)			
	19421	Marianthus bicolor (Painted Marianthus)			
445.					
445. 446.	17637	Marianthus candidus (White Marianthus)			
445. 446. 447.	17637	Marianthus coeruleopunctatus (Blue-spotted Marianthus)			
445. 446.	17637 17636				







	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
450.	5926	Melaleuca lateritia (Robin Redbreast Bush)			
451.	5959	Melaleuca rhaphiophylla (Swamp Paperbark)			
452.	5980	Melaleuca thymoides			
453.	13280	Melaleuca viminea subsp. viminea			
454.	47997	Melanodryas cucullata (Hooded Robin)			
455.		Melilotus indicus	Y		
456.		Melithreptus brevirostris (Brown-headed Honeyeater)			
457.		Melithreptus chloropsis (Western White-naped Honeyeater)			
458.		Melopsittacus undulatus (Budgerigar)			
459.		Merops ornatus (Rainbow Bee-eater)			
460.		Mesomelaena tetragona (Semaphore Sedge)			
461.		Microeca fascinans (Jacky Winter)			
462. 463.		Millotia tenuifolia (Soft Millotia)			
464.		Millotia tenuifolia var. tenuifolia (Soft Millotia) Milvus migrans (Black Kite)			
465.	20042	Missulena granulosa			
466.		Missulena hoggi			
467.		Missulena occatoria			
468.	37440	Monopsis debilis var. depressa	Υ		
469.		Morelia spilota subsp. imbricata (Carpet Python)	,		
470.		Morethia obscura			
471.		Myiagra inquieta (Restless Flycatcher)			
472.		Myriophyllum tillaeoides			
473.		Narcissus papyraceus	Υ		
474.		Narcissus tazetta subsp. italicus	Υ		
475.	25248	Neelaps bimaculatus (Black-naped Snake)			
476.	25426	Neobatrachus pelobatoides (Humming Frog)			
477.	24738	Neophema elegans (Elegant Parrot)			
478.	492	Neurachne alopecuroidea (Foxtail Mulga Grass)			
479.	24407	Ocyphaps lophotes (Crested Pigeon)			
480.	2365	Olax benthamiana			
481.	8127	Olearia axillaris (Coastal Daisybush)			
482.	8143	Olearia paucidentata (Autumn Scrub Daisy)			
483.		Ommatoiulus moreleti			
484.		Opercularia echinocephala (Bristly Headed Stink Weed)			
485.		Opercularia vaginata (Dog Weed)			
486.		Ornduffia albiflora			
487.		Orthrosanthus laxus var. gramineus (Grass-leaved Orthrosanthus)			
488.		Oryctolagus cuniculus (Rabbit)	Y		
489.		Oxalis purpurea (Largeflower Wood Sorrel)	Υ		
490.		Pachycephala rufiventris (Rufous Whistler)	V		
491. 492.		Papaver rhoeas (Field Poppy)  Parasuta gouldii	Υ		
492.		Parasuta nigriceps			
494.		Pardalotus punctatus (Spotted Pardalote)			
495.		Pardalotus striatus (Striated Pardalote)			
496.		Patersonia babianoides			
497.		Patersonia juncea (Rush Leaved Patersonia)			
498.		Patersonia rudis (Hairy Flag)			
499.		Patersonia rudis subsp. rudis			
500.	6245	Pentapeltis peltigera			
501.		Persicaria prostrata			
502.	2255	Persoonia angustiflora			
503.	2262	Persoonia elliptica (Spreading Snottygobble)			
504.	48060	Petrochelidon ariel (Fairy Martin)			
505.	48061	Petrochelidon nigricans (Tree Martin)			
506.	48066	Petroica boodang (Scarlet Robin)			
507.	24659	Petroica goodenovii (Red-capped Robin)			
508.		Petrophile serruriae			
509.		Petrophile striata			
510.		Phalacrocorax sulcirostris (Little Black Cormorant)			
511.		Phaps chalcoptera (Common Bronzewing)			
512.		Pheladenia deformis			
513.		Philotheca spicata (Pepper and Salt)			
514.		Philydrella drummondii  Philydrella pyrmana (Buttarfly Flowers)			
515.		Philydrella pygmaea (Butterfly Flowers)  Phylidenyria piger (White checked Heneyester)			
516. 517.		Phylidonyris niger (White-cheeked Honeyeater) Phylidonyris novaehollandiae (New Holland Honeyeater)			
517.		Phyllangium divergens			
519.		Phyllangium paradoxum			
3.0.		, , , , , , , , , , , , , , , , , , , ,	Department Conservati	of Biodiversity,	WESTERN







1.50   1.50		Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
1925		4675	,			
S221		2408				
			-			
1906   1914   Protein promises and content on a comparison	524.					
S22.   S29.   Primaries primaries	525.	11928	Pimelea ciliata subsp. ciliata			
1-2011   Printing sourcedons autory autorealism   1-2012   Printing sourcedons autory autorealism   1-2013   Printing sourcedons autory autorealism   1-2013   Printing sourcedons autory autorealism   1-2014   Printing sourcedons autorealism   1-2014   Printing sourcedons autorealism   1-2014   Printing sourcedons autorealism   1-2015   Printing source autorealism   1-2016   Printing sourcedons autorealism   1-2017   Printing sourcedons autorealism   1-2017   Printing sourcedons autorealism   1-2016   Printing sou			· · ·			
			•			
SS1.   2572   Paliparana intended (Washin Roughly)   SS1.   2572   Paliparana zonatria (Australian Roughly)   SS2.   2572   Paliparana zonatria (Australian Roughly)   SS3.   2573   Paliparana zonatria (Australian Roughly)   SS3.   2573   Paliparana zonatria (Australian Roughly)   SS3.   2573   Paliparana intended zonatria (Australian SS3.   2573   Paliparana intended zonatria andrea, zonatria   SS3.   2573   Paliparana intended zonatria andrea zonatria   SS3.   2573   Paliparana intended zonatria andrea zonatria   SS3.   3573   Paliparana intended zonatria   SS3.   3573   Paliparana intended zonatria andrea zonatria   SS3.   3573   Paliparana intended zonatria   SS3.   3574   Paliparana intended zonatria   SS3.   2574   Paliparan						
SS1.   24/47   Poliphyranua sportus (Priorit Approximation)						
55.32         2572 Filly Polycoccus consulus (Automation Fingrond), Proceeding Formation           55.33         2571 Filly Polycoccus consulus subseque, consulus print ancent Person           55.35         2572 Filly Automation (Automation Front)           55.37         2572 Policy Automation (Automation Front)           55.37         2572 Policy Policy print and (Medding Front)           55.37         2572 Policy Policy print (Medding Front)           55.38         8178 Policy Policy print (Medding Front)           54.1         8188 Policy Policy print (Medding Front)           54.1         8188 Policy Policy print (Medding Front) Production           54.2         24881 Policy policy print (Frontiar Altorut)         Y           54.2         24881 Policy policy print (Medical Production)         Y           54.2         24881 Policy p						
534.   6200 Parkyware tenes   537.   Past attermorations (Potolital Phas)	532.					
535.         517. Peas drammondation (protection for hos)           537.         45277. Poscoping interfest soding institute           538.         8179. Poscoping institute (Search Protecting)           539.         8179. Poscoping institute (Search Protecting)           540.         Posity Spring institution (Search Protecting)           541.         8188. Poscoping institution (Search Protecting)           542.         2488. Poscoping institution (Search Protection (Search Protection)           543.         2515. Poscoping institution (Search Protection)           544.         2288. Poscoping institution (Search Protection)           545.         2488. Poscoping institution (Search Protection)           546.         2488. Poscoping institution (Search Protection)           547.         2213. Poscoping institution (Search Protection)           548.         151. Poscoping institution (Search Protection)           549.         151. Poscoping institution (Search Protection)           540.         151. Poscoping institution (Search Protection)           550.         1608. Poscoping institution (Search Protection)           551.         1676. Poscoping institution (Search Protection)           552.         251. Poscoping institution (Search Protection)           553.         251. Poscoping institution (Search Protection)           554. <td>533.</td> <td>24751</td> <td>Platycercus zonarius subsp. zonarius (Port Lincoln Parrot)</td> <td></td> <td></td> <td></td>	533.	24751	Platycercus zonarius subsp. zonarius (Port Lincoln Parrot)			
531.   257.3   Polithique administrat souther, inclinations						
538.         617.P. Procisionia caractar (Sectiona)           539.         517.P. Procisionia (Esphania)           540.         Provincia (Esphania)           541.         518.P. Propriegio actics           542.         2460.P. Procisionalis (Policy Procisional Policy Procisional Alborotis)           543.         Public Sectionalis           544.         2905.P. Projection (Eschapithers (Policy Alborotis)           545.         2463.P. Procisionalis (Sectional Procisional Alborotis)           546.         468.P. Procisionalis (Sephania)           547.         2213.P. Projectional Experimental Procisionalis           548.         117. Procisional Information (Policy Processed)           549.         167. Procephyllan (Sectional Processed)           540.         167. Procephyllan Indicate (Policy Processed)           551.         1675.Procephyllan Indicate (Policy Indicate)           552.         Processed anticological anticological (Policy Indicate)           553.         25551.Procephyllan Indicate (Policy Indicate)           554.         25252. Processed anticological anticological (Policy Indicate)           555.         24253.Procephyllan anticological (Policy Indicate)           556.         24253.Procephyllan anticological (Policy Indicate)           556.         24253.Procephyllan anticological (Policy Indicate)						
539. 817P. Prochopin natural y Montaling Packelogia 541. 8188 Proporciogna attocta 542. 24681 Prolinocophalias policocophalias (Polony Neudral Grobo) 543. Phily surfacionas approximation (Polony Neudral Grobo) 544. 2005. Prolyvaryori Intragrity/Ilum (Fourleaf Allased) 545. 24685 Pramisticas approximations (Polony Neudral Grobo) 546. 4569 Pramisticas microphylia (Sirnal Proarthera) 547. 25731 Prophylia organica (Sirnal Proarthera) 548. 111 Pramisticas microphylia (Sirnal Proarthera) 549. 1571 Pransporty and attem (Fall Corticul) 550. 16669 Pransporty and attem (Fall Corticul) 550. 16669 Pransporty and attem (Fall Corticul) 551. 1571 Pransporty and attem (Fall Corticul) 552. Protectional and attem (Fall Corticul) 553. 2551 Premissional princip (Digita) 554. 25529 Peaudonalga affiritis abubay affiritis (Digita) 555. 2553 Peaudonalga affiritis abubay affiritis (Digita) 556. 2553 Peaudonalga affiritis abubay affiritis (Digita) 557. 1572 Prochago proceeding Totale) 558. 1582 Proceeding practicular (Corticul) 559. 1582 Proceeding practicular (Corticul) 550. 2712 Prillion and another (Corticul) 550. 2712 Prillion de anothera (Corticul) 551. 1583 Proceeding anothera (Corticul) 552. 1583 Proceeding anothera (Corticul) 553. 2714 Prillion de anothera (Corticul) 554. 1585 Proceeding anothera (Corticul) 556. 1585 Proceeding anothera (Corticul) 557. 1585 Proceeding anothera (Corticul) 558. 1784 Prillion demonstratific (Princip Allanda) 569. 1785 Proceeding anothera (Corticul) 570. 2584 Prillion anothera (Corticul) 571. 1585 Proceeding anothera (Corticul) 572. 1585 Proceeding anothera (Corticul) 573. 1585 Proceeding anothera (Corticul) 574. 1585 Proceeding anothera (Corticul) 575. 1586 Prillion anothera (Corticul) 577. 1587 Prillion anothera (Corticul) 578. 1587 Prillion anothera (Corticul) 579. 1587 Prillion anothera (Corticul) 579. 1587 Prillion anothera (Corticul) 579. 1588 Prillion anothera (Corticul) 579. 1589 Prillion anothera (Corticul) 579. 1589 Prillion anothera (Corticul) 579. 1589 Prillion anothera (Corticul) 579. 1						
541						
542   24611 Pulnocaphalus policosphalus (1900)-haaded Grabe)	540.					
543.	541.	8188	Pogonolepis stricta			
544.   2905 Polycarpon tetraphyllum (Fourther Allisedt)   Y		24681				
545.         24803 Promitostomus supervillosus (White Invended Babbler)           541.         25731 Pephytrio porphytrio (Purple Swamphen)           542.         25731 Pephytrio porphytrio (Purple Swamphen)           543.         1111 Pratanospator ochreatis (Blant Pranthevar)           549.         16717 Praechytrium oillant (Tall Lake Orbrid)           550.         16668 Praechyfluru gradie           551.         1676 Praechyfluru francis (Varwing Lopk Orbrid)           552.         Prosthermacha subamata         Y           553.         2511 Peautoriagia affinia (Rugitle)           554.         25299 Peautoriagia affinia (Rugitle)           555.         25433 Peautoriagia manghan (Merambat Bruna Swaka)           556.         25439 Peautoriagia manghan (Merambat Bruna Swaka)           557.         13255 Pearochaeta particulsia           558.         1639 Prantypis sanghuma           559.         12217 Piarochaeta particulsia           551.         2718 Piliotus accumandus (Marchidal Mulla)           551.         2718 Piliotus accumandus (Marchidal Mulla)           552.         2718 Piliotus accumandus (Marchidal Mulla)           553.         2718 Piliotus accumandus (Marchidal Mulla)           554.         2718 Piliotus accumandus (Marchidal Mulla)           555.         Papurineph		2005	•	V		
548.   4691   Paranthran microphylia (Small Paranthran)				Y		
547.         25/31 Pophytip porphytic (Purpla Swamphan)           548.         111 Polatorophytim elatum (Tall Leak Orchid)           550.         1688 Prasophytium elatum (Tall Leak Orchid)           551.         1676 Prasophytium dinaris (Yawring Leak Orchid)           552.         Proshermacha subarnata         Y           553.         2551 Pounding affinis (Duglia)         Y           554.         2559 Pounding affinis (Duglia)         Y           555.         42416 Pounding imagodin (Matematica)         Y           556.         2533 Peurdophyne quantient (Crowling Toallet)         Y           557.         1325 Peurdophyne quantient (Crowling Toallet)         Y           558.         1633 Peurdophyne quantient (Crowling Toallet)         Y           559.         12217 Petrostyks sanguinea         Y           560.         2716 Pilotos decentralus (Curved Mullia Mullia)         Y           561.         2717 Pilotos decentralus (Curved Mullia Mullia)         Y           562.         2718 Pilotos decentralus (Curved Mullia Mullia)         Y           563.         2719 Pilotos decentralus (Curved Mullia Mullia)         Y           564.         23217 Peyrochia demporare         Pupcurie demporare           565.         Pupcurie demporare         Y			, , , , , , , , , , , , , , , , , , , ,			
549.   1679   Prasophylum latur (Tall Leek Orchid)						
	548.	111	Potamogeton ochreatus (Blunt Pondweed)			
551.   1676 Prasophyllum hinata (Yawning Leek Orchid)   552.   Proshermach a ubermata   Y   553.   25511 Previously aid mile (Ungile)	549.	1671	Prasophyllum elatum (Tall Leek Orchid)			
552						
553.         25511         Pseudonaja affinis (Dugite)           554.         25259         Pseudonaja affinis subsp. affinis (Dugite)           555.         42416         Pseudonaja mengdani (Wisstern Brown Snake)           557.         13255         Pferoatylis rocurva (Jug Orchid)           558.         1693         Plarostylis rocurva (Jug Orchid)           559.         12217         Pferoatylis rocurva (Jug Orchid)           560.         2718         Pilotius declimatus (Curved Mulla Mulla)           561.         2718         Pilotius declimatus (Curved Mulla Mulla)           562.         11260         Pilotius manglesi (Pom Poms, Mulamula)           563.         2742         Pilotius manglesi (Pom Poms, Mulamula)           564.         32417         Pytolostomum angustifolium           565.         Pucrpureicephalus spurus           566.         Purpureicephalus spurus           567.         16367         Pyrotehis Ingiratus (Flack Rat)         Y           568.         24248         Ratus artus (Flack Rat)         Y           569.         48096         Rhiphidura abioscapa (Grey Fantali)         Y           571.         13300         Rhodanithe citina         Y           572.         15055         Khodanithe citin		1676	, , ,			V
654.         2529         Pseudonaja affinis subsp. affinis (Dugle)           555.         42416         Pseudonaja mengdeni (Western Brown Snake)           556.         13255         Plerochaeta paniculata           559.         1639         Plerostylis sanguinea           560.         2716         Pilotus deurinatus (Curved Mulia Mulia)           561.         2718         Pilotus drumnondi Var. drummondii Psusylaij           562.         11260         Pilotus drumnondii Var. drummondii Psusylaij           563.         2742         Pilotus drumnondii Var. drummondii Psusylaij           564.         32417         Pychostorum angustifolium           565.         Pupcinia dampierae           566.         Pupcinia dampierae           567.         16387         Pyrochis Ingireans (Red beaks, Elephants ears)           568.         24245         Ratius artius (Eleck Rat)         Y           569.         48096         Rhipidura albiscapa (Grey Fantal)         Y           570.         25614         Hajumar Buscophnys (Wille Wagtal)           571.         15035         Hodanthe citrina         Y           572.         15035         Hodanthe citrina         Y           573.         19424         Ryidosperma caepaliosum		25511				Ť
555.       42416       Pseudonja mengdeni (Western Brown Snake)         566.       25433       Pseudophyme guantheri (Crawling Toudiet)         557.       13255       Pieroshylis recurva (Jug Orchid)         559.       12217       Plenoshylis sanguinea         560.       2716       Pilotus declinatus (Curved Mulla Mulla)         561.       2718       Pilotus drummordi (Marrowleal Mulla Mulla)         562.       11260       Pilotus manglesi (Pom Poms, Mulamula)         563.       22742       Pilotus manglesi (Pom Poms, Mulamula)         564.       32417       Prybrostomum angustifolium         565.       Pucprinciphalus spurius         566.       Purprinciphalus spurius         567.       16337       Prytoris ingireans (Red beaks, Elephants ears)         568.       24245       Rattus rattus (Black Rat)       Y         569.       48096       Rhiphdura albiciscapa (Grey Fantai)       Y         570.       25614       Protectival eucophrys (Wille Wagtat)         571.       13300       Rhodanthe corymbosa         573.       15035       Rhodanthe corymbosa         574.       1565       Romiteoresa (Guilderd Grass)       Y         575.       40428       Ryidosperma caepitoum						
557.       13255       Plerochieta paniculata         558.       1683       Plerockylis recurva (Jug Orchid)         559.       12217       Plerotus decinatus (Curved Mulla Mulla)         560.       2718       Plitotus drummondii (Narowleaf Mulla Mulla)         561.       2742       Plitotus drummondii (Pusystail)         563.       2742       Plitotus drummondii (Pusystail)         564.       32417       Pyropricophabus spurius         565.       Pucpuricophabus spurius         566.       Purpuricophabus spurius         567.       16387       Pyrocribis inigicana (Rab de bake, Elephants ears)         568.       24245       Rattus rattus (Black Rat)       Y         569.       48096       Rhipidura albicespa (Grey Fantall)       Y         570.       25614       Athipidura leucophys (Wille Wegtall)       Y         571.       13300       Rhodenthe curina       Y         572.       15035       Fhordenthe corymbosa       Y         573.       19942       Ricinocarpos undulatus       Y         574.       1556       Romulea rosea (Guildford Grass)       Y         575.       40426       Rytidosperma coepitusum       Y         576.       40426						
558.       1693 Pterostylis recurva (Jug Orchid)         559.       12217 Pterostylis sanguinea         560.       2714 Pilotus declinatus (Curved Mulla Mulla)         561.       2718 Pilotus durmmondii (Narrowiest Mulla Mulla)         562.       11260 Pilotus durmmondii (Narrowiest Mulla Mulla)         563.       2712 Pilotus manglasi (Pom Poms, Mulamula)         564.       32417 Plychostomum angustiolium         565.       Purpureicephalus spurius         566.       Purpureicephalus spurius         567.       16367 Pyrorchis nigricans (Red beaks, Elephants ears)         568.       24245 Rattus rattus (Black Rat)       Y         569.       48066 Rhipidura albicacapa (Grey Fantail)       Y         570.       25614 Phipidura elbicacapa (Grey Fantail)       Y         571.       13300 Rhodanthe citrina       Y         572.       15035 Hhodanthe citrina       Y         573.       19942 Pilcinocarpos undulatus       Y         574.       1558 Romilea rose (Guildord Grass)       Y         575.       40425 Rytidosperma caespitosum       Y         576.       40426 Rytidosperma occidentale       Y         577.       6929 Sakiav avrehnaca (Milk Sage)       Y         578.       738 Scabiosa atropurpurea (Purp	556.	25433	Pseudophryne guentheri (Crawling Toadlet)			
559.         12217 Pterostytis sanguinea           560.         2716 Pilotus decimatus (Curved Mulia Mulia)           561.         2718 Pilotus driummondi (Narowkeat Mulia Mulia)           562.         11260 Pilotus driummondi (Var drummondii (Pusytaii)           563.         2742 Pilotus manglesi (Pom Poms, Mulamule)           564.         32417 Pychostomum angustollum           565.         Puccinia dampierae           566.         Pupureicephalus spurius           567.         18367 Pyrortichis nigircans (Rod beaks, Elephants ears)           568.         24245 Rattus rattus (Black Raf)           569.         48096 Rhipidura eluiscape (Grey Fantaii)           571.         13300 Rhodanthe citrina           572.         15035 Rhodanthe corymbosa           573.         19942 Ricinocarpos undutatus           574.         1556 Romulea rosea (Guildford Grass)         Y           575.         40425 Rylidosperma caespitosum           576.         40425 Rylidosperma caespitosum           577.         6929 Salvia verbenaca (Wild Sage)         Y           578.         7368 Scalvola aliquer (Viscid Hand-flower)           581.         7619 Scaevola aliqueria (Viscid Hand-flower)           582.         7655 Scaevola platyphylia (Broad-leaved Fanflower) <td< td=""><td></td><td>13255</td><td>Pterochaeta paniculata</td><td></td><td></td><td></td></td<>		13255	Pterochaeta paniculata			
560.       2716       Ptilotus declinatus (Curved Mulla Mulla)         561.       27178       Ptilotus drummondii (Narrowleaf Mulla Mulla)         562.       11260       Ptilotus drummondii (Varsowleaf Mulla Mulla)         563.       2742       Ptilotus margiesii (Pom Poms Mulamula)         564.       32417       Pychostormum angustifolium         565.       Pucprialosphalus spurius         567.       16367       Pyrorchis ingricans (Red beaks, Elephants ears)         568.       24245       Rattus ratus (Black Rat)       Y         569.       48096       Rhipidura albiscapa (Grey Fantail)       Y         570.       25611       Rhipidura eluscophrys (Willie Wagtail)       Y         571.       13300       Rhodanthe corymbosa       Y         572.       15035       Rhodanthe corymbosa       Y         573.       19942       Ricinocarpos undulatus       Y         574.       1556       Romulea rosea (Guildford Grass)       Y         575.       40428       Rylidosperma esceletatale       Y         577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7388       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602						
561. 2718 Ptilotus drummondii (Narrowleaf Mulla Mulla) 562. 11260 Ptilotus drummondii var. drummondii (Pussytali) 563. 2742 Ptilotus manqlesii (Pom Poms, Mulamula) 564. 32417 Ptychostomum angustifolium 565. Puccinia dampierae 566. Puruprieophalus spurius 567. 16367 Pyrorchis nigricans (Red beaks, Elephants ears) 568. 24245 Rattus rattus (Black Rat) 570. 26514 Ahlpridura albiscapa (Grey Fantali) 571. 13300 Rhodanthe othnia 572. 15035 Rhodanthe othnia 572. 15035 Rhodanthe corymbosa 573. 19942 Ricinocarpos undulatus 574. 1556 Romulea rosea (Guildford Grass) 575. 40425 Rytidosperma caespitosum 576. 40426 Rytidosperma caespitosum 577. 6392 Salvia verbenaca (Wild Sage) 578. 7388 Scabiosa alropurpurea (Purple Pincushion) 579. 7602 Scaevola glandulitera (Viscid Hand-flower) 581. 7619 Scaevola glandulitera (Viscid Hand-flower) 582. 7635 Scaevola glandulitera (Viscid Hand-flower) 583. 7636 Scaevola platyphylla (Broad-leaved Fanflower) 584. 13182 Scaevola platyphylla (Broad-leaved Fanflower) 585. Schicephyllum commune 586. 975 Schoenus survirolius 587. 984 Schoenus survirolius 588. 10102 Schoenus survirolius 589. 1018 Schoenus survirolius						
562.       11260 Pillotus drummondii var. drummondii (Pussytail)         563.       2742 Pillotus manglesii (Pom Poms, Mulamula)         565.       32417 Plychostomum angustifolium         565.       Pucuriia dampierae         566.       Purpureicephalus spurius         567.       16367 Pyrorchis nigricans (Red beak, Elephants ears)         568.       24425 Ratlus ratlus (Black Ral)       Y         569.       48096 Rhipidura albiscapa (Grey Fantail)       Y         570.       25514 Rhipotura leucophys (Willio Wagtail)       ***         571.       13300 Rhodanthe citrina       ***         572.       15035 Rhodanthe corymbosa       ***         573.       19942 Ricinocarpos undulatus       ***         574.       1556 Romulea rosea (Guildord Grass)       Y         575.       40428 Rylidosperma cocidentala       ***         577.       6929 Salvia verbenaca (Will Sage)       Y         578.       7368 Scabiosa atropurpurae (Purple Pincushion)       Y         579.       7602 Scaevola glandulifera (Viscid Hand-flower)         581.       7613 Scaevola glandulifera (Viscid Hand-flower)         582.       7635 Scaevola pilosa (Hairy Fan-flower)         583.       7636 Scaevola pilosa (Hairy Fan-flower)         584. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
564.       32417       Plychostonum angustifolium         565.       Puccinia dampierae       Puccinia dampierae         567.       16367       Pyrorchis nigricans (Red beaks, Elephants ears)         568.       24245       Rattus rattus (Black Rat)       Y         569.       48096       Rhipidura albiscapa (Grey Fantail)       Y         570.       25614       Hipidura albiscapa (Grey Fantail)       Y         571.       13300       Rhodanthe citrine       ***         572.       15035       Rhodanthe corymbosa       ***         573.       19942       Ricinocarpos undulatus       ***         574.       1566       Romulea rosea (Guildford Grass)       Y         575.       40425       Rytidosperma caespitosum       ***         576.       40426       Rytidosperma caespitosum       ***         577.       6829       Saviva verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pircushion)       Y         579.       7602       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola placeolata (Long-leaved Scaevola)         582.       7635       Scaevola placeolata (Long-leaved Fanflower)         584						
565.         Puccinia dampierae           566.         Purpureicephalius spurius           567.         16367         Pyrorchis nigricans (Red beaks, Elephants ears)           568.         24248         Rattus rattus (Black Rat)         Y           569.         48096         Rhipidura albiscapa (Gray Fantali)         Y           570.         25614         Rhipidura leucophrys (Willie Wagtail)           571.         13300         Rhodanthe citrina         ***           572.         15035         Rhodanthe corymbosa         ***           573.         19942         Ricinocarpos undulatus         **           574.         1568         Romulea rosea (Guidford Grass)         Y           575.         40425         Rytidosperma caespitosum         **           576.         40426         Rytidosperma cocidentale         ***           577.         6929         Salvia verbenaca (Wild Sage)         Y           578.         7368         Scaevola calliptera         ***           580.         7613         Scaevola calliptera         ***           581.         7619         Scaevola pilosa (Hairy Fan-flower)         ***           582.         7635         Scaevola pilosa (Hairy Fan-flower)         **	563.	2742	Ptilotus manglesii (Pom Poms, Mulamula)			
566.         Pupureicephalus spurius           567.         16367 Pyrorchis nigicans (Red beaks, Elephants ears)           568.         24245 Rattus rattus (Black Rat)         Y           569.         48096 Rhipidura albiscapa (Grey Fentail)         Y           570.         25614 Rhipidura leucophrys (Willie Wagtail)         Y           571.         13300 Rhodanthe ctrina         ***           572.         15035 Rhodanthe corymbosa         ***           573.         19942 Ricinocarpos undulatus         ***           574.         1556 Romulea rosea (Guildford Grass)         Y           575.         40425 Rytidosperma cacepitiosum         ***           576.         40426 Rytidosperma cacepitiosum         ***           577.         6929 Salvia verbenaca (Wild Sage)         Y           578.         7368 Scabiosa atropurpurea (Purple Pincushion)         Y           579.         7602 Scaevola calliptera         ***           581.         7619 Scaevola palutilifera (Viscid Hand-flower)           582.         7635 Scaevola pilosa (Hairy Fan-flower)           583.         7636 Scaevola pilosa (Hairy Fan-flower)           584.         13182 Scaevola pilosa (Hairy Fan-flower)           585.         Schizophyllum commune           586.	564.	32417	Ptychostomum angustifolium			
567.       16367       Pyrorchis nigricans (Red beaks, Elephants ears)         568.       24245       Rattus rattus (Black Rat)       Y         569.       48096       Rhipidura albiscapa (Grey Fantail)         570.       25614       Hrhipdura leucophrys (Wille Wagtail)         571.       13300       Rhodanthe ctrina         572.       15035       Hrhodanthe corymbosa         573.       19942       Ricinocarpos undulatus         574.       1556       Romulea rosea (Guildford Grass)       Y         575.       40425       Rytidosperma occidentale         577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola alluftera         580.       7613       Scaevola gliandulffera (Viscid Hand-flower)         581.       7619       Scaevola pilosa (Hairy Fan-flower)         582.       7635       Scaevola pilosa (Hairy Fan-flower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bilīdus         587.       984       Schoenus curvifolius <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
568.       24245       Rattus rattus (Black Rat)       Y         569.       48096       Rhipidura albiscapa (Grey Fantail)         570.       25614       Rhipidura leucophrys (Willie Wegtail)         571.       13300       Rhodanthe corymbosa         572.       15035       Rhodanthe corymbosa         573.       19942       Ricinocarpos undulatus         574.       1556       Romulea rosea (Guildford Grass)       Y         575.       40425       Rytidosperma caespitosum         576.       40426       Rytidosperma caespitosum         577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola calliptera         580.       7613       Scaevola glandulifora (Viscid Hand-flower)         581.       7619       Scaevola pilosa (Hairy Fan-flower)         582.       7635       Scaevola pilosa (Hairy Fan-flower)         583.       7636       Scaevola pilosa (Hairy Fan-flower)         584.       13182       Scaevola pilosa (Hairy Fan-flower)         587.       984       Schoenus biflidus         588.       975       Schoenus biflidus		16267				
569.       48096       Rhipidura albiscapa (Grey Fantail)         570.       25614       Khipidura leucophrys (Willie Wagtail)         571.       13300       Rhodanthe citrina         572.       15035       Khodanthe corymbosa         573.       19942       Ricinocarpos undulatus         574.       1556       Romulea rosea (Guildford Grass)       Y         575.       40425       Ryidosperma caespitosum         576.       40426       Ryidosperma cocidentale         577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola calliptera         580.       7613       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola plandulifera (Viscid Hand-flower)         582.       7635       Scaevola pilosa (Hairy Fan-flower)         583.       7636       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.				٧		
570.       25614       Khipidura leucophrys (Willie Wagtail)         571.       13300       Rhodanthe citrina         572.       15035       Khodanthe corymbosa         573.       19942       Ricinocarpos undulatus         574.       1556       Romulea rosea (Guildford Grass)       Y         575.       40425       Rytidosperma caespitosum         576.       40426       Rytidosperma occidentale         577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola calliptera         580.       7613       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola pilosa (Hairy Fan-flower)         582.       7635       Scaevola pilosa (Hairy Fan-flower)         583.       7636       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus subfascicularis				,		
572.       15035       Rhodanthe corymbosa         573.       19942       Ricinocarpos undulatus         574.       1556       Romulea rosea (Guildford Grass)       Y         575.       40425       Rytidosperma caespitosum         576.       40426       Rytidosperma occidentale         577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola calliptera         580.       7613       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola plateyntylla (Long-leaved Scaevola)         582.       7635       Scaevola plateyntylla (Broad-leaved Fanflower)         583.       7636       Scaevola plateyntylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus subfascicularis						
573.       19942       Ricinocarpos undulatus         574.       1556       Romulea rosea (Guildford Grass)       Y         575.       40425       Rytidosperma caespitosum         576.       40426       Rytidosperma occidentale         577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola calliptera         580.       7613       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola pilosa (Hairy Fan-flower)         582.       7635       Scaevola pilosa (Hairy Fan-flower)         583.       7636       Scaevola pilosa (Hairy Fan-flower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis	571.	13300	Rhodanthe citrina			
574.       1556       Romulea rosea (Guildford Grass)       Y         575.       40425       Rytidosperma caespitosum         576.       40426       Rytidosperma occidentale         577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola calliptera         580.       7613       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola planceolata (Long-leaved Scaevola)         582.       7635       Scaevola platyphylla (Broad-leaved Fanflower)         583.       7636       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis			•			
575.       40425       Rytidosperma caespitosum         576.       40426       Rytidosperma occidentale         577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola calliptera         580.       7613       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola lanceolata (Long-leaved Scaevola)         582.       7635       Scaevola pilosa (Hairy Fan-flower)         583.       7636       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis						
576.       40426       Rytidosperma occidentale         577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola calliptera         580.       7613       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola planceolata (Long-leaved Scaevola)         582.       7635       Scaevola pilosa (Hairy Fan-flower)         583.       7636       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis				Y		
577.       6929       Salvia verbenaca (Wild Sage)       Y         578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola calliptera         580.       7613       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola planceolata (Long-leaved Scaevola)         582.       7635       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis						
578.       7368       Scabiosa atropurpurea (Purple Pincushion)       Y         579.       7602       Scaevola calliptera         580.       7613       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola lanceolata (Long-leaved Scaevola)         582.       7635       Scaevola pilosa (Hairy Fan-flower)         583.       7636       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis				Υ		
580.       7613       Scaevola glandulifera (Viscid Hand-flower)         581.       7619       Scaevola lanceolata (Long-leaved Scaevola)         582.       7635       Scaevola pilosa (Hairy Fan-flower)         583.       7636       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis						
581.       7619       Scaevola lanceolata (Long-leaved Scaevola)         582.       7635       Scaevola pilosa (Hairy Fan-flower)         583.       7636       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis			•			
582.       7635       Scaevola pilosa (Hairy Fan-flower)         583.       7636       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis						
583.       7636       Scaevola platyphylla (Broad-leaved Fanflower)         584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis			,			
584.       13182       Scaevola repens var. repens         585.       Schizophyllum commune         586.       975       Schoenus bifidus         587.       984       Schoenus curvifolius         588.       1002       Schoenus nanus (Tiny Bog Rush)         589.       1018       Schoenus subfascicularis						
585.         Schizophyllum commune           586.         975         Schoenus bifidus           587.         984         Schoenus curvifolius           588.         1002         Schoenus nanus (Tiny Bog Rush)           589.         1018         Schoenus subfascicularis						
586.       975 Schoenus bifidus         587.       984 Schoenus curvifolius         588.       1002 Schoenus nanus (Tiny Bog Rush)         589.       1018 Schoenus subfascicularis		.0102				
588. 1002 Schoenus nanus (Tiny Bog Rush) 589. 1018 Schoenus subfascicularis		975				
589. 1018 Schoenus subfascicularis						
	589.	1018	Scnoenus subfascicularis	, Said ,		WESTERN







	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
590.	17409	Schoenus variicellae			
591.		Scolopendra morsitans			
592.		Selaginella gracillima (Tiny Clubmoss)			
593.		Senecio multicaulis subsp. multicaulis			
594.		Sericornis frontalis (White-browed Scrubwren)			
595. 596.		Siloxerus filifolius Siloxerus humifusus (Procumbent Siloxerus)			
597.		Siloxerus multiflorus			
598.		Simoselaps bertholdi (Jan's Banded Snake)			
599.		Smicrornis brevirostris (Weebill)			
600.		Sminthopsis dolichura (Little long-tailed Dunnart)			
601.		Sminthopsis gilberti (Gilbert's Dunnart)			
602.		Solanum hoplopetalum (Thorny Solanum)			
603.	35236	Sorghum x drummondii (Sudan Grass)	Υ		
604.	2912	Spergula arvensis (Corn Spurry)	Υ		
605.	4207	Sphaerolobium medium			
606.	4211	Sphaerolobium vimineum (Leafless Globe Pea)			
607.		Sphaerotrichopus ramosus			
608.		Stachys arvensis (Staggerweed)	Υ		
609.		Stackhousia pubescens (Downy Stackhousia)			
610.		Stenanthemum coronatum			
611.		Strepera versicolor (Grey Currawong)			
612. 613.		Stylidium amoenum (Lovely Triggerplant)			
614.		Stylidium androsaceum Stylidium ciliatum (Golden Triggerplant)			
615.		Stylidium crassifolium (Thick-leaved Triggerplant)			
616.		Stylidium dichotomum (Pins-and-needles)			
617.		Stylidium diuroides (Donkey Triggerplant)			
618.		Stylidium eriopodum			
619.	7736	Stylidium hispidum (White Butterfly Triggerplant)			
620.	7742	Stylidium inundatum (Hundreds and Thousands)			
621.	7749	Stylidium leptophyllum (Needle-leaved Triggerplant)			
622.		Stylidium petiolare (Horn Triggerplant)			
623.		Stylidium piliferum (Common Butterfly Triggerplant)			
624. 625.		Stylidium pubigerum (Yellow Butterfly Triggerplant)			
626.		Stylidium pycnostachyum (Downy Triggerplant) Stylidium repens (Matted Triggerplant)			
627.		Stylidium rhynchocarpum (Black-beaked Triggerplant)			
628.		Stylidium roseoalatum (Pink-wing Triggerplant)			
629.	25806	Stylidium scariosum			
630.	7798	Stylidium schoenoides (Cow Kicks)			
631.		Stylidium sp.			
632.		Stylidium tenue			
633.		Stylidium tenue subsp. majusculum (Showy Fountain Triggerplant)			
634. 635.		Stylidium tenue subsp. tenue (Little Fountain Triggerplant)			
636.		Stylidium thesioides (Delicate Triggerplant) Stylidium utricularioides (Pink Fan Triggerplant)			
637.	7000	Stylopauropoides lapicidarius			Υ
638.	6476	Styphelia tenuiflora (Common Pinheath)			•
639.		Supunna picta			
640.	12914	Synaphea decorticans			
641.	2323	Synaphea gracillima			
642.		l achybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)			
643.		Tachyglossus aculeatus (Short-beaked Echidna)			
644.		Tadorna tadornoides (Australian Shelduck, Mountain Duck)			
645.		Templetonia drummondii Tetropora projeciona			
646. 647.		Tetrapora preissiana Tetraria octandra			
648.		Tetratheca confertifolia			
649.		Tetratheca hirsuta (Black Eyed Susan)			
650.		Tetratheca hirsuta subsp. hirsuta			
651.	48341	Tetratheca hirsuta subsp. viminea			
652.	4537	Tetratheca nuda			
653.	11143	Thelymitra graminea			
654.		Themeda triandra			
655.		Thomasia foliosa			
656.		Threskiornis spinicollis (Straw-necked Ibis)			
657. 658.		Thysanotus multiflorus (Many-flowered Fringe Lily) Thysanotus patersonii			
659.		Thysanotus parteus			
	.001	, , , , , , , , , , , , , , , , , , , ,	Department	of Biodiversity,	WESTERN







661. 1357 Thysanchus Inyardosus (Sarad Kingfahar) 662. 25519 Tiliqua naposa 663. 25520 Tiliqua naposa aubsp. ruposis 664. Tinyferna yarra 665. 25549 Todiramphus sanchus (Sacrad Kingfahar) 666. 1368 Trachymene plassa (Mathe Paranip) 667. 6280 Trachymene plassa (Mathe Paranip) 668. 1483 Tribonanthis longleutela (Paranip) 669. 39049 Trichia diffinis 670. 6251 Trichocore spathulata (Nativa Garbora) 671. 25521 Trichocore spathulata (Nativa Garbora) 671. 25521 Trichocore spathulata (Nativa Garbora) 671. 1362 Trichia diffinis 672. 4311 Trichia diffinis 673. 1362 Trichia diffinis 674. 4473 Interprococus brimonis (Winged Stackhouse) 675. 1139 Trifunis and the Market (Nativa Garbora) 676. 4330 Trymalian angustifolium 677. 4370 Trymalian angustifolium 677. 4371 Trymalian angustifolium 678. 33418 Trymalian angustifolium 679. 4481 Trymalian angustifolium 679. 4481 Trymalian angustifolium 679. 4481 Trymalian angustifolium 681. 24811 Trimia valor (Matheuse) 682. 2483 Underwoodsaums mili (Barling Gacko) 683. Underwoodsaums mili (Barling Gacko) 684. 3838 Underwoodsaums mili (Barling Gacko) 685. 1748 Utricularia multifolia 687. 25218 Variania multifolia 688. 7748 Utricularia multifolia 689. 2877 Vellevopolytion dialolatum (Kindina) 689. 2878 Vellevopolytion dialolatum (Kindina) 689. 2879 Vellevopolytion dialolatum (Kindina) 689. 2879 Vellevopolytion dialolatum (Kindina) 689. 2870 Vellevopolytion dialolatum (Kindina) 689. 2878 Vellevopolytion dialolatum (Kindina) 689. 2879 Vellevopolytion dialolatum (Kindina) 689. 2870 Vel		Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
862	660.		•			
683.   25207   Tilique rugoses subsp. rugoses   1794mm yarra   1865.   25549   Torthorme yarra   1866.   25549   Torthorme yarra   1866.   25549   Torthorme yarra   1866.   25549   Torthorme yarra   1867.   2680   Trachymen pikiss (Native Paranja)   2681.   2682   Trachymen pikiss (Native Paranja)   2683.   2683   Trachaelines supplicated (Ranching Turndin)   2683.   2683   Trachaelines subjectuals (Common Brastatal Possum)   2671.   26521   Trachaelines subspluids (Native Gerbera)   2671.   26521   Trachaelines subspluids (Common Brastatal Possum)   2772.   2781   Tricoryne ciation (Yallow Autumn Lily)   2673.   2782   Tricoryne humits   2783   Tricoryne hu	661.	1358	Thysanotus triandrus			
684.   Turytems yerm   685.   25543   Todiramphus annuls (Sucrad Kingfahar)   686.   6288   Trachymone pictus (Native Parsinja)   687.   6280   Trachymone pictus (Native Parsinja)   688.   483   Toknambas Inaglealad Remoking Turndin)   688.   38994   Trichia affinis   686.   4825   Trichicolin spathulata (Native Gerbera)   671.   25521   Trichosurus vulpecula (Common Brushtail Possum)   672.   4361   Trichoryne elitior (Yellow Aufumn Lly)   673.   4362   Trichopyra lumilis   674.   4737   Inperaococus brunonis (Winged Stacknouse)   675.   4381   Trymalium anguellollum   677.   4381   Trymalium anguellollum   677.   4381   Trymalium douralissimum subsp. odoralissimum   678.   4381   Trymalium douralissimum subsp. odoralissimum   679.   4881   Turnix varius (Paintod Button quali)   680.   2485   Turnix varius (Paintod Button quali)   681.   99   Typha orientalis (Butrush, Cumbungi)   682.   2485   Turnix varius (Paintod Button quali)   683.   Uricularia volubilis (Parining Bloddewort)   686.   7158   Uricularia volubilis (Parining Bloddewort)   687.   2281   Varians public (Burgara or Sand Monitor)   688.   7665   Valies trimenis   7694.   4895   Varianda public (Parining Bloddewort)   689.   2621   Varians public (Burgara or Sand Monitor)   689.   2636   Variationalis (Parining Bloddewort)   769.   689.   2634   Variationalis (Parining Bloddewort)   769.   2634   Variationalis (Parining Bloddewort)   769.   2634   Variationalis (Parining Bloddewort)   2634   2634	662.	25519	Tiliqua rugosa			
865.         26549         Toulnymeus cyanopelaia           667.         6280         Trachymene pilosa (Native Parsnip)           668.         1483         Trichorima peliosa (Native Parsnip)           669.         30904         Trichola affinis           670.         8251         Trichocima spatiulata (Native Gerbera)           671.         26521         Trichocyane lestior (Yellow Autum Lify)           673.         1362         Incoryne lumilis           674.         4737         Inspecacous brunnins (Winged Slackhouse)           675.         1139         Intimum abtractelata           676.         4839         Trymallum adelfolium var. rosmaninfolium           677.         1347         Trymallum delfolium var. rosmaninfolium           678.         3418         Trymallum adelfolium var. rosmaninfolium           678.         3418         Trymallum delfolium var. rosmaninfolium           678.         3418         Trymallum delfolium var. rosmaninfolium           679.         48147         Turnix valus (Paintol Bultor-quail)           681.         2493         Independentalis (Bultaus, Cumbung)           682.         2493         Underencedisaurus milli (Barting Gecko)           683.         2493         Underencedisaurus milli (Barting	663.	25207	Tiliqua rugosa subsp. rugosa			
666.         6228.         Trachymene pilosa (Native Paranje)           662.         1433.         Toboranthes Ionigolesta (Ranching Turndin)           669.         39094.         Trichia affinis           670.         6251.         Trichosurus vulgecula (Common Brushall Possum)           671.         25521.         Trichosurus vulgecula (Common Brushall Possum)           672.         1381.         Trocogno humilis           673.         1362.         Incoryno humilis           674.         4737.         Inplace Coccus branchis (Winged Stackhousia)           675.         1139.         Trima bibracheda           676.         4839.         Trymallum adoratismirum subep, odoratismirum           677.         33418.         Trymallum adoratismirum subep, odoratismirum           678.         33418.         Trymallum adoratismirum subep, odoratismirum           679.         48147.         Turnix varius (Painted Button-quail)           681.         99.         Typha orientalis (Butush, Cumbungi)           681.         99.         Typha orientalis (Butush, Cumbungi)           682.         24983.         Underwoodsaurus milli (Barking Gecks)           683.         Urodauus noveabrollismdiae           684.         938.08         Urinia anthemoticise subep,	664.		Tinytrema yarra			
667. 6280 Trachymene places (Native Persinp) 668. 1483 Tribonanthes iongipetals (Branching Trumfin) 669. 3994 Trichia affinis 670. 6251 Trichocime spatiwista (Native Gerbera) 671. 25521 Trichocime spatiwista (Native Gerbera) 672. 1381 Tricoryne eitalior (Yellow Aufurm Lily) 673. 1382 Incoryne eitalior (Yellow Aufurm Lily) 673. 1382 Incoryne eitalior (Yellow Aufurm Lily) 675. 1139 Trithuria bibracteata 676. 4437 Tripterococcus branchis (Winged Stackhousia) 677. 11479 Trymalium nedicilolium var. rosmanifolium 677. 13479 Trymalium eitaliolium var. rosmanifolium 678. 33418 Trymalium odoralissimum subsp. odoralissimum 679. 48147 Trima's varius (Painted Button-quaii) 680. 24851 Trima's varius (Painted Button-quaii) 681. 99 Tryba cinetalia (Butura, Lumbungi) 682. 24983 Underwoodisaurus mili (Berking Gecko) 683. Underwoodisaurus mili (Berking Gecko) 684. 38388 Usinia anthomoides subsp. anthomoides 685. 7148 Utricularia multitida 686. 7148 Utricularia vultitida 687. 22218 Varanus goddii (Bungara or Sand Monitor) 688. 7665 Velleia trinentis 689. 680. 2487 Velleicophyton dealbatum (White Cudweed) 690. 6002 Verticordia pagnilira (Law Featherflower) 691. 15434 Verticordia luegolii var. hungelii 692. 1544 Verticordia pictal (Painted Featherflower) 693. 6107 Verticordia pictal (Painted Featherflower) 694. 6109 Verticordia pictal (Painted Featherflower) 695. 15616 Verticordia pictal (Painted Featherflower) 696. 24006 Vispadabus regulus (Southern Forest Bal) 697. 4325 Vinnara juncae (Swishbush, Koweda) 698. 24006 Vispadabus regulus (Southern Forest Bal) 697. 4325 Vinnara juncae (Swishbush, Koweda) 700. 6281 Waitzia podolejie 701. 12072 Wurmbae divica subsp. aba 702. 1253 Xanthorshea graitiis (Graseful Grase Free, Mimidi) 703. 1256 Kanthorrhoea priesiis (Graseful Grase Free, Mimidi) 704. 6283 Xanthossa abtinsoniana	665.	25549	Todiramphus sanctus (Sacred Kingfisher)			
688.       1483       Tribonanthes longipetala (Branching Tiumdin)         690.       39094       Trichia affinis         671.       2551       Trichosurus vulgecula (Common Brushail Possum)         672.       1381       Triconyne elator (Yellow Auturn Lily)         673.       1382       Iracoryne humilis         674.       4737       Irapterococcus trunonis (Winged Stackhousia)         675.       1393       Tritura bitracteale         676.       4839       Trymalium apustfolium         677.       13479       Trymalium advarlassimum subsp. odoratissimum         679.       48147       Turnix varius (Fainted Button-qual)         680.       24851       Turnix varius (Fainted Button-qual)         681.       99       Typha orientalis (Buttush, Cumbung)         682.       2493       Underwoodissurus milli (Barking Gecko)         683.       Underwoodissurus milli (Barking Gecko)         684.       38388       Ursina anthemoides subsp, anthemoides       Y         685.       7148       Uricutalar multified         686.       7158       Uricutalar multified         687.       4281       Varius distribution mallital         688.       8257       Valteropolyton dealbatum (White Cudweet)	666.	6268	Trachymene cyanopetala			
669. 39094 Trichia affinis 670. 8251 Trichocline spatilutata (Native Gerbara) 671. 25521 Trichocline spatilutata (Native Gerbara) 672. 1361 Tricocyne elabior (Yelfux Autumn Lily) 673. 1362 Incocyne humilis 674. 4737 Inplerococcus brunonis (Winged Stacknousia) 675. 1139 Trithuria bibracteate 676. 1379 Trynalium registrificium 677. 13479 Trynalium elabiticium var. rosmarinifolium 677. 13479 Trynalium elabiticium var. rosmarinifolium 679. 48117 Turnix varius (Painted Button-quaii) 680. 24851 Turnix varius (Painted Button-quaii) 680. 24851 Turnix varius (Painted Button-quaii) 681. 99 Trybra orientalis (Bultuna, Cumbungi) 682. 24993 Underwoodiseurus mili (Barling Gocko) 683. Urdeaus noveaboliandine 684. 38388 Ursinia anthemoides subsp. anthemoides 685. 7148 Utricularia multifide 686. 7148 Utricularia multifide 687. 25219 Varanus gouldii (Bungarra or Sand Monitor) 688. 7655 Vellereophyton dealbatum (White Cudweed) 690. 6082 Verticordia granifilora (Claw Featberflowar) 691. 15434 Verticordia insigniis subsp. insignis 693. 6107 Verticordia pictal (Painted Featberflowar) 695. 15618 Verticordia pictal (Painted Featberflowar) 697. 4325 Viminara juricea (Swisholush, Koweda) 698. 24000 Vergaedus reguluis (Southern Forest Bat) 699. 7386 Waltzia podolepis 700. 8281 Waltzia podolepis 701. 12072 Winnara juricea (Swisholush, Koweda) 702. 1253 Xanthroniae afraisis subsp. aiba 703. 1256 Xanthroniae afraisis (Graes tree, Palga) 704. 6283 Xanthroniae afraisisi (Graes tree, Palga)	667.	6280	Trachymene pilosa (Native Parsnip)			
670. 8251 Trichocline spathulata (Native Gerhera) 671. 25521 Trichosurus vulpecula (Common Brushtali Possum) 672. 1361 Tricoryne lebtor (Yellow Autumn Lily) 673. 1362 Incoryne Inturnis 674. 4737 Inpterococcus brunonis (Winged Stackhousie) 675. 1199 Inturnia bibracteata 676. 4339 Trymalum angustifolium 677. 13478 Trymalum odoratissimum subsp. odoratissimum 678. 33418 Trymalum odoratissimum subsp. odoratissimum 679. 48147 Turnix varus (Paintale Button-quali) 680. 24851 Turnix varus (Paintale Button-quali) 681. 99 Typha orientalis (Bufush, Cumbung) 682. 24983 Unrodacus novaehollandiae 684. 38388 Ursini anthemodes subsp. natiennoides 685. 7148 Unicularia vulbilis (Twining Bladdenvort) 686. 7158 Unicularia vulbilis (Paintale Button) 687. 25218 Varanus gouldii (Bungara or Sand Montor) 688. 7665 Vallou Intinervis 689. 8257 Valloroofing root dealbatum (White Cudwead) 79 Sellou Strinervis 79 Sellou Strinervi	668.	1483	Tribonanthes longipetala (Branching Tiurndin)			
671.         25521         Trichosurus vulpecula (Common Brushtail Possum)           672.         1361         Tricoryne sidior (Yellow Autuma Lily)           673.         1362         Irocyne humis           674.         4737         Inpletococcus brunonis (Winged Stackhousia)           675.         1139         Tritunia bibracteata           676.         4393         Tyrmalium adjustifolium           677.         13479         Trymalium adjustifolium           678.         33418         Tyrmalium addustifolium var. rosmarinifolium           679.         48147         Turnix varius (Pairled Button-quali)           680.         24851         Turnix varius (Pairled Button-quali)           681.         99 Typha orientalia (Button. Quali)           682.         24983         Underwoodtsaurus milli (Barking Gecko)           683.         Urodacus novaehollandae           684.         38388         Urodacus novaehollandae           685.         7148         Utricuciania antilitida         Y           686.         7148         Utricuciania vallutifida         Y           687.         2b218         Variauria vallutifida         Y           688.         7655         Valeia trinervis         Y	669.	39094	Trichia affinis			
672.   1361 Tricoryne elatior (Yellow Autumn Lily)   673.   1362 Incoryne humins   674.   4737 Inplerococcus brunons (Winged Stackhousia)   675.   1139 Irithuria bibracteata   676.   4339 Trymalium anjustifolium   677.   34479 Trymalium anjustifolium   678.   33418 Trymalium dodraftssimum subsp. odoratissimum   679.   48114 Trumix varius (Painted Butro-quali)   680.   24881 Tumix velox (Little Button-quali)   681.   99 Typha orientalis (Butrush, Cumbungi)   682.   2493 Underwoodisaurus milli (Baring Gacko)   683.   Urdodecus novaehollandiae   684.   33388 Ursinia anthemoides subsp. anthemoides   685.   7148 Utricularia multifida   686.   7158 Utricularia valultifida   687.   22218 Varanus gouldii (Bungarra or Sand Monitor)   688.   7665 Velleia trinenvis   689.   6082 Verticordia progelli var, buegelli var, huegelli   690.   6082 Verticordia insignis subsp. insignis   691.   1543 Verticordia insignis subsp. insignis   693.   6107 Verticordia progelli var, huegelli   694.   6109 Verticordia progelli var, huegelli   695.   15618 Verticordia progelli var, huegelli   697.   4325 Vrimanaria juncea var, plumosa   698.   2400 Verticordia progelli var, huegelli   699.   736 Wahlencephylon desibatum Forest Batl   697.   4325 Vrimanaria juncea var, plumosa   698.   2400 Vespedelus regulus (Southem Forest Batl ) 699.   736 Wahlenbergia gracilenta (Annual Bluebell)   700.   828 Wartza podolepis   701.   12072 Wumbea dicica subsp. alba   702.   1253 Xanthorrhoea presisti (Graestul Grass Tree, Mimidi)   703.   1256 Xanthorrhoea presisti (Graestul Grass Tree, Mimidi)   704.   6283 Xanthosia aktinsoniana	670.	8251	Trichocline spathulata (Native Gerbera)			
673. 1362 Incoryne humilis 674. 477 Infotrococcus brunonis (Winged Stackhousia) 675. 1139 Infutura bibracteata 676. 4839 Tymalium angustifolium 677. 13479 Tymalium ledifolium var. rosmarinifolium 678. 33418 Tymalium dedifolium var. rosmarinifolium 679. 48147 Turnix varius (Painted Button-quail) 680. 24851 Turnix valox (Little Button-quail) 681. 99 Typha orientalis (Bufursh, Cumbung) 682. 24983 Underwoodisaurus milli (Barking Gecko) 683. Urodacus novaehollandiae 684. 33838 Ursinia anthemoides subsp. anthemoides 685. 7148 Utricularia multifida 686. 7148 Utricularia volubilis (Twining Bladderwort) 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Velleia trinervis 689. 7665 Velleia trinervis 689. 6802 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia huegelii var. huegelii 692. 15444 Verticordia pisanginas subsp. insignis 693. 6107 Verticordia pisanginas subsp. insignis 693. 6107 Verticordia pisanginas subsp. insignis 694. 6109 Verticordia pisanginas 695. 15618 Verticordia pisanginas 696. 24206 Vespadolus regulus (Southem Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Watzia podolopis 701. 12072 Wumboa dioica subsp. alba 702. 1253 Xanthorthoea graeliis (Graest ree, Palga) 703. 1256 Xanthorthoea graeliis (Graest ree, Palga) 704. 6263 Xanthorthoea graelis (Graest ree, Palga)	671.	25521	Trichosurus vulpecula (Common Brushtail Possum)			
674. 473 Inpharococcus brunonis (Winged Stackhousia) 675. 1139 Inthuria bibracteata 676. 4393 Tymalium negulstiolium 677. 13479 Tymalium negulstiolium var. rosmarinifolium 678. 33418 Tymalium odoralissimum subsp. odoralissimum 679. 48147 Turnix varius (Faller Bulton-quali) 680. 24851 Turnix varius (Faller Bulton-quali) 681. 99 Typha orientalis (Bultrush, Cumbung) 682. 24983 Undorevodrisaurus mili (Barking Gecko) 683. Urodacus novaehollandiae 684. 33388 Ursinia anthemoides subsp. anthemoides 685. 7148 Utricularia multifida 686. 7158 Utricularia vollitifida 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Veller apolytion dealbatum (White Cudweed) 689. 8257 Vellereophyton dealbatum (White Cudweed) 690. 6062 Verticordia grandiflora (Claw Featherflower) 691. 15434 Verticordia insignis subsp. insignis 692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia pennigera 694. 6109 Verticordia pennigera 695. 15618 Verticordia pennigera 696. 24206 Vespadelus regulus (Southem Forest Bat) 697. 4325 Viminara juncae (Swishbush, Koweta) 698. 2404 Vulpes vulpes (Red Fox) 701. 12072 Wurmbee dicica subsp. siba 702. 1253 Xanthorrhoea gracilis (Graes tree, Palga) 704. 6283 Xanthorrhoea gracilis (Graes tree, Palga) 704. 6283 Xanthorrhoea gracilis (Graes tree, Palga)	672.	1361	Tricoryne elatior (Yellow Autumn Lily)			
675.         1139         Trithuria bibracteata           676.         4839         Trymalium angustifolium           677.         13479         Trymalium edirolium var. rosmarinifolium           678.         33418         Trymalium edorafisisimum subsp. odoralisisimum           679.         48147         Turnix varius (Painted Button-quail)           680.         24851         Turnix varius (Painted Button-quail)           681.         99         Tyba onnelalis (Bufrush, Cumbung)           682.         24983         Underwoodisaurus milli (Barking Gecko)           683.         Urodacus novaehollandiae         Y           684.         38388         Ursinia anthemoides subsp. anthemoides         Y           685.         7148         Utricularia multifida         Y           686.         7159         Utricularia volubilis (Twining Bladderwort)         Y           687.         2218         Variaruas gouldin (Bungarra or Sand Monitor)         Y           688.         765         Vellier trinervis         Y           689.         8257         Vellereophyton dealbatum (While Cudweed)         Y           690.         1628         Verticordia insignis subsp. insignis           693.         16107         Verticordia piurisa (Painted Fea	673.	1362	Tricoryne humilis			
676.         4839         Trymalium angustifolium           677.         13478         Trymalium dordiolium var. rosmarinifolium           678.         33418         Trymalium dordiosismum subsp. odoratissimum           679.         48147         Turnix varius (Painted Button-quail)           680.         24851         Turnix volvo (Little Button-quail)           681.         99         Typha orientalis (Butrush, Cumbungi)           682.         24933         Undervoodisaurus milli (Barking Gecko)           683.         Urodacus novaehollandiae           684.         38388         Urisinia anthemoides subsp. anthemoides         Y           685.         7148         Utricularia multifida         Y           686.         7158         Utricularia volubilis (Twining Bladderwort)         Y           687.         25218         Varanus gouldii (Bungarra or Sand Monitor)         Y           688.         7655         Valliereophyton dealbatum (White Cudweed)         Y           690.         6082         Verticordia grandiflora (Claw Featherflower)           691.         15433         Verticordia primigerii subsp. insignis           692.         15434         Verticordia ponnigera           694.         6109         Verticordia plumosa var. plumosa	674.	4737	Tripterococcus brunonis (Winged Stackhousia)			
677. 13479 Trymalium ledifolium var. rosmarinifolium 678. 33418 Trymalium odoratissimum subsp. odoratissimum 679. 48147 Trumix varius (Painted Button-quail) 680. 24851 Trumix valox (Little Button-quail) 681. 99 Typha orientalis (Bulrush, Cumbungi) 682. 24983 Underwoodisaurus milii (Barking Gecko) 683. Urodacus novaehollandiae 684. 38388 Ursinia anthemoides subsp. anthemoides 685. 7148 Utricularia multifide 686. 7148 Utricularia multifide 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Vellea trinervis 689. 8257 Vellerophyton dealbatum (White Cudweed) 690. 6062 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia insignis subsp. insignis 692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia plumose var. plumose 694. 6109 Verticordia plumose var. plumose 695. 15618 Vericordia plumose var. plumose 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Virninaria juncea (Swishbush, Koweda) 699. 7386 Wahlendra (Anual Bluebell) 700. 8281 Waitzia podolopis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthornhoea gracilis (Gracoful Grass Tree, Mimid) 704. 6283 Xanthornhoea gracilis (Gracoful Grass Tree, Mimid) 704. 6283 Xanthornhoea gracilis (Gracoful Grass Tree, Mimid) 704. 6283 Xanthornhoea gracilis (Gracoful Grass Tree, Mimid)	675.	1139	Trithuria bibracteata			
678. 33418	676.	4839	Trymalium angustifolium			
679. 48147 Turnix varius (Painted Button-quail) 680. 24851 Turnix velox (Little Button-quail) 681. 99 Typha orientalis (Bufrush, Cumbungi) 682. 24983 Underwoodisaurus milis (Barking Gecko) 683. Urodacus novaehollandiae 684. 38388 Urisinia anthemoides subsp. anthemoides 685. 7148 Utricularia volubilis (Twining Bladderwort) 686. 7158 Utricularia volubilis (Twining Bladderwort) 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Velleia trinervis 689. 8257 Velleroophyton dealbatum (White Cudweed) Y 690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia huegelii var.	677.	13479	Trymalium ledifolium var. rosmarinifolium			
680. 24851 Turnix velox (Little Button-quail) 681. 99 Typha orientalis (Butlush, Cumbungi) 682. 24983 Underwoodisaurus milii (Barking Gecko) 683. Urodacus novaehollendiae 684. 38388 Ursinia anthemoides subsp. anthemoides Y 685. 7148 Utricularia multifida 686. 7158 Utricularia volubilis (Twining Bladderwort) 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Velleia trinervis 689. 8257 Vellerophyton dealbaturn (White Cudweed) Y 690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia integelli Var. huegelli 692. 15434 Verticordia integelli Var. huegelli 693. 6107 Verticordia pinnigera 694. 6109 Verticordia pinnigera 695. 15618 Verticordia pinnigera 696. 24206 Vespadelus regulus (Southem Forest Bat) 697. 4325 Vinnaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Y 699. 7366 Waltonbergia gracilenta (Annual Bluebell) 700. 8281 Waltzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1255 Xanthorrhoea gracilis (Graest Iree, Palga) 703. 1256 Xanthorrhoea gracilis (Graest Iree, Palga) 704. 6283 Xanthoriae alfinsoniana	678.	33418	Trymalium odoratissimum subsp. odoratissimum			
681. 99 Typha orientalis (Bulrush, Cumbungi) 682. 24983 Underwoodisaurus milii (Barking Gecko) 683. Urodacus novaehollandiae 684. 38388 Urisinia anthemoides subsp. anthemoides 685. 7148 Utricularia multifida 686. 7158 Utricularia volubilis (Twining Bladderwort) 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Velleia trinervis 689. 8257 Vellereophyton dealbatum (White Cudweed) Y 690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia husgelii var. husgelii 692. 15434 Verticordia insignis subsp. msignis 693. 6107 Verticordia pennigera 694. 6109 Verticordia pista (Painted Featherflower) 695. 15618 Verticordia plumosa var. plumosa 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Y 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dicica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preiissii (Grass tree, Palga) 704. 6283 Xanthorioa atkinsoniana	679.	48147	Turnix varius (Painted Button-quail)			
682. 24983 Underwoodisaurus milii (Barking Gecko) 683. Urodacus novaehollandiae 684. 38388 Ursinia anthemoides subsp. anthemoides 685. 7148 Utricularia multifida 686. 7158 Utricularia volubilis (Twining Bladderwort) 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Velleia trinervis 689. 8257 Vellereophyton dealbatum (White Cudweed) 690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia insignis subsp. insignis 692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia picta (Painted Featherflower) 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dicica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preisisi (Graceful Grass Tree, Palga) 704. 6283 Xanthorrhoea preisisi (Grass Iree, Palga)	680.	24851	Turnix velox (Little Button-quail)			
683. Urodacus novaehollandiae 684. 3838 Ursinia anthemoides subsp. anthemoides 685. 7148 Utricularia multifida 686. 7158 Utricularia volubilis (Twining Bladderwort) 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Velleia trinervis 689. 8257 Vellereophyton dealbatum (White Cudweed) Y 690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia insignis subsp. insignis 692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia picta (Painted Featherflower) 694. 6109 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia plumosa var. plumosa 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Y 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Watizia podolepis 701. 12072 Wurmbea dicia subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthoria atkinsoniana	681.	99	Typha orientalis (Bulrush, Cumbungi)			
684. 3838 Ursinia anthemoides subsp. anthemoides (Pitcularia multifida) 685. 7148 Utricularia multifida 686. 7158 Utricularia volubilis (Twining Bladderwort) 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Vellea trinervis 689. 8257 Vellerophyton dealbatum (White Cudweed) Py 690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia huegelii var. huegelii 692. 15434 Verticordia huegelii var. huegelii 693. 6107 Verticordia pennigera 694. 6109 Verticordia pennigera 695. 15618 Verticordia pennigera 696. 24206 Vergadelur segulus (Southem Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Py 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Wurnbea dioica subsp. alba 701. 12072 Wurnbea dioica subsp. alba 703. 1255 Xanthorinoea gracilis (Graceful Grass Tree, Mimidi) 704. 6283 Xanthosia atkinsoniana	682.	24983	Underwoodisaurus milii (Barking Gecko)			
685. 7148 Utricularia multifida 686. 7158 Utricularia volubilis (Twining Bladderwort) 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Velleia trinervis 689. 8257 Vellereophyton dealbatum (White Cudweed) Y 690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia insignis subsp. insignis 692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia petniegera 694. 6109 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia plumosa var. plumosa 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) 699. 7366 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	683.		Urodacus novaehollandiae			
686. 7158 Utricularia volubilis (Twining Bladderwort) 687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Velleia trinervis 689. 8257 Vellereophyton dealbatum (White Cudweed) Y 690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia insignis subsp. insignis 692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia pennigera 694. 6109 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia picta (Painted Featherflower) 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Y 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	684.	38388	Ursinia anthemoides subsp. anthemoides	Υ		
687. 25218 Varanus gouldii (Bungarra or Sand Monitor) 688. 7665 Velleia trinervis 689. 8257 Vellereophyton dealbatum (White Cudweed) Y 690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia insignis subsp. insignis 692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia picta (Painted Featherflower) 694. 6109 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia plumosa var. plumosa 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Y 699. 7366 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	685.	7148	Utricularia multifida			
688. 7665 Velleia trinervis 689. 8257 Vellereophyton dealbatum (White Cudweed) Y 690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia huegelii var. huegelii 692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia pennigera 694. 6109 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia picta (Painted Featherflower) 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	686.	7158	Utricularia volubilis (Twining Bladderwort)			
689. 8257 Vellereophyton dealbatum (White Cudweed)  690. 6082 Verticordia grandiflora (Claw Featherflower)  691. 15433 Verticordia huegelii var. huegelii  692. 15434 Verticordia insignis subsp. insignis  693. 6107 Verticordia pennigera  694. 6109 Verticordia picta (Painted Featherflower)  695. 15618 Verticordia plumosa var. plumosa  696. 24206 Vespadelus regulus (Southern Forest Bat)  697. 4325 Viminaria juncea (Swishbush, Koweda)  698. 24040 Vulpes vulpes (Red Fox)  700. 8281 Waltenbergia gracilenta (Annual Bluebell)  701. 12072 Wurmbea dioica subsp. alba  702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi)  703. 1256 Xanthorrhoea preissii (Grass tree, Palga)  704. 6283 Xanthosia atkinsoniana	687.	25218	Varanus gouldii (Bungarra or Sand Monitor)			
690. 6082 Verticordia grandiflora (Claw Featherflower) 691. 15433 Verticordia huegelii var. huegelii 692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia pennigera 694. 6109 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia plumosa var. plumosa 696. 24206 Vespadeljus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) 699. 7366 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	688.	7665	Velleia trinervis			
691. 15433 Verticordia huegelii var. huegelii 692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia pennigera 694. 6109 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia piumosa var. plumosa 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) 699. 7366 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Wahlenbergia gracilenta (Annual Bluebell) 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	689.	8257	Vellereophyton dealbatum (White Cudweed)	Υ		
692. 15434 Verticordia insignis subsp. insignis 693. 6107 Verticordia pennigera 694. 6109 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia plumosa var. plumosa 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes (Red Fox) Y 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	690.	6082	Verticordia grandiflora (Claw Featherflower)			
693. 6107 Verticordia pennigera 694. 6109 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia plumosa var. plumosa 696. 24206 Vespadelus regulus (Southem Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Y 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	691.	15433	Verticordia huegelii var. huegelii			
694. 6109 Verticordia picta (Painted Featherflower) 695. 15618 Verticordia plumosa var. plumosa 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Y 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	692.	15434	Verticordia insignis subsp. insignis			
695. 15618 Verticordia plumosa var. plumosa 696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Viminaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Y 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	693.	6107	Verticordia pennigera			
696. 24206 Vespadelus regulus (Southern Forest Bat) 697. 4325 Virninaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Y 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	694.	6109	Verticordia picta (Painted Featherflower)			
697. 4325 Virninaria juncea (Swishbush, Koweda) 698. 24040 Vulpes vulpes (Red Fox) Y 699. 7386 Wahlenbergia gracilenta (Annual Bluebell) 700. 8281 Waitzia podolepis 701. 12072 Wurmbea dioica subsp. alba 702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 703. 1256 Xanthorrhoea preissii (Grass tree, Palga) 704. 6283 Xanthosia atkinsoniana	695.	15618	Verticordia plumosa var. plumosa			
698. 24040 Vulpes vulpes (Red Fox) Y  699. 7386 Wahlenbergia gracilenta (Annual Bluebell)  700. 8281 Waitzia podolepis  701. 12072 Wurmbea dioica subsp. alba  702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi)  703. 1256 Xanthorshoea preissii (Grass tree, Palga)  704. 6283 Xanthosia atkinsoniana	696.	24206	Vespadelus regulus (Southern Forest Bat)			
<ul> <li>699. 7386 Wahlenbergia gracilenta (Annual Bluebell)</li> <li>700. 8281 Waitzia podolepis</li> <li>701. 12072 Wurmbea dioica subsp. alba</li> <li>702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi)</li> <li>703. 1256 Xanthorrhoea preissii (Grass tree, Palga)</li> <li>704. 6283 Xanthosia atkinsoniana</li> </ul>	697.	4325	Viminaria juncea (Swishbush, Koweda)			
<ul> <li>700. 8281 Waitzia podolepis</li> <li>701. 12072 Wurmbea dioica subsp. alba</li> <li>702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi)</li> <li>703. 1256 Xanthorrhoea preissii (Grass tree, Palga)</li> <li>704. 6283 Xanthosia atkinsoniana</li> </ul>	698.	24040	Vulpes vulpes (Red Fox)	Υ		
<ul> <li>701. 12072 Wurmbea dioica subsp. alba</li> <li>702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi)</li> <li>703. 1256 Xanthorrhoea preissii (Grass tree, Palga)</li> <li>704. 6283 Xanthosia atkinsoniana</li> </ul>	699.	7386	Wahlenbergia gracilenta (Annual Bluebell)			
<ul> <li>702. 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi)</li> <li>703. 1256 Xanthorrhoea preissii (Grass tree, Palga)</li> <li>704. 6283 Xanthosia atkinsoniana</li> </ul>	700.	8281	Waitzia podolepis			
<ul> <li>703. 1256 Xanthorrhoea preissii (Grass tree, Palga)</li> <li>704. 6283 Xanthosia atkinsoniana</li> </ul>	701.	12072	Wurmbea dioica subsp. alba			
704. 6283 Xanthosia atkinsoniana	702.	1253	Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi)			
	703.	1256	Xanthorrhoea preissii (Grass tree, Palga)			
705 0004 V (II '	704.	6283	Xanthosia atkinsoniana			
705. 6284 Xanthosia candida	705.	6284	Xanthosia candida			
706. 6285 Xanthosia ciliata	706.	6285	Xanthosia ciliata			
707. 6289 Xanthosia huegelii	707.	6289	Xanthosia huegelii			
708. 6293 Xanthosia singuliflora		6293	Xanthosia singuliflora			
709. 25765 Zosterops lateralis (Grey-breasted White-eye, Silvereye)	709.	25765	Zosterops lateralis (Grey-breasted White-eye, Silvereye)			

Conservation Codes

1. Rare of likely to become extinct
X. Presumed extinct
IA. Protected extinct
IA. Protected under international agreement
5. Other specially protected fauna
1. Priority 1
2. Priority 2
3. Priority 3
4. Priority 4
5. Priority 5





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

# APPENDIX 2 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 <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

Report created: 12/09/19 13:21:30

**Summary** 

**Details** 

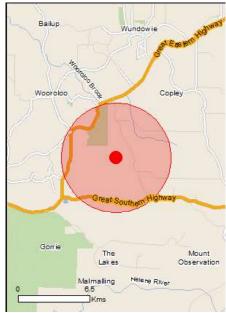
Matters of NES

Other Matters Protected by the EPBC Act

**Extra Information** 

Caveat

**Acknowledgements** 



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

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 <u>Administrative Guidelines on Significance</u>.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
<u>Listed Threatened Species:</u>	18
<u>Listed Migratory Species:</u>	9

#### Other Matters Protected by the EPBC Act

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

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

A <u>permit</u> 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.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
<u>Listed Marine Species:</u>	14
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

#### **Extra Information**

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

State and Territory Reserves:	2
Regional Forest Agreements:	1
Invasive Species:	28
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

### Details

### Matters of National Environmental Significance

Listed Threatened Species		[ Resource Information ]
Name	Status	Type of Presence
Birds		
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area
Calyptorhynchus baudinii Baudin's Cockatoo, Long-billed Black-Cockatoo [769]	Endangered	Roosting known to occur within area
Calyptorhynchus latirostris Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Mammals		
Bettongia penicillata ogilbyi Woylie [66844]	Endangered	Species or species habitat may occur within area
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area
Phascogale calura Red-tailed Phascogale, Red-tailed Wambenger, Kenngoor [316]	Vulnerable	Species or species habitat likely to occur within area
Setonix brachyurus Quokka [229]	Vulnerable	Species or species habitat may occur within area
Other		
Westralunio carteri Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat may occur within area
Plants		

Name	Status	Type of Presence
Anthocercis gracilis Slender Tailflower [11103]	Vulnerable	Species or species habitat may occur within area
Diplolaena andrewsii [6601]	Endangered	Species or species habitat may occur within area
<u>Diuris micrantha</u> Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat may occur within area
<u>Diuris purdiei</u> Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat may occur within area
Thelymitra dedmaniarum Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat may occur within area
Thelymitra stellata Star Sun-orchid [7060]	Endangered	Species or species habitat likely to occur within area
Listed Migratory Species		[ Resource Information ]
* Species is listed under a different scientific name on		
Name Migratony Marino Birdo	Threatened	Type of Presence
Migratory Marine Birds Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Common Greenshank, Greenshank [832]

Other Matters Protected by the EPBC Act		
Listed Marine Species  * Species is listed under a different scientific name on	the EPBC Act - Threatene	[ Resource Information ] d Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
Tringa nebularia		Species or species habitat

Species or species habitat likely to occur within area

#### **Extra Information**

Mammals

State and Territory Reserves	[Resource Information]
Name	State
Beechina	WA
Keaginine	WA
Regional Forest Agreements	[ Resource Information ]
Note that all areas with completed RFAs have been included.	
Name	State
South West WA RFA	Western Australia
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 Resouces Audit, 2001.

Name	Status	Type of Presence
Birds		
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis		Charles ar angeles habitet
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
Sturnus vulgaris		
Common Starling [389]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Bos taurus		
Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Funambulus pennantii Northern Palm Squirrel, Five-striped Palm Squirrel [129]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large- leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		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

Name	Status	Type of Presence
Rubus fruticosus aggregate		area
Blackberry, European Blackberry [68406]		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

#### Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

#### Coordinates

-31.84761 116.36472

#### 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.

© Commonwealth of Australia

Department of the Environment

GPO Box 787

Canberra ACT 2601 Australia

+61 2 6774 1111

## **APPENDIX 3**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.

Categories of specially protected fauna and flora are:

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

Published as Specially Protected under the *Wildlife Conservation Act 1950,* and listed under Schedules 1 to 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).

- *Threatened fauna* is that subset of 'Specially Protected Fauna' declared to be 'likely to become extinct' pursuant to section 14(4) of the Wildlife Conservation Act.
- Threatened flora is flora that has been declared to be 'likely to become extinct or is rare, or otherwise in need of special protection', pursuant to section 23F(2) of the Wildlife Conservation Act.

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 – Schedule 1

Threatened species considered to be facing an extremely high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950,* in Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

#### **EN** Endangered species – Schedule 2

Threatened species considered to be facing a very high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950,* in Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

#### VU Vulnerable species - Schedule 3

Threatened species considered to be facing a high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950,* in Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

#### EX Presumed extinct species - Schedule 4

Species which have been adequately searched for and there is no reasonable doubt that the last individual has died. Published as Specially Protected under the *Wildlife Conservation Act* 1950, in Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora.

#### IA Migratory birds protected under an international agreement - Schedule 5

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 the Bonn Convention, relating to the protection of migratory birds. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 5 of the Wildlife Conservation (Specially Protected Fauna) Notice.

#### CD Conservation dependent fauna - Schedule 6

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice.

#### OS Other specially protected fauna - Schedule 7

Fauna otherwise in need of special protection to ensure their conservation. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice.

#### P Priority species

Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened flora or fauna.

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.

#### 1 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.

#### 2 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.

#### 3 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.

#### 4 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.

A list of the current rankings can be downloaded from the Parks and Wildlife Threatened Species and Communities webpage at <a href="http://www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities">http://www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities</a>

<sup>\*</sup>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).

#### **Commonwealth of Australia Conservation Codes**

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.

# APPENDIX 4 Significant Tree Data

ree Data
katoo Breeding 1
ıtial Black Cocl
: Lakes Potent
on Road, The
Lot 13 Hort

Number 1 2 3	Species	Easting	Mortming	Height (m)		Diameter (mm	(mimi)	Ī	
1 2 3		,					2000		Notes (hollows, bees etc.)
1 2 2 3 3	-	MGA zn50	MGA zn50		DBH1	DBH2	CHIA	DBH4	(man annual annu
3	Marri ( <i>Corymbia calophylla</i> )	439741	6476099	11	1140				Burnt in May 2019, healthy, no hollows or spouts
3	Jarrah ( <i>Eucalyptus marginata</i> )	439258	6476123	10	860			1	Burnt in May 2019, healthy, no hollows or spouts
	Marri ( <i>Corymbia calophylla</i> )	439764	6476130	10	570			1	Burnt in May 2019, healthy, no hollows or spouts
4	Marri ( <i>Corymbia calophylla</i> )	439750	6476161	10	200	220		1	Burnt in May 2019, healthy, no hollows or spouts, crows(?) nest
5	Marri ( <i>Corymbia calophylla</i> )	439750	6476182	11	1050			1	Burnt in May 2019, healthy, no hollows or spouts
9	Marri ( <i>Corymbia calophylla</i> )	439710	6476178	6	099			1	Burnt in May 2019, healthy, no hollows or spouts
7	Marri ( <i>Corymbia calophylla</i> )	439748	6476197	9	1100			1	Burnt in May 2019, healthy, no hollows or spouts
8	Jarrah ( <i>Eucalyptus marginata</i> )	439828	6476192	8	720			_	Healthy, no hollows or spouts
6	Marri (Corymbia calophylla )	439857	6476209	8	1010				Burnt in May 2019, very unhealthy, lots of dead branches, no hollows or spouts
10	Marri ( <i>Corymbia calophylla</i> )	439847	6476152	6	290			1	Burnt in May 2019, healthy, no hollows or spouts
11	Marri ( <i>Corymbia calophylla</i> )	439851	6476136	6	940			1	Burnt in May 2019, healthy, no hollows or spouts
12	Marri ( <i>Corymbia calophylla</i> )	439815	6476130	10	089			1	Burnt in May 2019, healthy, no hollows or spouts
13	Marri ( <i>Corymbia calophylla</i> )	439819	6476092	6	1110				Burnt in May 2019, healthy, no hollows or spouts
14	Marri ( <i>Corymbia calophylla</i> )	439832	6476080	8	770	470	230		Burnt in May 2019, very unhealthy, lots of dead branches, no hollows or spouts
15	Marri ( <i>Corymbia calophylla</i> )	439917	6476149	8	066	870	780	1	Burnt in May 2019, healthy, no hollows or spouts
16	Marri ( <i>Corymbia calophylla</i> )	439976	6476113	6	510	200	310	270	Burnt in May 2019, unhealthy, lots dead branches, no hollows or spouts
17	Marri ( <i>Corymbia calophylla</i> )	439972	6476245	10	160			1	Burnt in May 2019, healthy, no hollows or spouts
18	Jarrah ( <i>Eucalyptus marginata</i> )	439942	6476261	10	1140				Healthy, no hollows or spouts
19	Marri ( <i>Corymbia calophylla</i> )	439994	6476280	10	710			E	Burnt in May 2019, healthy, no hollows or spouts, foraging evidence
20	Marri ( <i>Corymbia calophylla</i> )	440023	6476181	7	260			E	Burnt in May 2019, unhealthy, no hollows or spouts
21	Marri ( <i>Corymbia calophylla</i> )	440036	6476158	9	570			1	Burnt in May 2019, fairly healthy, some dead branches, no hollows or spouts
22	Marri ( <i>Corymbia calophylla</i> )	440104	6476236	10	780			I	Burnt in May 2019, fairly healthy, some dead branches, leaning, no hollows or spouts
23	Marri ( <i>Corymbia calophylla</i> )	440116	6476177	10	530			3	Burnt in May 2019, unhealthy, no hollows or spouts
24	Marri ( <i>Corymbia calophylla</i> )	440064	6476292	11	290				Burnt in May 2019, healthy, no hollows or spouts
25	Marri ( <i>Corymbia calophylla</i> )	440003	6476315	10	640				Burnt in May 2019, healthy, no hollows or spouts, some foraging evidence FRBC
26	Marri ( <i>Corymbia calophylla</i> )	440002	6476316	10	610			1	Burnt in May 2019, healthy, no hollows or spouts
27	Marri ( <i>Corymbia calophylla</i> )	439835	6476302	10	720			E	Burnt in May 2019, healthy, no hollows or spouts
28	Marri ( <i>Corymbia calophylla</i> )	439848	6476354	9	1060	066	320	E	Burnt in May 2019 - Iower half only, healthy, no hollows or spouts, foraging evidence
29	White Gum (Eucalyptus wandoo)	439871	6476369	7	470	350			Healthy, no hollows or spouts
30	White Gum (Eucalyptus wandoo )	439862	6476377	7	440	260	250	Į	Burnt in May 2019 - Iower half only, healthy, no hollows or spouts
31	Marri (Corymbia calophylla)	439869	6476388	12	930				Burnt in May 2019 - Iower half only, healthy, no hollows or spouts, foraging evidence
32	Jarrah ( <i>Eucalyptus marginata</i> )	439759	6476407	7	540	460		_	Healthy, no hollows or spouts





