

City of Kalamunda

Flora, Fauna and Black Cockatoo Habitat Survey – Ray Owen Reserve, Lesmurdie

September 2020

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Executive Summary

Natural Area Consulting Management Services (Natural Area) was contracted by the City of Kalamunda to undertake a level 1 flora and vegetation survey, level 1 fauna survey and black cockatoo habitat assessment in a portion of Ray Owen Reserve, Lesmurdie. Outcomes of the survey will assist with application for a renewal of a clearing permit for the site.

The survey aimed to determine:

- flora and fauna species present (native and non-native)
- the extent and boundaries of vegetation type and condition
- the location of declared rare or priority flora, fauna and/or ecological communities
- the location of habitat trees and whether they have hollows suitable for threatened black cockatoos.

The flora and vegetation survey within site confirmed:

- a total of 124 flora species present from 33 families
- a total of 27 introduced (weeds) and 97 native flora species
- no priority or threatened flora species were found
- one vegetation type occurred within the site, namely Marri-Jarrah Woodland
- vegetation condition across the site ranged from Completely Degraded to Excellent, with majority of the site (83%) in Excellent condition.

The fauna survey within the site confirmed:

- a total of 18 fauna species present
- three mammals, one reptile and 14 bird species within the survey area
- four introduced species (one bird and three mammals)
- fourteen native species
- signs of feeding of the threatened Forest Red-tailed Black Cockatoo within the survey area and calls heard from nearby areas.

The threatened black cockatoo habitat assessment confirmed:

- a total of 33 habitat trees with a DBH >500mm were noted in the survey area, with 27 occurring in the proposed clearing area, of which 21 were Marris and six were Jarrahs
- two trees had hollows of suitable size for potential use by threatened black cockatoos
- no evidence of nesting or roosting of black cockatoos was noted during the assessment
- evidence of foraging of Marri nuts by black cockatoos was noted in three locations
- the area of good foraging habitat exceeded the 1 ha trigger value for the EPBC Act Referral guidelines for three threatened black cockatoo species.

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1.0 Introduction

Natural Area Consulting Management Services (Natural Area) was contracted by the City of Kalamunda to undertake level 1 flora and fauna surveys and a threatened black cockatoo habitat assessment within a portion of Ray Owen Reserve, Lesmurdie. The survey was undertaken to determine fauna, flora, and vegetation communities present, including conservation significant species, vegetation types and vegetation condition and black cockatoo habitat presence and condition. Survey outcomes will assist with the application of a clearing permit renewal for the area.

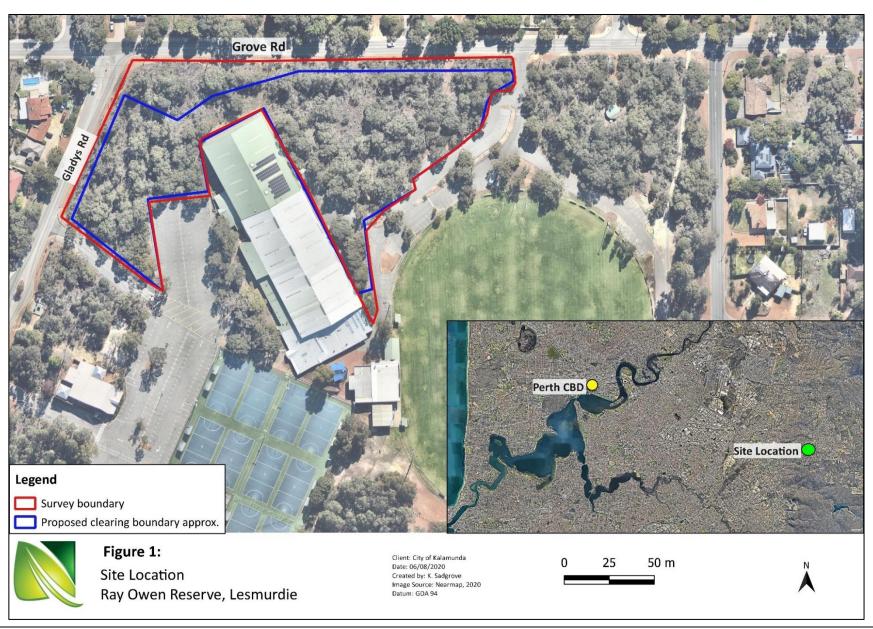
1.1 Location

Ray Owen Reserve survey area is approximately 1.7 ha and located adjacent to the Ray Owen Sports Centre, corner of Grove Road and Gladys Road, Lesmurdie, WA. The northern proportion of the reserve which surrounds the sports centre was the focus of the survey (Figure 1). The survey area includes the proposed clearing footprint (1.3 ha) and the buffer areas along the roads that are to remain vegetated.

1.2 Scope

Natural Area's scope of works associated with the flora and fauna surveys included:

- desktop database searches to identify flora ecological communities that may be present at the site,
 including any conservation significant species and ecological communities
- desktop review of available data for the site including vegetation complex, soils characteristics, and topography
- a site survey to:
 - determine flora and fauna species present (native and non-native)
 - the presence of threatened and priority species or ecological communities
 - the extent of vegetation types and condition
 - determine the presence of habitat trees with a diameter at breast height (DBH) >500 mm
 - determine the presence of foraging habitat and nesting habitat for threatened black cockatoos
- reporting survey outcomes.



2.0 Site Characteristics

2.1 Regional Context

According to Interim Biogeographical Regionalisation of Australia (IBRA) descriptions, Ray Owen Reserve is located in the JAF01 – Northern Jarrah Forest subregion. This subregion occurs east of the Darling Scarp which is overlying granite and metamorphic rocks with an average elevation of 300 m. The Northern Jarrah Forest region is dominated by Jarrah-Marri forest on laterite soils and in the eastern area of the subregion is dominated by Wandoo-Marri woodland on clayey soil (Williams and Mitchell, 2001).

2.2 Climate

The climate experienced in the area is warm Mediterranean, with dry, hot summers and cool, wet winters. According to the Bureau of Meteorology (Perth Airport, Station ID 009021, 2020):

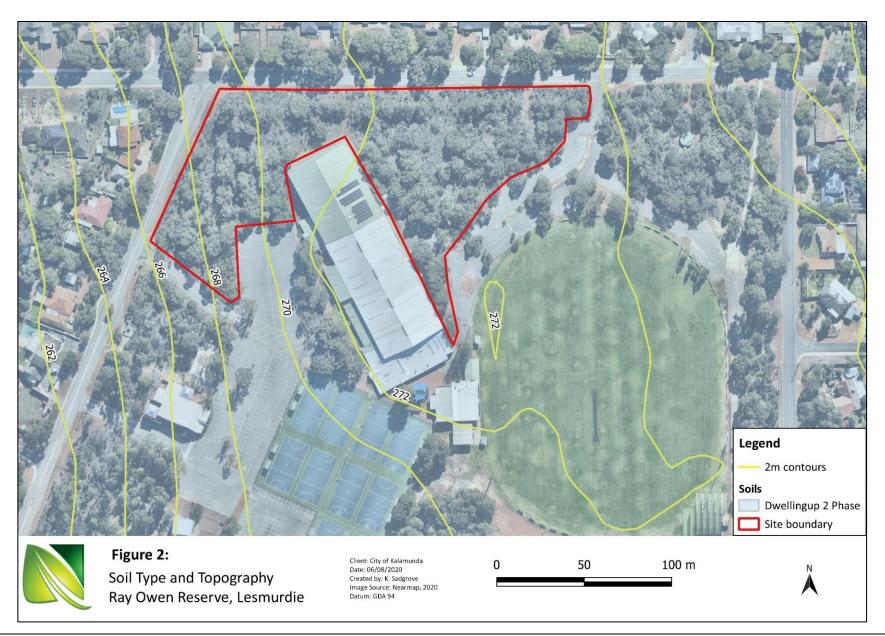
- average rainfall is 762.1 mm pa, with the majority falling between May and August
- average maximum temperature ranges from 18.0 °C in winter to 32 °C in summer, with the highest
- recorded maximum being 46.7 °C
- average minimum temperatures range from 8.0 $^{\circ}$ C in winter to 17.5 $^{\circ}$ C in summer, with the lowest recorded minimum being -1.3 $^{\circ}$ C
- predominant wind directions include morning easterlies and westerly sea breezes during summer months, with an average wind speed of 16.6 km/h and gusts of more than 100 km/h.

2.3 Soils and Topography

According to the Natural Resource Info (NRInfo) data maintained by the Department Primary Industries and Regional Development (DPIRD, 2020) one soil type namely Dwellingup 2 Phase (255DpDW2) exists within the site (Figure 2). This soil type is described as very gently undulating terrain with well drained, shallow to moderately deep gravelly brownish sands, pale brown sands and earthy sands overlying lateritic duricrust. Site topography ranges from 266 – 272 m AHD rising from west to east.

2.4 Fauna Habitat

There is potential for the three threatened black cockatoos and their habitat to occur on site including, the Carnaby's Cockatoo (*Calyptorhynchus latirostris*) listed as endangered under the *EPBC Act 1999* (Cwlth), the Forest Red-tailed Black Cockatoo (*Calyptorhynchus banksia naso*) and the Baudin's Black Cockatoo (*Calyptorhynchus baudinii*) listed as vulnerable; all are listed as threatened under the *Biodiversity Conservation Act 2016* (WA). According to the WALGA Environmental Planning Tool (2020), Ray Owen Reserve survey area is located within in a confirmed breeding and roosting area for the threatened Carnaby's Black Cockatoo (*Calyptorhynchus latirostris*) and within a potential feeding area for the species. The location of the survey is also classified as a potential Priority 4 Quenda (*Isoodon fusciventer*) habitat (WALGA 2020).



3.0 Methodology

3.1 Objectives

The objective of the survey was to collect sufficient data to collect adequate information to enable the renewal of a clearing permit. This included undertaking a desktop review, determining flora species present, assessing vegetation type and condition, assessing the key habitats which could be used by threatened black cockatoos.

3.2 Desktop and Literature Review

A desktop flora and vegetation survey was undertaken to determine:

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

The following databases were accessed to obtain relevant information:

- NatureMap (Department of Biodiversity, Conservation and Attractions, 2020b) (Appendix 1)
- Protected Matters Search Tool (Department of the Environment and Energy (DoEE), 2020b)
 (Appendix 2)
- FloraBase (Department of Biodiversity, Conservation and Attractions, 2018b)
- Threatened and priority flora and ecological community database searches (Department of Biodiversity, Conservation and Attractions, 2018c).

Summary sheets of threatened flora potentially occurring in the area were created for quick reference in the field (Appendix 6).

3.3 Flora On-ground Methodology

Natural Area Botanists Sharon Hynes and Kylie Sadgrove traversed the site on the 29 July 2020, with key GPS data recorded using a handheld Samsung tablet loaded with GIS mapping software (Mappt), including:

- identification of flora species present by walking the site, including targeting declared rare and priority species indicated as potentially present during desktop assessments
- assessing boundaries of vegetation type and condition extent across the site
- determining the presence of any further threatened or priority listed flora species and/or ecological communities listed under the *Biodiversity and Conservation Act 2016* (WA) and/or the *Environment* Protection and Biodiversity Conservation Act 1999 (Commonwealth)
- locations of habitat trees with a DBH >500 mm which have the potential to provide habitat in the form of foraging, roosting or hollows for threatened black cockatoos.

The flora and vegetation survey was conducted in accordance with *Technical Guidance- Flora and Vegetation Surveys for Environmental Impact Assessment* (Environmental Protection Authority, 2016). Samples were collected, or photographs taken of unfamiliar species to enable later identification.

3.3.1 Vegetation Type

The vegetation type was determined using the structural classes described in *Bush Forever Volume 2* (Government of Western Australia, 2000), and records dominant over, middle and understorey species. A tablet equipped with GPS mapping software was used to mark the change in vegetation type across the site. A description of the various structural classes is provided in Table 1.

Table 1: Vegetation structural classes

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

(Source: Government of Western Australia, 2000)

3.3.2 Vegetation Condition

Vegetation condition was assessed using the rating scale outlined in in *Bush Forever Volume 2* (Government of Western Australia, 2000). A tablet equipped with GPS mapping software was used to mark the vegetation condition across the site. Table 2 provides a description of the rating scale.

Table 2: Vegetation condition ratings

Cat	egory	Description				
1 Excellent		Pristine or nearly so, no obvious signs of damage caused by human activities since				
		European settlement.				
2	Very Good	Some relatively slight signs of damage caused by human activities since European				
		settlement. For example, some signs of damage to tree trunks caused by repeated fire,				
		the presence of some relatively non-aggressive weeds, or occasional vehicle tracks.				
3	Good	More obvious signs of damage caused by human activities since European settlement,				
		including some obvious impact on the vegetation structure such as that caused by low				
		levels of grazing or slightly less aggressive weeds.				

Cat	egory	Description					
4	Poor	Still remains basic vegetation structure or ability to regenerate to it after very obvious impacts of human activities since European settlement, such as grazing, partial clearing, frequent fires or aggressive weeds.					
5	Very Poor	Severely impacted by grazing, very frequent fires, clearing or a combination of these activities. Scope for some regeneration but not to a state approaching good condition without intensive management. Usually with a number of weed species present including very aggressive species.					
6	Completely Degraded	Areas that are completely or almost completely without native species in the structure of their vegetation; i.e. areas that are cleared or 'parkland cleared' with their flora comprising of weed or crop species with isolated native trees or shrubs.					

3.3.3 Limitations

A number of limitations associated with both desktop and on-site flora surveys exist, including:

- the survey was conducted just before the optimal time of year for flora species in the Perth region with those species present at the time recorded
- database searches only provide an indication of what flora species may be present, with on ground surveys required to confirm those actually present
- the differing databases are reliant on information submitted via various reporting mechanisms, so all records of a particular species or ecological community within a specified area may not be complete
- on-ground surveys indicate species present at the time of the assessment, with species flowering at different times not always able to be identified
- not all species flower every year.

Despite these limitations, Natural Area believes 80-90% of flora species were identified.

4.0 Results

4.1 Desktop Survey

A review of NatureMap identified a total of 873 flora plant species which could potentially occur within a 5 km radius of the site including:

- 572 dicotyledons
- 22 fungi
- one gymnosperm
- 270 monocotyledons
- eight ferns.

4.1.1 Significant Flora

A review of NatureMap indicated 50 conservation significant flora species listed under the *Biodiversity Conservation Act 2016* (WA), potentially occurring within 5 km of the site (Department of Biodiversity Conservation and Attractions, 2020b). A review of the Protected Matters Search Tool (PMST) (Department of the Environment and Energy, 2019) indicated 21 significant flora species listed under the *Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act*) (Cwlth) as potentially occurring within a 5 km radius of the site.

A review of the DBCA's threatened and priority flora database indicated 58 priority species and 19 threatened species have previously been recorded within a 10 km buffer of the survey site. Of the 94 conservation significant species potentially found in the area, it was determined that the site conditions (soil type, drainage, location) may be suitable for 26 (highlighted in green) of these species (Table 3). Conservation code descriptions are provided in Appendix 3.

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

Species Name	Cons. Code	Nature Map	PMST	DBCA
Acacia anomala	T, VU	Х	Х	Х
Acacia aphylla	Т	Х		Х
Acacia drummondii subsp. affinis	Р3			Х
Acacia horridula	Р3			Х
Acacia lasiocarpa var. bracteolata long peducle variant	P1			Х
Acacia oncinophylla subsp. oncinophylla	Р3			Х
Acacia oncinophylla subsp. patulifolia	P4	Х		Х
Allocasuarina grevilleoides	Р3			Х
Andersonia gracilis	T, EN	Х	Х	Х
Andersonia sp. Blepharifolia	P2			Х
Anthocercis gracilis	Т	Х		Х
Aponogeton hexatepalus	P4			Х
Asteridea gracilis	Р3	Х		Х
Austrostipa bronwenae	T, EN	Х	Х	Х
Babingtonia urbana	P3			Х
Banksia kippistiana var. paenepeccata	Р3			Х

Species Name	Cons. Code	Nature Map	PMST	DBCA
Banksia mimica	Т	Х		Х
Banksia pteridifolia subsp. vernalis	P3	Х		
Beaufortia purpurea	P3	Х		
Bolboschoenus fluviatilis	P1			Х
Boronia humifusa	P1	Х		Х
Boronia tenuis	P4	Х		Х
Bossiaea modesta	P2			Х
Byblis gigantea	P3	Х		Х
Caladenia huegelii	Т			Х
Calandrinia uncinella	P1			Х
Calectasia grandiflora	P2			Х
Calothamnus accedens	P4			Х
Calothamnus graniticus subsp. leptophyllus	P4			Х
Calytrix breviseta subsp. breviseta	EN		Х	Х
Carex tereticaulis	P3			Х
Chamelaucium lullfitzii	EN		Х	
Comesperma rhadinocarpum	P3			Х
Conospermum undulatum	T, VU	Х	Х	Х
Cyanicula ixioides subsp. ixioides	P4	Х		Х
Darwinia apiculata	T, EN	Х	Х	Х
Diplolaena andrewsii	Т	Х		
Diuris brevis	P2			Х
Diuris drummondii	T, VU	Х	Х	Х
Diuris micrantha	VU		Х	
Diuris purdiei	Т	Х		Х
Drakaea elastica	EN, T	Х	Х	
Drakaea micrantha	T, VU	Х	Х	
Drosera occidentalis	P4			Х
Eleocharia keigheryi	T, VU	Х	Х	Х
Eremophila glabra subsp. chlorella	T, EN	Х	Х	Х
Eryngium sp. Subdecumbens	P3			Х
Eucalyptus balanites	T, EN	Х	Х	
Goodenia arthrotricha	T, EN	Х	Х	Х
Grevillea curviloba	T, EN	Х	Х	
Grevillea manglesii subsp. dissectifolia	P3			Х
Grevillea pimeleoides	P4			Х
Grevillea thelemanniana	T, CR	Х	Х	Х
Haemodorum loratum	P3			Х
Halgania corymbosa	Р3	X		Х
Hibbertia montana	P4	Х		
Hydrocotyle lemnoides	P4			Х
Hydrocotyle striata	P1	Х		Х

Species Name	Cons. Code	Nature Map	PMST	DBCA
Isopogon autumnalis	P3	Х		Х
Jacksonia gracillima	P3	Х		Х
Lasiopetalum bracteatum	P4	Х		Х
Lasiopetalum glutinosum subsp. glutinosum	P3	Х		Х
Lasiopetalum pterocarpum	T, EN	Х	Х	
Lepidosperma rostratum	T, EN	Х	Х	Х
Macarthuria keigheryi	T, EN	Х	Х	Х
Meionectes tenuifolia	P3			Х
Melaleuca viminalis	P2			Х
Microtis quadrata	P4			Х
Myriophyllum echinatum	Р3			Х
Ornduffia submersa	P4			Х
Synaphea sp. Fairbridge Farm	T, EN	Х	Х	
Paracaleana ferricola	P2			Х
Pimelia rara	P4	Х		Х
Pithocarpa corymbulosa	Р3	Х		Х
Platysace ramosissima	P3			Х
Ptilotus pyramidatus	T, CR			Х
Schoenus benthamii	P3			Х
Schoenus capillifolius	Р3			Х
Schoenus griffinianus	P4			Х
Schoenus Ioliaceus	P2			Х
Schoenus natans	P4			Х
Schoenus pennisetis	Р3			Х
Senecio leucoglossus	P4	Х		Х
Stackhousia sp. Red-blotched corolla	Р3	Х		
Stylidium aceratum	Р3			Х
Stylidium longitubum	P4			Х
Stylidium striatum	P4	Х		Х
Styphelia filifolia	Р3	Х		
Synaphea sp. Fairbridge Farm	T, CR			Х
Thelymitra dedmanianum	Т	Х		
Thelymitra magnifica	P1	Х		Х
Thelymitra stellata	Т	Х		Х
Thysanotus anceps	Р3	Х		Х
Verticordia lindleyi subsp. lindleyi	P4	Х		Х

(Source: Department of Biodiversity, Conservation and Attractions, 2020a)

4.1.2 Threatened Ecological Communities

A review of the PMST report indicated that there are three listed Threatened Ecological Communities that could potentially occur within 5 km of the site (Table 4). A review of the DBCA's Threatened Ecological Communities database indicates that three threatened and one Priority floristic community type occur within a 5 km buffer of the area (Table 4).

Table 4: Potential Threatened Ecological Communities within the Ray Owen Reserve

Name	Status	Presence
Banksia woodlands of the Swan Coastal Plain	Endangered	Unlikely site not within the SCP,
		soil type unsuitable
Banksia attenuata woodlands over species rich	Endangered	Unlikely site not within the SCP,
dense shrublands		soil type unsuitable
Central North Darling Scarp Granite Shrubland	Priority 4	Unlikely soil type unsuitable
Community		
Clay Pans of the Swan Coastal Plain	Critically	Unlikely site is not within SCP, soil
	Endangered	type unsuitable
Corymbia calophylla - Xanthorrhoea preissii	Critically	Unlikely site not within the SCP,
woodlands and shrublands, Swan Coastal Plain	Endangered	soil type unsuitable
Tuart (Eucalyptus gomphocephala) Woodlands	Critically	Unlikely site not within the SCP,
and Forests of the Swan Coastal Plain	Endangered	Soil type unsuitable

4.2 Flora Survey Results

4.2.1 Flora

A total of 124 flora species (taxa) were recorded from 33 families during the field survey, including 27 weeds and 97 native species. Examples of native flora species recorded are shown in Figure 3 and weed species in Figure 4. A complete flora species list is provided in Appendix 4.

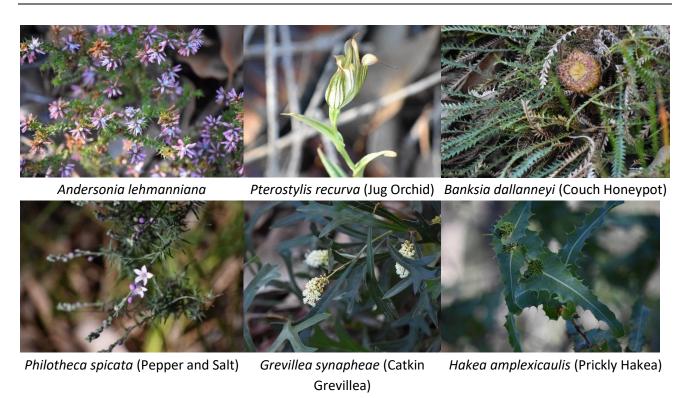


Figure 3: Examples of native flora species recorded



Figure 4: Examples of weed flora species recorded

4.2.2 Vegetation Type

One vegetation type was recorded across the survey site, Marri – Jarrah Woodland (Figure 5). This vegetation community is comprised of a woodland of *Corymbia calophylla* (Marri) and *Eucalyptus marginata* (Jarrah), with a middle storey of *Banksia sessilis* var. *sessilis*, *Xanthorrhoea preissii* and *Xanthorrhoea brunonis* over an understory of mixed native herbs and sedges.



Figure 5: Marri- Jarrah Woodland at Ray Owen Reserve, Lesmurdie.

4.2.3 Threatened and Priority Ecological Communities

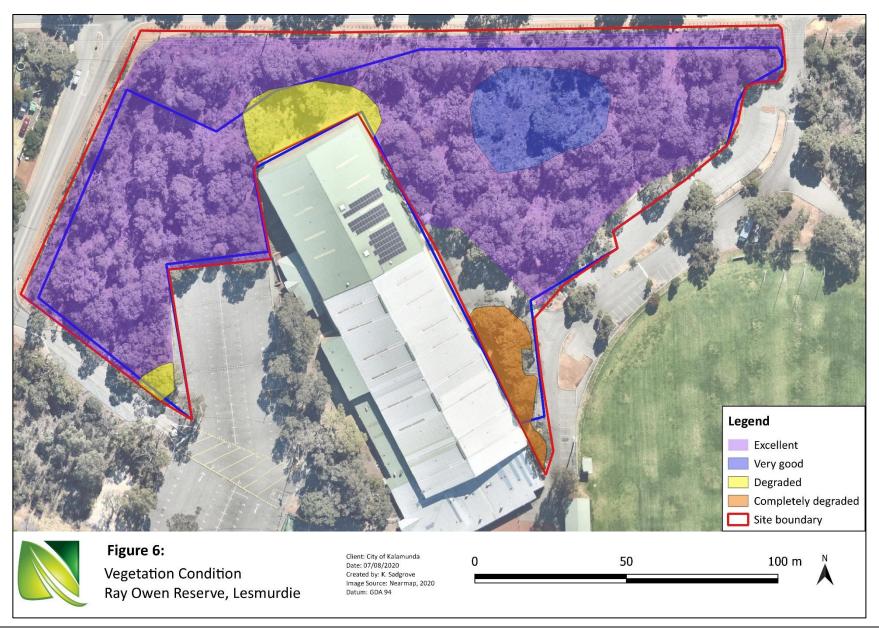
The Priority 4 Central North Darling Scarp Granite Shrubland Community is the closest conservation significant community occurring within 500 m of the site (DBCA, 2020c), however, this was not recorded within the site as there are no granite outcrops present and vegetation type present was a woodland not a shrubland. All the other threatened communities listed in Table 4 occur within the Swan Coastal Plain and therefore are not within the site as it is located in the Northern Jarrah Forest Region at higher elevations of the Darling Scarp. The dominant species for these community types did not match the vegetation type found on site which consisted of Jarrah and Marri Woodland.

4.2.4 Vegetation Condition

Vegetation condition ranged from Completely Degraded to Excellent, with majority of the site (83%) classified as Excellent condition (Figure 5 and Table 5). The area which were classified as Completely Degraded adjacent to the carpark, is comprised of trees species only with no understorey vegetation.

Table 5: Vegetation condition

Vegetation Condition	Excellent	Very Good	Good	Degraded	Completely Degraded	Totals
Area (ha)	1.23	0.124	-	0.081	0.05	1.485
Area (%)	83%	8.3%	-	5.4%	3.3%	100



4.3 Fauna Survey Results

Opportunistic sightings of fauna were recorded, either directly or indications of their presence during the Level 1 fauna survey. A total of 18 species were recorded, including three mammals, one reptile and 14 birds (Table 6). Although not observed directly within the survey site, Red-tailed Black Cockatoo (*Calyptorhynchus banksii*) were heard calling in a nearby location when conducting the survey. Evidence of feeding was observed in the form of chewed Marri (*Corymbia calophylla*) nuts by both black cockatoo's and parrots (Figure 8 and 9). Examples of fauna recorded during the survey are shown in Figure 7.

Table 6: Fauna species observed

Family	Scientific Name	Common Name	Lifeform
Acanthizidae	Acanthiza apicalis	Inland Thornbill	Bird
Meliphagidae	Anthochaera carunculata	Red Wattlebird	Bird
Meliphagidae	Anthochaera lunulata	Western Wattlebird	Bird
Cacatuidae	Cacatua roseicapilla	Galah	Bird
Cacatuidae	Calyptorhynchus banksii naso	Forest Red-tailed Black Cockatoo	Bird
		(heard calling in a nearby location)	
Corvidae	Corvus coronoides	Australian Raven	Bird
Cracticidae	Cracticus tibicen	Australian Magpie	Bird
Cracticidae	Cracticus torquatus	Grey Butcherbird	Bird
Scincidae	Cryptoblepharus	Snake-eyed Skink	Reptile
Alcedinidae	Dacelo novaeguineae*	Laughing Kookaburra	Bird
Felidae	Felis catus*	Domestic Cat	Mammal
Muridae	Mus musculus*	House Mouse	Mammal
Leporidae	Oryctolagus cuniculus*	Rabbit (diggings)	Mammal
Hirundinidae	Petrochelidon nigricans	Tree Martin	Bird
Columbidae	Phaps chalcoptera	Common Bronzewing	Bird
Meliphagidae	Phylidonyris novaehollandiae	New Holland Honeyeater	Bird
Psittacidae	Platycercus spurius	Red-capped Parrot	Bird
Psittacidae	Platycercus zonarius	Australian Ringneck	Bird



Figure 7: Observed fauna within Ray Owen Reserve

Red-capped Parrot

(Platycercus spurius)

Western Wattlebird

(Anthochaera lunulata)

4.3.1 Fauna Habitat

Signs of feeding of the Forest Red-tailed Black Cockatoos (*Calyptorhynchus banksii naso*) was noted on site, with birds also heard calling from nearby bushland. A total of 33 habitat trees with a DBH >500 mm were recorded within the survey area, with 27 occurring within the proposed clearing areas including 21 Marri and six Jarrah trees (Figure 9).

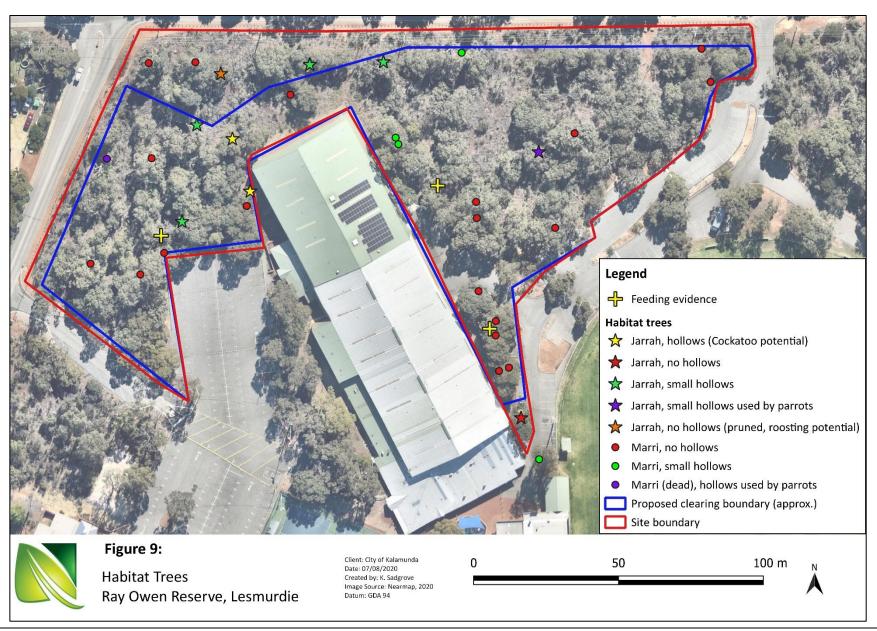
A total of nine hollows were recorded within habitat trees, two of which are of a suitable size to be potentially utilised by black cockatoos. No current use of nesting hollows by black cockatoos was noted. Two trees with smaller hollows were being utilised by Australian Ringnecks, with one hollow observed with birds feeding young and another already with a fledgling exiting the hollow. Forest Red-tailed Black Cockatoo feeding evidence on Marris was noted in three locations within the site, with the majority of other feeding observed being by the Australian Ringneck parrots (Figures 8 and 9).



Feeding by parrot species

Feeding by Forest Red-tailed Black Cockatoos

Figure 8: Evidence of feeding on Marri (Corymbia calophylla) nuts



5.0 Implications of Results

5.1 Flora and Vegetation

Natural Area's August 2020 survey of a portion of the Ray Owen reserve in Lesmurdie recorded 124 flora species from 33 families, 27 of which were introduced and 97 were native. One vegetation type was identified, Marri - Jarrah Woodland with vegetation condition ranging from Completely Degraded to Excellent.

5.2 Significant Flora

No threatened or priority flora species were identified during the August 2020 flora and vegetation survey. The DBCA database search did not identify any threatened or priority species within 1 km of the survey area (DBCA, 2020c). Due to the timing of the flora and vegetation survey taking place outside the optimal time of year (spring) the potential presence of some conservation significant flora cannot be ruled out as they were either dormant or not flowering (e.g. threatened orchid species).

5.3 Threatened Ecological Communities (TEC)

The PMST report (Department of Agriculture, Water and the Environment, 2020a) indicated the potential presence of three threatened ecological communities to occur within or in close proximity to the site (refer to Table 4). The DBCA threatened and priority ecological community database search indicated one priority and three threatened communities to occur within the site (2020c). However, the DBCA database search indicated no presence of threatened or priority communities within the site, with the soil type being unsuitable for the listed potential communities and most communities occurring within the Swan Coastal Plain at the bottom of the Darling Scarp. The closest known community was the Priority 4 Central North Darling Scarp Granite Shrubland Community which was 500m to the west of the site (DBCA, 2020c).

Upon visitation to the site in August 2020, Natural Area botanists confirmed no presence of the TECs and PEC in Table 4 with the laterite soil on site being unsuitable for these communities and the Marri -Jarrah Woodlands not matching the dominant overstorey or other common indicative species of the listed communities. It should be noted the survey was conducted in August 2020, just outside the optimal time of year (spring). However, this did not affect the assessment of the dominant species of the vegetation on site as they were easily identified on site during the survey and did not match the listed communities composition.

5.4 Black Cockatoo Habitat

Marri is a common food source for the Carnaby's Cockatoo, Baudin's and Forest Red-tailed Black Cockatoos species. Foraging by Forest Red-tailed Black Cockatoos on Marri nuts was noted on site and a total of 27 habitat trees were recorded in the proposed clearing area, with two of these having hollows suitable for use by black cockatoos. No signs of roosting or nesting by black cockatoos was found the site, although it does contain 1.3 ha of good quality foraging habitat which meets the trigger value for referral in the EPBC Act referral guidelines for three threatened black cockatoo species.

Due to the fact that the site occurs in an area that is still highly vegetated, with the Mundy Regional Park and Korung National Park in close proximity, the clearing of this area is not likely to have a significant impact on black cockatoo habitat for the region. Although the clearing is not likely to have a significant impact, it is recommended that the proposal is discussed with the Department of Agriculture, Water and Environment to determine whether a referral under the EPBC Act 1999 is warranted.

Referral guidelines in relation to the site are further discussed in Table 7.

Table 7: Referral guidelines for the three threatened black cockatoo species

Guideline		Comment
High risk of significant impacts: referral recommended	 Clearing of any known nesting tree Clearing or degradation of any part of a vegetation community known to contain breeding habitat Clearing of more than 1 ha of quality foraging habitat. Clearing or degradation (including pruning the top canopy) of a known night roosting site Creating a gap of greater than 4 km between patches of black cockatoo habitat (breeding, foraging or roosting). 	 No known nesting trees were recorded on site, although there were two trees with hollows large enough to be potentially utilised by black cockatoos Yes the clearing area occurs within a known breeding and roosting area according to WALGA Environmental Planning Tool The area contains more than 1 ha of quality foraging habitat, although it is a small area within a highly vegetated region with Mundy Regional Park and Korung National Park nearby and is unlikely to cause significant impact to the feeding habitat in this region Evidence of feeding was observed in three locations within the site boundary Clearing of this area would not cause a gap of more than 4 km between patches of black cockatoo habitat as the remainder of the vegetation at Ray Owen Reserve will be retained and similar vegetation is present in nearby reserves, Regional and National Parks.
Uncertainty: referral recommended or contact the department	 Degradation (such as through altered hydrology or fire regimes) of more than 1 ha of foraging habitat. Significance will depend on the level and extent of degradation and the quality of the habitat. Clearing or disturbance in areas surrounding black cockatoo breeding, foraging or night roosting habitat that has the potential to degrade habitat through introduction of invasive species, edge effects, hydrological changes, increased human visitation or fire. 	The area will be directly affected through clearing of black cockatoo habitat with indirect effects to the remnant vegetation within Ray Owen via fragmentation of vegetation and increased edge effects with only thin strips to be left surrounding the car parks.

Guideline	Comment		
 Actions that do not directly affect the listed species but that have the potential for indirect impacts such as increasing competitors for nest hollows. Actions with the potential to introduce known plant diseases such as Phytophthora spp. to an area where the pathogen was not previously known. Low risk of significant individuals. Actions that do not affect black cockatoo habitat or individuals. Actions whose impacts occur outside the modelled distribution of the three black cockatoos. 	 Actions of clearing in this area will not significantly affect black cockatoo habitat or individual birds as none were noted on site during the August 2020 survey. Except for some transient foraging they do not appear to utilise this site for nesting or roosting, as there are larger and better quality habitat areas nearby in Mundy Regional Park that are not surrounded by residential housing. 		

5.5 Assessment Against Clearing Principles

An assessment of information obtained during the July 2020 survey has been made against the Western Australian clearing principles. It is suggested that the clearing application may be at variance to one of the ten clearing principles (Table 8).

 Table 8: Assessment against clearing principles

Clea	ring Principle	Comment		
Α	Native vegetation should not be cleared if it comprises a high level of biological diversity.	The area to be cleared may be at variance with this principle: A total of 124 flora species were identified, including 97 native and 27 introduced species the majority (83%) of the vegetation is in Excellent condition during the August 2020 survey by Natural Area botanists, no conservation significant flora was identified within the proposed clearing area		
В	Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.	 The area to be cleared is not likely to be at variance with this principle: the area contains habitat suitable for black cockatoo foraging, roosting and nesting, however there is a lot of nearby areas that provide higher quality habitat and are much larger than Ray Owen Reserve such as Mundy Regional Park to the west and Korung National Park to the south-east 		
С	Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.	 The area to be cleared is not likely to be at variance with this principle: During the November 2019 survey by Natural Area botanists, no conservation significant flora was identified within the proposed clearing area 		
D	Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.	The area to be cleared is not likely to be at variance with this principle: No threatened or priority ecological communities occur within the site.		
E	Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.	 The area to be cleared is not likely to be at variance with this principle: Ray Owen Reserve is not a large bushland reserve and there are much larger and higher quality vegetation nearby in Mundy Regional Park to the west and Korung National Park to the southeast The site is situated within the Dwellingup vegetation association 3 (Beard Association) with approximately 7097.39 ha (75.61%) of the pre-European extent remaining for this vegetation complex. 		

F	Native vegetation should not be	The area to be cleared is not likely to be at variance with this principle as the site has no association with a			
	cleared if it is growing in, or in	watercourse or wetland.			
	association with, an environment				
	associated with a watercourse or				
	wetland.				
G	Native Vegetation should not be	The area to be cleared is not likely to be at variance with this principle as it is not expected to cause further			
	cleared if the clearing of the	land degradation and the area to be cleared is proposed to be developed around an existing structure.			
	vegetation is likely to cause				
	appreciable land degradation.				
Н	Native vegetation should not be	The area to be cleared is not likely to be at variance with this principle as the area is proposed to be			
	cleared if the clearing of the	oped around an existing recreation structure and is surrounded by residential housing.			
	vegetation is likely to have an				
	impact on the environmental				
	values of any adjacent or nearby				
	conservation area.				
I	Native vegetation should not be	The area to be cleared is not likely to be at variance with this principle as no surface water courses were			
	cleared if the clearing of the	identified during the August 2020 survey by Natural Area botanists.			
	vegetation is likely to cause				
	deterioration in the quality of				
	surface or underground water.				
J	Native vegetation should not be	The area to be cleared is not likely to be at variance with this principle:			
	cleared if clearing the vegetation is	The area proposed to be cleared is located around an existing structure and is not expected to			
	likely to cause, or exacerbate, the	change or exacerbate the incidence of flooding			
	incidence of flooding.				

6.0 References

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Appendix 1: NatureMap Report (5 km buffer)



Amphibian

NatureMap Species Report

Created By Guest user on 10/07/2020

Current Names Only Yes

Core Datasets Only Yes

Method 'By Circle'

Centre 116° 02' 37" E,32° 00' 03" S

Buffer 5km

Group By Species Group

Species Group	Species	Records
Amphibian	9	80
Bird	144	7535
Bryopsid (Moss)	33	52
Dicotyledon	572	2116
Fish	2	3
Fungus	22	45
Gymnosperm	1	4
Hepatic (Liverwort)	2	2
Invertebrate	49	164
Lichen	5	6
Mammal	18	338
Monocotyledon	270	764
Pteridophyte (Fern)	8	14
Reptile	41	251
Slime Mould	2	3
TOTAL	1178	11377

Name ID Species Name

Naturalised Conservation Code ¹Endemic To Query Area

Ampinbian	
1.	25398 Crinia georgiana (Quacking Frog)
2.	25399 Crinia glauerti (Clicking Frog)
3.	25400 Crinia insignifera (Squelching Froglet)
4.	25401 Crinia pseudinsignifera (Bleating Froglet)
5.	25409 Heleioporus barycragus (Hooting Frog)
6.	25410 Heleioporus eyrei (Moaning Frog)
7.	25415 Limnodynastes dorsalis (Western Banjo Frog)
8.	25378 Litoria adelaidensis (Slender Tree Frog)
9.	25433 Pseudophryne guentheri (Crawling Toadlet)
Bird	
10.	24559 Acanthagenys rufogularis (Spiny-cheeked Honeyeater)
11.	24260 Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill)
12.	24261 Acanthiza chrysorrhoa (Yellow-rumped Thornbill)
13.	24262 Acanthiza inornata (Western Thornbill)
14.	24265 Acanthiza uropygialis (Chestnut-rumped Thornbill)
15.	24560 Acanthorhynchus superciliosus (Western Spinebill)
16.	25535 Accipiter cirrocephalus (Collared Sparrowhawk)
17.	25536 Accipiter fasciatus (Brown Goshawk)
18.	24282 Accipiter fasciatus subsp. fasciatus (Brown Goshawk)
19.	25755 Acrocephalus australis (Australian Reed Warbler)
20.	25544 Aegotheles cristatus (Australian Owlet-nightjar)
21.	24312 Anas gracilis (Grey Teal)
22.	24313 Anas platyrhynchos (Mallard)
23.	24315 Anas rhynchotis (Australasian Shoveler)
24.	24316 Anas superciliosa (Pacific Black Duck)
25.	47414 Anhinga novaehollandiae (Australasian Darter)
26.	24561 Anthochaera carunculata (Red Wattlebird)
27.	24562 Anthochaera lunulata (Western Little Wattlebird)
28.	24285 Aquila audax (Wedge-tailed Eagle)
29.	24340 Ardea novaehollandiae (White-faced Heron)
30.	24341 Ardea pacifica (White-necked Heron)
31.	25566 Artamus cinereus (Black-faced Woodswallow)
32.	24353 Artamus cyanopterus (Dusky Woodswallow)
33.	24356 Artamus personatus (Masked Woodswallow)

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.







	Name ID	Species Name	Naturalise	ed Conservation Code	e ¹ Endemic To C Area
34.	05740	Barnardius zonarius			
35.		Cacatua galerita (Sulphur-crested Cockatoo)			
36.		Cacatua pastinator (Western Long-billed Corella)			
37.		Cacatua sanguinea (Little Corella)			
38.		Cacomantis flabelliformis (Fan-tailed Cuckoo)			
39.		Cacomantis pallidus (Pallid Cuckoo)			
40.		Calyptorhynchus banksii (Red-tailed Black-Cockatoo)		_	
41.		Calyptorhynchus banksii subsp. naso (Forest Red-tailed Black Cockatoo)		Т	
42.	24/33	Calyptorhynchus baudinii (Baudin's Cockatoo, White-tailed Long-billed Black Cockatoo)		Т	
12	24724	,			
43.	24734	Calyptorhynchus latirostris (Carnaby's Cockatoo, White-tailed Short-billed Black		Т	
44	48400	Cockatoo) Calintarhynchus sp. (white tailed black cockatos)		т	
44.		Calyptorhynchus sp. (white-tailed black cockatoo)		T	
45.		Chenonetta jubata (Australian Wood Duck, Wood Duck)			
46.		Chrysococcyx lucidus subsp. plagosus (Shining Bronze Cuckoo)			
47. 48.		Colluricincle harmonica (Grey Shrike-thrush)			
		Colluricincla harmonica subsp. rufiventris (Grey Shrike-thrush)	V		
49.		Columba livia (Domestic Pigeon)	Y		
50.		Coracina novaehollandiae (Black-faced Cuckoo-shrike)			
51.		Corvus bennetti (Little Crow)			
52.		Corvus coronoides (Australian Raven)			
53.		Cracticus nigrogularis (Pied Butcherbird)			
54.		Cracticus tibicen (Australian Magpie)			
55.	24422	Cracticus tibicen subsp. dorsalis (White-backed Magpie)			
56.	25596	Cracticus torquatus (Grey Butcherbird)			
57.	24322	Cygnus atratus (Black Swan)			
58.	30901	Dacelo novaeguineae (Laughing Kookaburra)	Υ		
59.	25673	Daphoenositta chrysoptera (Varied Sittella)			
60.	24606	Daphoenositta chrysoptera subsp. pileata (Varied Sittella, Black-capped Sitella)			
61.	25607	Dicaeum hirundinaceum (Mistletoebird)			
62.	24470	Dromaius novaehollandiae (Emu)			
63.		Egretta garzetta			
64.		Egretta novaehollandiae			
65.		Elanus axillaris			
66.	47937	Elseyornis melanops (Black-fronted Dotterel)			
67.		Eolophus roseicapillus			
68.	24651	Eopsaltria australis subsp. griseogularis (Western Yellow Robin)			
69.		Eopsaltria georgiana (White-breasted Robin)			
70.	25621	Falco berigora (Brown Falcon)			
71.		Falco cenchroides (Australian Kestrel, Nankeen Kestrel)			
72.		Falco longipennis (Australian Hobby)			
73.		Falco peregrinus (Peregrine Falcon)		S	
74.		Fulica atra (Eurasian Coot)			
75.		Fulica atra subsp. australis (Eurasian Coot)			
76.		Gallinula tenebrosa subsp. tenebrosa (Dusky Moorhen)			
77.		Gerygone fusca (Western Gerygone)			
78.		Glyciphila melanops (Tawny-crowned Honeyeater)			
79.		Grallina cyanoleuca (Magpie-lark)			
80.		Haliastur sphenurus (Whistling Kite)			
81.		Hamirostra isura (Square-tailed Kite)			
82.		Hieraaetus morphnoides (Little Eagle)			
83.		Himantopus himantopus (Black-winged Stilt)			
84.		Hirundo neoxena (Welcome Swallow)			
85.		Lichenostomus leucotis (White-eared Honeyeater)			
86.	25661	Lichmera indistincta (Brown Honeyeater)			
87.		Lophoictinia isura			
88.		Malurus elegans (Red-winged Fairy-wren)			
89.		Malurus lamberti (Variegated Fairy-wren)			
90.		Malurus splendens (Splendid Fairy-wren)			
91.		Melithreptus brevirostris (Brown-headed Honeyeater)			
92.	24598	Merops ornatus (Rainbow Bee-eater)			
93.		Microcarbo melanoleucos			
94.	25693	Microeca fascinans (Jacky Winter)			
95.	25610	Myiagra inquieta (Restless Flycatcher)			
96.	25686	Neochmia temporalis (Red-browed Finch)	Υ		
	24738	Neophema elegans (Elegant Parrot)			
97.		Niney connivers (Parking Out)			
	25747	Ninox connivens (Barking Owl)			
97.		Nycticorax caledonicus (Rufous Night Heron)			
97. 98.	25564				





	Name ID	Species Name	Naturalised	Conservation Code	Area
102.		Pachycephala rufiventris (Rufous Whistler)			
103.		Pachycephala rufiventris subsp. rufiventris (Rufous Whistler)			
104.		Pardalotus punctatus (Spotted Pardalote)			
105.		Pardalotus punctatus subsp. punctatus (Spotted Pardalote)			
106.		Pardalotus striatus (Striated Pardalote)			
107.		Pardalotus striatus subsp. westraliensis (Striated Pardalote)			
108. 109.		Petrochelidon ariel (Fairy Martin)			
110.		Petrochelidon nigricans (Tree Martin) Petroica boodang (Scarlet Robin)			
111.		Petroica goodenovii (Red-capped Robin)			
112.		Phalacrocorax carbo (Great Cormorant)			
113.		Phalacrocorax melanoleucos (Little Pied Cormorant)			
114.		Phalacrocorax sulcirostris (Little Black Cormorant)			
115.		Phalacrocorax varius (Pied Cormorant)			
116.		Phaps chalcoptera (Common Bronzewing)			
117.		Phaps elegans (Brush Bronzewing)			
118.		Phylidonyris niger (White-cheeked Honeyeater)			
119.		Phylidonyris novaehollandiae (New Holland Honeyeater)			
120.	24841	Platalea flavipes (Yellow-billed Spoonbill)			
121.	25720	Platycercus icterotis (Western Rosella)			
122.		Platycercus spurius (Red-capped Parrot)			
123.		Platycercus zonarius (Australian Ringneck, Ring-necked Parrot)			
124.	25703	Podargus strigoides (Tawny Frogmouth)			
125.	25704	Podiceps cristatus (Great Crested Grebe)			
126.	24681	Poliocephalus poliocephalus (Hoary-headed Grebe)			
127.	24683	Pomatostomus superciliosus (White-browed Babbler)			
128.	25731	Porphyrio porphyrio (Purple Swamphen)			
129.	24767	Porphyrio porphyrio subsp. bellus (Purple Swamphen)			
130.	24771	Porzana tabuensis (Spotless Crake)			
131.		Purpureicephalus spurius			
132.		Rhipidura albiscapa (Grey Fantail)			
133.		Rhipidura leucophrys (Willie Wagtail)			
134.		Sericornis frontalis (White-browed Scrubwren)			
135.		Smicrornis brevirostris (Weebill)			
136.		Stagonopleura oculata (Red-eared Firetail)			
137.		Stipiturus malachurus (Southern Emu-wren)			
138.		Strepera versicolor (Grey Currawong)	.,		
139.		Streptopelia chinensis (Spotted Turtle-Dove)	Y		
140.		Streptopelia senegalensis (Laughing Turtle-Dove) Trabulantus payaballandias (Australasian Craba Plack throated Craba)	Y		
141. 142.		Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-			
	2.002	throated Grebe)			
143.	24331	Tadorna tadornoides (Australian Shelduck, Mountain Duck)			
144.		Threskiornis spinicollis (Straw-necked Ibis)			
145.		Todiramphus sanctus (Sacred Kingfisher)			
146.		Todiramphus sanctus subsp. sanctus (Sacred Kingfisher)			
147.		Tribonyx ventralis (Black-tailed Native-hen)			
148.		Trichoglossus haematodus (Rainbow Lorikeet)			
149.		Turnix varius (Painted Button-quail)			
150.		Turnix velox (Little Button-quail)			
151.		Tyto alba subsp. delicatula (Barn Owl)			
152.	25764	Tyto novaehollandiae (Masked Owl)			
153.	25765	Zosterops lateralis (Grey-breasted White-eye, Silvereye)			
voneid /	Mose)				
yopsid (N 154.		Archidium rehmannii			
154.		Barbula calycina			
156.		Bartramia breutelii			
157.		Bartramia pseudostricta			
158.		Campylopus bicolor var. bicolor			
159.		Campylopus introflexus	Υ		
160.		Didymodon australasiae	·		
161.		Ditrichum difficile			
162.		Eccremidium pulchellum			
163.		Entosthodon apophysatus			
164.		Entosthodon productus			
165.		Fissidens megalotis			
		Fissidens taylorii			
166.		Fissidens taylorii var. taylorii			
166. 167.	32469				
167.					
	32370	Funaria hygrometrica Gemmabryum cheelii	7.2		WESTER



	Name ID	Species Name	Natural	ised Conservation Code	¹ Endemic To Query Area
170. 171.		Gemmabryum chrysoneuron Gemmabryum inaequale			
171.		Gemmabryum pachythecum			
173.		Gemmabryum preissianum			
174.		Gemmabryum sullivanii			
175.		Gigaspermum repens			
176.		Philonotis australiensis			
177.		Pleuridium nervosum var. nervosum			
178.		Rosulabryum billarderii			
179.		Rosulabryum campylothecium			
180.	32432	Schizymenium bryoides			
181.	32433	Sematophyllum homomallum			
182.	32437	Syntrichia antarctica			
183.	32438	Syntrichia pagorum			
184.	32441	Tetrapterum cylindricum			
185.		Tortula recurvata			
186.	32456	Weissia rutilans			
Dicotyledon					
187.		Acacia alata var. alata			
188.		Acacia anomala (Grass Wattle)		Т	
189.		Acacia aphylla (Leafless Rock Wattle)		, T	
190.		Acacia applanata			
191.		Acacia barbinervis			
192.		Acacia barbinervis subsp. barbinervis			
193.		Acacia dealbata	Υ		
194.		Acacia dentifera			
195.		Acacia drummondii subsp. elegans			
196.	3331	Acacia extensa (Wiry Wattle)			
197.	3382	Acacia incrassata			
198.	11611	Acacia lasiocarpa var. lasiocarpa			
199.	3454	Acacia nervosa (Rib Wattle)			
200.	3464	Acacia obovata			
201.	3469	Acacia oncinophylla			Υ
202.	14131	Acacia oncinophylla subsp. patulifolia		P4	
203.		Acacia parramattensis			
204.	3502	Acacia pulchella (Prickly Moses)			
205.	15481	Acacia pulchella var. glaberrima			
206.		Acacia pulchella var. pulchella			
207.	3504	Acacia pycnantha (Golden Wattle)	Y		
208.	3527	Acacia saligna (Orange Wattle, Kudjong)			
209.		Acacia saligna subsp. lindleyi			
210.	30034	Acacia saligna subsp. pruinescens			
211.		Acacia sessilis			
212.		Acacia teretifolia			
213.		Acacia willdenowiana (Grass Wattle)			
214.		Actinotus leucocephalus (Flannel Flower)			
215.		Adenanthos parbiger			
216.		Adenanthos cygnorum subsp. cygnorum (Common Woollybush)			
217.		Agenis flow ace (Pennermint Wenil)	Y		
218. 219.		Agonis flexuosa (Peppermint, Wonil)			
219.		Allocasuarina fraseriana (Sheoak, Kondil) Allocasuarina humilis (Dwarf Sheoak)			
220.		Allocasuarina microstachya			
221.		Alternanthera denticulata (Lesser Joyweed)			
223.		Amyema preissii (Wireleaf Mistletoe)			
224.		Andersonia aristata (Rice Flower)			
225.		Andersonia lehmanniana			
226.		Andersonia lehmanniana subsp. lehmanniana			
227.		Anthocercis gracilis (Slender Tailflower)		Т	
228.		Aotus cordifolia			
229.		Artemisia arborescens (Silver Wormwood)	Υ		
230.		Astartea scoparia (Common Astartea)			
231.		Asteridea gracilis		P3	
232.		Asterolasia pallida			
233.		Astroloma ciliatum (Candle Cranberry)			
234.	6327	Astroloma foliosum (Candle Cranberry)			
235.	6334	Astroloma pallidum (Kick Bush)			
236.	6337	Astroloma stomarrhena (Red Swamp Cranberry)			
237.	36441	Babingtonia camphorosmae (Camphor Myrtle)			
238.	45403	Babingtonia pelloeae (Pelloe's Babingtonia)	v (dd) v	Department of Biodiversity,	WESTERN
atureMap is a collaborati	ve project of t	the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.	GOVERNMENT OF WESTERN AUSTRALIA	Conservation and Attractions	WESTERN AUSTRALIA MUSEUM



	Name ID	Species Name	Natura	lised	Conservation Code	¹ Endemic To Q Area
239.		Banksia armata var. armata				
240.		Banksia attenuata (Slender Banksia, Piara)				
241.		Banksia bipinnatifida subsp. bipinnatifida				
242.		Banksia dallanneyi subsp. dallanneyi var. dallanneyi				
243.		Banksia dallanneyi subsp. dallanneyi var. mellicula				
244.		Banksia grandis (Bull Banksia, Pulgarla)				
245.		Banksia ilicifolia (Holly-leaved Banksia)				
246.		Banksia incana Renksia manniasii (Fireusaad Banksia)				
247.		Banksia menziesii (Firewood Banksia)			-	
248. 249.		Banksia mimica (Summer Honeypot) Banksia pteridifolia subsp. vernalis			T P3	
249. 250.		Banksia sessilis var. sessilis			P3	
251.		Banksia squarrosa subsp. squarrosa				
252.		Banksia telmatiaea (Swamp Fox Banksia)				
253.		Banksia vestita (Summer Dryandra)				
254.		Banksia victoriae (Woolly Orange Banksia)				
255.		Beaufortia macrostemon (Darling Range Beaufortia)				
256.		Beaufortia purpurea (Purple Beaufortia)			P3	
257.		Beaufortia squarrosa (Sand Beaufortia, Sand Bottlebrush, Puno)			. 0	
258.		Billardiera floribunda (White-flowered Billardiera)				
259.		Billardiera fraseri (Elegant Pronaya)				
260.		Billardiera fusiformis (Australian Bluebell)				
261.		Boronia crenulata subsp. crenulata var. crenulata				
262.		Boronia cymosa (Granite Boronia)				
263.		Boronia humifusa			P1	
264.		Boronia ovata				
265.		Boronia ramosa				
266.	11381	Boronia ramosa subsp. anethifolia				
267.		Boronia ramosa subsp. ramosa				
268.		Boronia tenuis (Blue Boronia)			P4	
269.		Bossiaea aquifolium subsp. aquifolium				
270.		Bossiaea eriocarpa (Common Brown Pea)				
271.		Bossiaea ornata (Broad Leaved Brown Pea)				
272.	6341	Brachyloma preissii (Globe Heath)				
273.	7878	Brachyscome iberidifolia				
274.	2993	Brassica fruticulosa (Twiggy Turnip)	Υ			
275.	3178	Byblis gigantea (Rainbow Plant)			P3	
276.	5426	Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard)				
277.	35816	Calothamnus quadrifidus subsp. quadrifidus				
278.	5429	Calothamnus sanguineus (Silky-leaved Blood flower, Pindak)				
279.	5431	Calothamnus torulosus				
280.	5437	Calytrix acutifolia				
281.	5460	Calytrix fraseri (Pink Summer Calytrix)				
282.	5461	Calytrix glutinosa				
283.	5485	Calytrix variabilis				
284.	19713	Campsis radicans	Υ			
285.	2951	Cassytha flava (Dodder Laurel)				
286.	2952	Cassytha glabella (Tangled Dodder Laurel)				
287.	11501	Cassytha glabella forma casuarinae				
288.	11211	Cassytha glabella forma dispar				
289.	2956	Cassytha pomiformis (Dodder Laurel)				
290.	2957	Cassytha racemosa (Dodder Laurel)				
291.	11242	Cassytha racemosa forma pilosa				
292.	11799	Cassytha racemosa forma racemosa				
293.	7916	Centaurea melitensis (Maltese Cockspur, Malta Thistle)	Υ			
294.	6539	Centaurium erythraea (Common Centaury)	Υ			
295.	6542	Centaurium tenuiflorum	Υ			
296.		Centratherum punctatum				
297.		Chamelaucium uncinatum (Geraldton Wax)				
298.	8971	Chorizema cordatum				
299.	3753	Chorizema dicksonii (Yellow-eyed Flame Pea)				
300.	11900	Chrysanthemoides monilifera subsp. monilifera	Υ			
301.	2929	Clematis pubescens (Common Clematis)				
302.	4550	Comesperma calymega (Blue-spike Milkwort)				
303.		Comesperma ciliatum				
304.		Comesperma virgatum (Milkwort)				
305.		Commersonia corniculata				
	10050	Conospermum capitatum subsp. glabratum				
306.						
306. 307. 308.	1875	Conospermum huegelii (Slender Smokebush) Conospermum undulatum			Т	

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313. 1 314. 1 315. 1 316. 1 317. 1 318. 1 319. 320. 2 321. 3 322. 1 322. 3 324. 325. 326. 327. 328. 329. 1 330. 331. 332. 333. 334. 1 332. 333. 334. 1 335. 1 336. 1 337. 338. 339. 340. 341. 342. 343. 344. 345. 11 342. 343. 344. 345. 11	6349 5502 20074 17104 18320 13354 17701 11563 18397 7953 29054 35838 13470 4804 7420 7428 7454 5505 5508 18193 6218 3793 3799 3805 19747 18560 11879 3815 3819	Conostephium pendulum (Pearl Flower) Conostephium preissii Conothamnus trinervis Conyza sumatrensis Corymbia calophylla (Marri) Cotoneaster pannosus Craspedia variabilis Crassula closiana Crassula colorata var. colorata Crassula tetragona subsp. robusta Crepis foetida (Foetid Hawksbeard) Crepis foetida (Foetid Hawksbeard) Crepis foetida subsp. biloba Cryptandra arbutiflora var. arbutiflora Cryptandra nutans Dampiera alata (Winged-stem Dampiera) Dampiera coronata (Wedge-leaved Dampiera) Dampiera linearis (Common Dampiera) Darwinia apiculata (Scarp Darwinia) Darwinia citriodora (Lemon-scented Darwinia) Darwinia thymoides subsp. thymoides Daucus glochidiatus (Australian Carrot) Daviesia decurrens (Prickly Bitter-pea) Daviesia decurrens subsp. decurrens Daviesia divaricata subsp. divaricata	Y Y Y Y Y	Т	
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312. 2 313. 1 314. 1 315. 1 316. 1 317. 1 318. 1 320. 2 321. 3 322. 1 322. 1 322. 3 324. 3 225. 3 226. 3 27. 3 28. 3 39. 1 330. 331. 332. 333. 334. 1 335. 1 336. 1 337. 338. 339. 340. 341. 342. 343. 344. 345. 11 346. 347. 11	20074 17104 18320 13354 17701 11563 18397 7953 29054 35838 13470 4804 7420 7428 7454 5505 5508 18193 6218 3793 3799 3805 19747 18560 11879 3815 3819	Conyza sumatrensis Corymbia calophylla (Marri) Cotoneaster pannosus Craspedia variabilis Crassula closiana Crassula colorata var. colorata Crassula tetragona subsp. robusta Crepis foetida (Foetid Hawksbeard) Crepis foetida subsp. foetida (Stinking Hawksbeard) Cristonia biloba subsp. biloba Cryptandra arbutiflora var. arbutiflora Cryptandra nutans Dampiera alata (Winged-stem Dampiera) Dampiera coronata (Wedge-leaved Dampiera) Dampiera linearis (Common Dampiera) Darwinia apiculata (Scarp Darwinia) Darwinia citriodora (Lemon-scented Darwinia) Darwinia thymoides subsp. thymoides Daucus glochidiatus (Australian Carrot) Daviesia angulata Daviesia decurrens (Prickly Bitter-pea) Daviesia decurrens subsp. decurrens	Y Y Y	Т	
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317. 1 318. 1 319. 320. 2 321. 3 322. 1 322. 1 323. 324. 325. 326. 327. 328. 329. 1 330. 331. 332. 333. 334. 1 335. 1 336. 1 337. 338. 339. 340. 341. 342. 343. 344. 345. 1 346. 347. 1	11563 18397 7953 29054 35838 13470 4804 7420 7428 7454 5505 5508 18193 6218 3799 3805 19747 18560 11879 3815 3819	Crassula colorata var. colorata Crassula tetragona subsp. robusta Crepis foetida (Foetid Hawksbeard) Crepis foetida subsp. foetida (Stinking Hawksbeard) Cristonia biloba subsp. biloba Cryptandra arbutiflora var. arbutiflora Cryptandra nutans Dampiera alata (Winged-stem Dampiera) Dampiera coronata (Wedge-leaved Dampiera) Dampiera linearis (Common Dampiera) Darwinia apiculata (Scarp Darwinia) Darwinia citriodora (Lemon-scented Darwinia) Darwinia thymoides subsp. thymoides Daucus glochidiatus (Australian Carrot) Daviesia angulata Daviesia decurrens (Prickly Bitter-pea) Daviesia decurrens subsp. decurrens	Υ	Т	
318. 19. 319. 320. 2 321. 3 321. 3 324. 325. 326. 327. 328. 329. 1 330. 331. 332. 333. 334. 1 335. 1 336. 1 337. 338. 339. 340. 341. 342. 343. 344. 345. 1 346. 347. 1 1	18397 7953 29054 35838 13470 4804 7420 7428 7454 5505 5508 18193 6218 3799 3805 19747 18560 11879 3815 3819	Crassula tetragona subsp. robusta Crepis foetida (Foetid Hawksbeard) Crepis foetida subsp. foetida (Stinking Hawksbeard) Cristonia biloba subsp. biloba Cryptandra arbutiflora var. arbutiflora Cryptandra nutans Dampiera alata (Winged-stem Dampiera) Dampiera coronata (Wedge-leaved Dampiera) Dampiera linearis (Common Dampiera) Darwinia apiculata (Scarp Darwinia) Darwinia citriodora (Lemon-scented Darwinia) Darwinia thymoides subsp. thymoides Daucus glochidiatus (Australian Carrot) Daviesia angulata Daviesia cordata (Bookleaf) Daviesia decurrens (Prickly Bitter-pea) Daviesia decurrens subsp. decurrens	Υ	Т	
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340. 341. 342. 343. 344. 345. 346.	3824	Daviesia nudiflora			
341. 342. 343. 344. 345. 346. 347.		Daviesia rhoundra Daviesia physodes			
342. 343. 344. 345. 346. 347.		Daviesia polyphylla			
343. 344. 345. 346. 347.		Daviesia preissii			
344. 345. 1 346. 347. 1		Daviesia rhombifolia			
346. 347.		Daviesia triflora			
346. 347.		Diplopeltis huegelii subsp. lehmannii			
		Dipogon lignosus (Dolichos Pea)	Υ		
348.	13204	Drosera callistos			
	48724	Drosera collina			
349.	48751	Drosera drummondii			
350.	3095	Drosera erythrorhiza (Red Ink Sundew)			
351.	3097	Drosera gigantea (Giant Sundew)			
352.	3098	Drosera glanduligera (Pimpernel Sundew)			
353.	48768	Drosera hirsuta			
354.	13197	Drosera hyperostigma			
355.	3106	Drosera macrantha (Bridal Rainbow)			
356.	3109	Drosera menziesii (Pink Rainbow)			
357.		Drosera microphylla (Golden Rainbow)			
358.		Drosera pallida (Pale Rainbow)			
359.		Drosera platystigma (Black-eyed Sundew)			
		Drosera porrecta			
361.		Drosera pulchella (Pretty Sundew)			
362.		Drosera pycnoblasta (Pearly Sundew)			
363.		Drosera rosulata			
		Drosera sp. Branched styles (S.C. Coffey 193)			
365.		Drosera stolonifera (Leafy Sundew)			
366.		Drosera zonaria (Painted Sundew)			
		Dysphania pumilio (Clammy Goosefoot) Elatina gratioloides (Waterwort)			
368. 369.		Elatine gratioloides (Waterwort) Eremaea fimbriata			
370.		Eremaea rimbriata Eremaea pauciflora			
		Eremaea pauciflora Eremaea pauciflora var. pauciflora			
371.		Eremaea paucinora var. paucinora Erodium cygnorum (Blue Heronsbill)			
		Erodium cygnorum (Biue Heronsbill) Eryngium pinnatifidum subsp. pinnatifidum			
		Eryngium pinnaulioum suosp. pinnaulioum Erythrina x sykesii	Υ		
		Eucalyptus botryoides	Y		
		Eucalyptus camaldulensis (River Gum, Yabalinyba)	1		
377.		Eucalyptus decipiens (Limestone Marlock, Moit)			
		Eucalyptus grandis	Y		
-	•),	643	ment of Biodiversity,	MEST



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
379.		Eucalyptus laeliae (Darling Range Ghost Gum)			
380.		Eucalyptus marginata (Jarrah, Djara)			
381.		Eucalyptus marginata subsp. marginata (Jarrah)			
382. 383.		Eucalyptus marginata subsp. thalassica (Blue-leaved Jarrah) Eucalyptus rudis (Flooded Gum, Kulurda)			
384.		Eucalyptus todtiana (Coastal Blackbutt)			
385.		Eucalyptus wandoo (Wandoo, Wondu)			
386.	12906	Eucalyptus wandoo subsp. wandoo			
387.	3872	Euchilopsis linearis (Swamp Pea)			
388.		Eutaxia virgata			
389.		Ficus carica (Common Fig)	Y		
390.		Fumaria capreolata (Whiteflower Fumitory) Galium divaricatum	Y		
391. 392.		Gastrolobium acutum	Υ		
393.		Gastrolobium capitatum			
394.		Gastrolobium dilatatum			
395.		Gastrolobium epacridoides			
396.	20483	Gastrolobium linearifolium			
397.	3912	Gastrolobium oxylobioides (Champion Bay Poison)			
398.		Gastrolobium spathulatum (Poison Bush)			
399.		Genista linifolia (Flaxleaf Broom)	Υ		
400. 401.		Glinus lotoides (Hairy Carpet Weed) Glischrocaryon aureum (Common Popflower)			
401. 402.		Ginschrocaryon aureum (Common Popilower) Gomphocarpus fruticosus (Narrowleaf Cottonbush)	Υ		
403.		Gomphocarpus physocarpus	Y		
404.		Gompholobium aristatum			
405.	10909	Gompholobium confertum			
406.	3950	Gompholobium knightianum			
407.	3951	Gompholobium marginatum			
408.		Gompholobium polymorphum			
409. 410.		Gompholobium preissii Compholobium abuttlowarthii			
410.		Gompholobium shuttleworthii Gompholobium tomentosum (Hairy Yellow Pea)			
412.		Gonocarpus benthamii subsp. benthamii			
413.		Gonocarpus cordiger			
414.	29362	Goodenia coerulea			
415.	12520	Goodenia fasciculata			
416.		Goodenia pulchella subsp. Coastal Plain A (M. Hislop 634)			
417.		Grevillea bipinnatifida (Fuchsia Grevillea)			
418. 419.		Grevillea bipinnatifida subsp. bipinnatifida Grevillea endlicheriana (Spindly Grevillea)			
420.		Grevillea leucopteris (White Plume Grevillea)			
421.		Grevillea manglesii subsp. manglesii			
422.	2066	Grevillea pilulifera (Woolly-flowered Grevillea)			
423.	15839	Grevillea preissii subsp. preissii			
424.		Grevillea quercifolia (Oak-leaf Grevillea)			
425.		Grevillea synapheae (Catkin Grevillea)			
426. 427.		Grevillea synapheae subsp. synapheae Grevillea thelemanniana (Spider Net Grevillea)		т.	
428.		Grevillea thelemanniana (Spider Net Grevillea) Grevillea wilsonii (Native Fuchsia)		T	
429.		Guichenotia sarotes			
430.	2128	Hakea amplexicaulis (Prickly Hakea)			
431.		Hakea candolleana			
432.		Hakea conchifolia (Shell-leaved Hakea)			
433.		Hakea cristata (Snail Hakea)			
434. 435.		Hakea cyclocarpa (Ramshorn) Hakea erinacea (Hedge-hog Hakea)			
435.		Hakea incrassata (Marble Hakea)			
437.		Hakea laurina (Pincushion Hakea, Kodjet)			
438.		Hakea lissocarpha (Honey Bush)			
439.	2185	Hakea myrtoides (Myrtle Hakea)			
440.	2197	Hakea prostrata (Harsh Hakea)			
441.		Hakea ruscifolia (Candle Hakea)			
442.		Hakea sp. Eastern coastal plain (G.J. Keighery 8014)			
443. 444.		Hakea stenocarpa (Narrow-fruited Hakea) Hakea sulcata (Furrowed Hakea)			
444. 445.		Hakea sulcata (Furrowed Hakea) Hakea trifurcata (Two-leaf Hakea)			
446.		Hakea undulata (Wavy-leaved Hakea)			
447.		Halgania corymbosa		P3	
448.	3961	Hardenbergia comptoniana (Native Wisteria)			
			Department of	of Biodiversity,	WESTERN

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449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471.	6839 6856 29632 41020 5108 5112 5114 20051 19778 5134 5135 45534 5146 5148 5152 5155 5169	Hemiandra linearis (Speckled Snakebush) Hemiandra pungens (Snakebush) Hemigenia incana (Silky Hemigenia) Hemigenia parviflora Hemiphora bartlingii (Woolly Dragon) Hibbertia acerosa (Needle Leaved Guinea Flower) Hibbertia aurea Hibbertia commutata Hibbertia diamesogenos Hibbertia glomerata subsp. darlingensis Hibbertia huegelii Hibbertia hypericoides (Yellow Buttercups) Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470.	6856 29632 41020 5108 5112 5114 20051 19778 5134 5135 45534 5139 5146 5148 5152 5155 5169	Hemigenia incana (Silky Hemigenia) Hemigenia parviflora Hemiphora bartlingii (Woolly Dragon) Hibbertia acerosa (Needle Leaved Guinea Flower) Hibbertia aurea Hibbertia commutata Hibbertia diamesogenos Hibbertia glomerata subsp. darlingensis Hibbertia huegelii Hibbertia hypericoides (Yellow Buttercups) Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470.	29632 41020 5108 5112 5114 20051 19778 5134 5135 45534 5146 5148 5152 5155 5169	Hemigenia parviflora Hemiphora bartlingii (Woolly Dragon) Hibbertia acerosa (Needle Leaved Guinea Flower) Hibbertia aurea Hibbertia commutata Hibbertia diamesogenos Hibbertia glomerata subsp. darlingensis Hibbertia huegelii Hibbertia hypericoides (Yellow Buttercups) Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470.	41020 5108 5112 5114 20051 19778 5134 5135 45534 5146 5148 5152 5169 11481	Hemiphora bartlingii (Woolly Dragon) Hibbertia acerosa (Needle Leaved Guinea Flower) Hibbertia aurea Hibbertia commutata Hibbertia diamesogenos Hibbertia glomerata subsp. darlingensis Hibbertia huegelii Hibbertia hypericoides (Yellow Buttercups) Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470.	5108 5112 5114 20051 19778 5134 5135 45534 5139 5146 5148 5152 5155 5169	Hibbertia acerosa (Needle Leaved Guinea Flower) Hibbertia aurea Hibbertia commutata Hibbertia diamesogenos Hibbertia glomerata subsp. darlingensis Hibbertia huegelii Hibbertia hypericoides (Yellow Buttercups) Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470.	5112 5114 20051 19778 5134 5135 45534 5139 5146 5148 5152 5155 5169	Hibbertia aurea Hibbertia commutata Hibbertia diamesogenos Hibbertia glomerata subsp. darlingensis Hibbertia huegelii Hibbertia hypericoides (Yellow Buttercups) Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470.	5114 20051 19778 5134 5135 45534 5146 5148 5152 5155 5169	Hibbertia commutata Hibbertia diamesogenos Hibbertia glomerata subsp. darlingensis Hibbertia huegelii Hibbertia hypericoides (Yellow Buttercups) Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469.	20051 19778 5134 5135 45534 5139 5146 5148 5152 5155 5169	Hibbertia diamesogenos Hibbertia glomerata subsp. darlingensis Hibbertia huegelii Hibbertia hypericoides (Yellow Buttercups) Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469.	19778 5134 5135 45534 5139 5146 5148 5152 5155 5169	Hibbertia glomerata subsp. darlingensis Hibbertia huegelii Hibbertia hypericoides (Yellow Buttercups) Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470.	5134 5135 45534 5139 5146 5148 5152 5155 5169	Hibbertia huegelii Hibbertia hypericoides (Yellow Buttercups) Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
460. 461. 462. 463. 464. 465. 466. 467. 468. 469.	5135 45534 5139 5146 5148 5152 5155 5169	Hibbertia hypericoides (Yellow Buttercups) Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
461. 462. 463. 464. 465. 466. 467. 468. 469.	45534 5139 5146 5148 5152 5155 5169	Hibbertia hypericoides subsp. hypericoides Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
462. 463. 464. 465. 466. 467. 468. 469.	5139 5146 5148 5152 5155 5169	Hibbertia lasiopus (Large Hibbertia) Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
463. 464. 465. 466. 467. 468. 469.	5146 5148 5152 5155 5169	Hibbertia montana Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)			P4	
464. 465. 466. 467. 468. 469.	5148 5152 5155 5169 11481	Hibbertia mylnei Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)				
465. 466. 467. 468. 469. 470.	5152 5155 5169 11481	Hibbertia ovata Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)				
466. 467. 468. 469. 470.	5155 5169 11481	Hibbertia pilosa (Hairy Guinea Flower) Hibbertia serrata (Serrate Leaved Guinea Flower)				
467. 468. 469. 470.	5169 11481	Hibbertia serrata (Serrate Leaved Guinea Flower)				
468. 469. 470.	11481	,				
469. 470.		Hibbertia sp.				
470.		Hibbertia spicata subsp. spicata				
	48381	Hibbertia striata				
		Hibbertia subvaginata				
472.		Homalosciadium homalocarpum				
473.		Hovea chorizemifolia (Holly-leaved Hovea)				
474.		Hovea pungens (Devil's Pins, Puyenak)				
475.		Hovea trisperma (Common Hovea)				
476.		Humulus lupulus	Υ			
477.		Hyalosperma cotula	'			
478.		Hybanthus calycinus (Wild Violet)				
479.		Hybanthus floribundus subsp. floribundus				
480.		Hydrocotyle callicarpa (Small Pennywort)				
481.		Hydrocotyle striata			P1	
482.		Hypocalymma angustifolium (White Myrtle, Kudjid)			FI	
483.		Hypocalymma angustifolium subsp. Dandaragan plateau (S. Patrick 702A)				
484.		Hypocalymma robustum (Swan River Myrtle)				
485.		Hypochaeris glabra (Smooth Catsear)	Υ			
486.		Hypochaeris radicata (Flat Weed, Cats-ear)	Y			
487.		Isopogon asper	'			
488.		Isopogon divergens (Spreading Coneflower)				
489.		Isopogon drummondii			P3	
490.		Isopogon dubius (Pincushion Coneflower)			10	
491.		Isopogon sphaerocephalus (Drumstick Isopogon)				
492.		Isotoma hypocrateriformis (Woodbridge Poison)				
493.		Jacksonia alata				
494.		Jacksonia angulata				
495.		Jacksonia floribunda (Holly Pea)				
496.		Jacksonia furcellata (Grey Stinkwood)				
490.		Jacksonia gracillima			P3	
497.		Jacksonia Jehmannii			13	
490.		Jacksonia restioides				
500.		Jacksonia sternbergiana (Stinkwood, Kapur)				
500.		Kennedia coccinea (Coral Vine)				
501.		Kennedia prostrata (Scarlet Runner)				
503.		Kennedia stirlingii (Bushy Kennedia)				
503.		Kunzea glabrescens (Spearwood)				
505.		Kunzea micrantha				
506.		Labichea lanceolata subsp. lanceolata				
500.		Labichea punctata (Lance-leaved Cassia)				
507.		Lactuca serriola forma serriola	Υ			
509.		Lagenophora huegelii	ī			
510.		Lambertia multiflora (Many-flowered Honeysuckle)				
510.		Lambertia multiflora var. darlingensis				
511.		Lasiopetalum bracteatum (Helena Velvet Bush)			P4	
512.		Lasiopetalum glabratum Lasiopetalum glabratum			17	
513.		Lasiopetalum glutinosum subsp. glutinosum			P3	
			Υ		rs	
515. 516		Lathyrus tingitanus (Tangier Pea)				
516. 517.		Lavandula dentata var. candicans Lavandula stoechas subsp. stoechas	Y			
517.			Υ			
J 10.	13284	Lawrencella rosea	, feb.)	Department of Biodiversi		WESTE

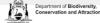


	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que
519.	7568	Lechenaultia biloba (Blue Leschenaultia)			702
520.	44490	Leontodon rhagadioloides	Υ		
521.	2342	Leptomeria cunninghamii			
522.	5847	Leptospermum erubescens (Roadside Teatree)			
523.	5850	Leptospermum laevigatum (Coast Teatree)	Υ		
524.	6367	Leucopogon capitellatus			
525.		Leucopogon conostephioides			
526.		Leucopogon nutans (Drooping Leucopogon)			
527.		Leucopogon polymorphus			
528.		Leucopogon propinguus			
529.		Leucopogon pulchellus (Beard-heath)			
530.		, , , , , , , , , , , , , , , , , , , ,			
		Leucopogon sprengelioides			
531.		Leucopogon squarrosus subsp. squarrosus			
532.		Leucopogon verticillatus (Tassel Flower)			
533.		Levenhookia pusilla (Midget Stylewort)			
534.		Levenhookia stipitata (Common Stylewort)			
535.	4362	Linum marginale (Wild Flax)			
536.	4363	Linum trigynum (French Flax)	Υ		
537.	7406	Lobelia rhombifolia (Tufted Lobelia)			
538.	7407	Lobelia rhytidosperma (Wrinkled-seeded Lobelia)			
539.	7365	Lonicera japonica (Japanese Honeysuckle)	Υ		
540.	8564	Lotus subbiflorus	Υ		
541.		Lotus uliginosus (Greater Lotus)	Υ		
542.		Lysimachia arvensis (Pimpernel)	Y		
543.		Lysinema pentapetalum			
544.		Lythrum hyssopifolia (Lesser Loosestrife)	Υ		
545.		Macarthuria apetala	'		
546.		Macarthuria australis			
547.		Marianthus bicolor (Painted Marianthus)			
548.		Marianthus candidus (White Marianthus)			
549.		Marianthus coeruleopunctatus (Blue-spotted Marianthus)			
550.	17635	Marianthus drummondianus			
551.	17633	Marianthus erubescens			
552.	4079	Medicago polymorpha (Burr Medic)	Υ		
553.	4080	Medicago sativa (Alfalfa)	Υ		
554.	19721	Melaleuca armillaris	Υ		
555.	36296	Melaleuca armillaris subsp. armillaris	Υ		
556.	13273	Melaleuca incana subsp. incana			
557.	5926	Melaleuca lateritia (Robin Redbreast Bush)			
558.		Melaleuca nesophila (Mindiyed)			
559.		Melaleuca parviceps			
560.		Melaleuca quinquenervia	Υ		
561.			'		
		Melaleuca radula (Graceful Honeymyrtle) Melaleuca rhaphiarhylla (Syumm Paparhark)			
562.		Melaleuca rhaphiophylla (Swamp Paperbark)			
563.		Melaleuca scabra (Rough Honeymyrtle, Wurru Bush)			
564.		Melaleuca trichophylla			
565.		Melaleuca viminea (Mohan)			
566.	14344	Millotia tenuifolia var. tenuifolia (Soft Millotia)			
567.	4090	Mirbelia dilatata (Holly-leaved Mirbelia)			
568.	4100	Mirbelia spinosa			
569.	7085	Misopates orontium (Lesser Snapdragon)	Υ		
570.	4662	Monotaxis grandiflora (Diamond of the Desert)			
571.		Monotaxis grandiflora var. grandiflora			
572.		Muehlenbeckia polybotrya			
573.		Nuytsia floribunda (Christmas Tree, Mudja)			
		Olax benthamiana			
574.					
575.		Olax scalariformis			
576.		Olearia paucidentata (Autumn Scrub Daisy)			
577.		Opercularia apiciflora			
578.		Opercularia echinocephala (Bristly Headed Stink Weed)			
579.	7348	Opercularia hispidula (Hispid Stinkweed)			
580.	18255	Opercularia vaginata (Dog Weed)			
581.	46207	Opuntia tomentosa	Υ		
301.		Ornithopus compressus (Yellow Serradella)	Υ		
582.	-	Orobanche minor (Lesser Broomrape)	Y		
582.	7122				
582. 583.			V		
582. 583. 584.	4348	Oxalis caprina	Y		
582. 583. 584. 585.	4348 4349	Oxalis caprina Oxalis corniculata (Yellow Wood Sorrel)	Υ		
582. 583. 584. 585. 586.	4348 4349 18331	Oxalis caprina Oxalis corniculata (Yellow Wood Sorrel) Oxalis debilis var. corymbosa (Pink Shamrock)			
582. 583. 584. 585.	4348 4349 18331 30375	Oxalis caprina Oxalis corniculata (Yellow Wood Sorrel)	Υ		



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
589.	4354	Oxalis incarnata	Υ		Alou
590.	4355	Oxalis perennans			
591.	4358	Oxalis purpurea (Largeflower Wood Sorrel)	Υ		
592.	17114	Paraserianthes lophantha subsp. lophantha			
593.	7089	Parentucellia latifolia (Common Bartsia)	Υ		
594.	5225	Passiflora filamentosa	Υ		
595.	10828	Pavonia hastata	Υ		
596.	6245	Pentapeltis peltigera			
597.	16477	Pericalymma ellipticum var. ellipticum			
598.	16478	Pericalymma ellipticum var. floridum			
599.	13911	Persicaria decipiens			
600.	2255	Persoonia angustiflora			
601.	2262	Persoonia elliptica (Spreading Snottygobble)			
602.	2267	Persoonia longifolia (Snottygobble)			
603.	2284	Petrophile biloba (Granite Petrophile)			
604.		Petrophile juncifolia			
605.		Petrophile linearis (Pixie Mops)			
606.		Petrophile macrostachya			
607.		Petrophile seminuda			
608.		Petrophile striata			
609.		Petrorhagia dubia	Y		
610.		Phillotheca spicata (Pepper and Salt)			
611.		Phyllanthus calycinus (False Boronia)	V		
612.		Phyllanthus tenellus	Y		
613. 614.		Physalis peruviana (Cape Gooseberry)	Y		
615.		Pilostyles hamiltonii Pimelea angustifolia (Narrow-leaved Pimelea)			
616.		,			
617.		Pimelea argentea (Silvery Leaved Pimelea) Pimelea ciliata (White Banjine)			
618.		Pimelea ciliata subsp. ciliata			
619.		Pimelea imbricata var. piligera			
620.		Pimelea lehmanniana subsp. nervosa			
621.		Pimelea rara (Summer Pimelea)		P4	
622.		Pimelea spectabilis (Bunjong)			
623.		Pimelea suaveolens subsp. suaveolens			
624.		Pimelea sulphurea (Yellow Banjine)			
625.		Pithocarpa corymbulosa (Corymbose Pithocarpa)		P3	
626.	8165	Pithocarpa pulchella (Beautiful Pithocarpa)			
627.	18352	Pithocarpa pulchella var. melanostigma			
628.	6253	Platysace filiformis			
629.	6255	Platysace juncea			
630.	8175	Podolepis gracilis (Slender Podolepis)			
631.	8177	Podolepis lessonii			
632.	8182	Podotheca angustifolia (Sticky Longheads)			
633.	8183	Podotheca chrysantha (Yellow Podotheca)			
634.	8395	Polygala myrtifolia (Myrtleleaf Milkwort)	Υ		
635.	4578	Polygala virgata	Υ		
636.		Protea repens	Y		
637.		Prunus cerasifera	Υ		
638.		Psoralea pinnata (African Scurfpea)	Y		
639.		Pterochaeta paniculata			
640.		Ptilotus declinatus (Curved Mulla Mulla)			
641.		Ptilotus drummondii var. drummondii (Pussytail)			
642.		Ptilotus esquamatus			
643. 644.		Ptilotus manglesii (Pom Poms, Mulamula) Pultenaea ericifolia			
645. 646.		Quinetia urvillei Raphanus raphanistrum (Wild Radish)	Υ		
647.		Rhodanthe manglesii	'		
648.		Rinzia crassifolia (Darling Range Rinzia)			
649.		Rubus anglocandicans	Υ		
650.		Rubus laudatus	Y		
651.		Rumex acetosella (Sorrel)	Y		
652.		Santalum acuminatum (Quandong, Warnga)			
653.		Scaevola calliptera			
654.		Scaevola glandulifera (Viscid Hand-flower)			
655.		Scaevola pilosa (Hairy Fan-flower)			
656.		Scaevola platyphylla (Broad-leaved Fanflower)			
657.	13182	Scaevola repens var. repens			
658.	6033	Scholtzia involucrata (Spiked Scholtzia)			
			Departmer Conserva	nt of Biodiversity, tion and Attractions	WESTERN

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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Qu Area
659.		Senecio diaschides			
660.	8212	Senecio leucoglossus		P4	
661.	20663	Senecio multicaulis subsp. multicaulis			
662.	4980	Sida hookeriana			
663.	2910	Silene nocturna (Mediterranean Catchfly)	Υ		
664.	8231	Sonchus oleraceus (Common Sowthistle)	Υ		
665.	2912	Spergula arvensis (Corn Spurry)	Υ		
666.	4205	Sphaerolobium linophyllum			
667.	4206	Sphaerolobium macranthum			
668.	4207	Sphaerolobium medium			
669.	6930	Stachys arvensis (Staggerweed)	Υ		
670.	4716	Stachystemon vermicularis			
671.	4733	Stackhousia monogyna			
672.	9070	Stackhousia pubescens (Downy Stackhousia)			
673.	43540	Stackhousia sp. Red-blotched corolla (A. Markey 911)		P3	
674.	13475	Stenanthemum humile			
675.		Stenopetalum gracile			
676.		Stirlingia latifolia (Blueboy)			
677.		Stylidium affine (Queen Triggerplant)			
678.		Stylidium amoenum (Lovely Triggerplant)			
679.		Stylidium androsaceum			
680.		Stylidium araeophyllum (Stilt Walker)			
681.		Stylidium breviscapum (Boomerang Triggerplant)			
682.		Stylidium breviscapum (Bootnerang Priggerplant) Stylidium brunonianum (Pink Fountain Triggerplant)			
683.		Stylidium bulbiferum (Circus Triggerplant)			
684.		Stylidium calcaratum (Book Triggerplant)			
685.		Stylidium caricifolium (Milkmaids)			
		• •			
686.		Stylidium carnosum (Fleshy-leaved Triggerplant)			
687.		Stylidium ciliatum (Golden Triggerplant)			
688.		Stylidium dichotomum (Pins-and-needles)			
689.		Stylidium diuroides (Donkey Triggerplant)			
690.		Stylidium diuroides subsp. diuroides			
691.		Stylidium eriopodum			
692.		Stylidium hispidum (White Butterfly Triggerplant)			
693.		Stylidium junceum (Reed Triggerplant)			
694.		Stylidium lineatum (Sunny Triggerplant)			
695.		Stylidium perpusillum (Tiny Triggerplant)			
696.		Stylidium petiolare (Horn Triggerplant)			
697.		Stylidium piliferum (Common Butterfly Triggerplant)			
698.		Stylidium pycnostachyum (Downy Triggerplant)			
699.	33106	Stylidium recurvum			
700.		Stylidium repens (Matted Triggerplant)			
701.	7787	Stylidium rhynchocarpum (Black-beaked Triggerplant)			
702.	25806	Stylidium scariosum			
703.	7798	Stylidium schoenoides (Cow Kicks)			
704.	7803	Stylidium striatum (Fan-leaved Triggerplant)		P4	
705.	45594	Stylidium tenue subsp. majusculum (Showy Fountain Triggerplant)			
706.	45593	Stylidium tenue subsp. tenue (Little Fountain Triggerplant)			
707.	23511	Stylidium thesioides (Delicate Triggerplant)			
708.	7806	Stylidium utricularioides (Pink Fan Triggerplant)			
709.					
	40947	Stylidium xanthellum			
710.		Stylidium xanthellum Styphelia filifolia		P3	
710. 711.	48297			P3	
	48297 6476	Styphelia filifolia		P3	
711.	48297 6476 2321	Styphelia filifolia Styphelia tenuiflora (Common Pinheath)		Р3	
711. 712.	48297 6476 2321 12914	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea)		P3	
711. 712. 713.	48297 6476 2321 12914 2323	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans		P3	
711. 712. 713. 714.	48297 6476 2321 12914 2323 2325	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima		P3	
711. 712. 713. 714. 715.	48297 6476 2321 12914 2323 2325 2329	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea)		P3	
711. 712. 713. 714. 715. 716.	48297 6476 2321 12914 2323 2325 2329 15532	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea) Synaphea spinulosa		P3	
711. 712. 713. 714. 715. 716. 717.	48297 6476 2321 12914 2323 2325 2329 15532 20135	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea) Synaphea spinulosa Synaphea spinulosa subsp. spinulosa Taxandria linearifolia		P3	
711. 712. 713. 714. 715. 716. 717. 718.	48297 6476 2321 12914 2323 2325 2329 15532 20135 4251	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea) Synaphea spinulosa Synaphea spinulosa subsp. spinulosa Taxandria linearifolia Templetonia drummondii		P3	
711. 712. 713. 714. 715. 716. 717. 718. 719.	48297 6476 2321 12914 2323 2325 2329 15532 20135 4251 4535	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea) Synaphea spinulosa Synaphea spinulosa Synaphea spinulosa subsp. spinulosa Taxandria linearifolia Templetonia drummondii Tetratheca hirsuta (Black Eyed Susan)		P3	
711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721.	48297 6476 2321 12914 2323 2325 2329 15532 20135 4251 4535 48342	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea) Synaphea spinulosa Synaphea spinulosa Synaphea spinulosa subsp. spinulosa Taxandria linearifolia Templetonia drummondii Tetratheca hirsuta (Black Eyed Susan) Tetratheca hirsuta subsp. hirsuta		P3	
711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721.	48297 6476 2321 12914 2323 2325 2329 15532 20135 4251 4535 48342 4537	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea) Synaphea spinulosa Synaphea spinulosa Synaphea spinulosa subsp. spinulosa Taxandria linearifolia Templetonia drummondii Tetratheca hirsuta (Black Eyed Susan) Tetratheca nuda		P3	
711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723.	48297 6476 2321 12914 2323 2325 2329 15532 20135 4251 4535 48342 4537 4544	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea) Synaphea spinulosa Synaphea spinulosa Synaphea spinulosa subsp. spinulosa Taxandria linearifolia Templetonia drummondii Tetratheca hirsuta (Black Eyed Susan) Tetratheca nuda Tetratheca setigera		P3	
711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724.	48297 6476 2321 12914 2323 2325 2329 15532 20135 4251 4535 48342 4537 4544 5080	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea) Synaphea spinulosa Synaphea spinulosa Synaphea spinulosa subsp. spinulosa Taxandria linearifolia Templetonia drummondii Tetratheca hirsuta (Black Eyed Susan) Tetratheca nuda Tetratheca setigera Thomasia foliosa		P3	
711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725.	48297 6476 2321 12914 2323 2325 2329 15532 20135 4251 4535 48342 4537 4544 5080 5084	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea) Synaphea spinulosa Synaphea spinulosa Synaphea spinulosa subsp. spinulosa Taxandria linearifolia Templetonia drummondii Tetratheca hirsuta (Black Eyed Susan) Tetratheca nuda Tetratheca setigera Thomasia foliosa Thomasia grandiflora (Large Flowered Thomasia)		P3	
711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724.	48297 6476 2321 12914 2323 2325 2329 15532 20135 4251 4535 48342 4537 4544 5080 5084	Styphelia filifolia Styphelia tenuiflora (Common Pinheath) Synaphea acutiloba (Granite Synaphea) Synaphea decorticans Synaphea gracillima Synaphea pinnata (Helena Synaphea) Synaphea spinulosa Synaphea spinulosa Synaphea spinulosa subsp. spinulosa Taxandria linearifolia Templetonia drummondii Tetratheca hirsuta (Black Eyed Susan) Tetratheca nuda Tetratheca setigera Thomasia foliosa		P3	

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Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
6280	Trachymene pilosa (Native Parsnip)			
8251	Trichocline spathulata (Native Gerbera)			
4291	Trifolium arvense (Hare's Foot Clover)	Υ		
17542	Trifolium arvense var. arvense	Υ		
17763	Trifolium campestre var. campestre (Hop Clover)	Υ		
4298	Trifolium hirtum (Rose Clover)	Υ		
17788	Trifolium pratense var. sativum	Υ		
15509	Trifolium tomentosum var. tomentosum	Υ		
4737	Tripterococcus brunonis (Winged Stackhousia)			
13479	Trymalium ledifolium var. rosmarinifolium			
33418	Trymalium odoratissimum subsp. odoratissimum			
		Υ		
38388	Ursinia anthemoides subsp. anthemoides	Υ		
8257	Vellereophyton dealbatum (White Cudweed)	Υ		
15431	Verticordia acerosa var. acerosa			
15432	Verticordia densiflora var. densiflora			
15433	Verticordia huegelii var. huegelii			
15434	Verticordia insignis subsp. insignis			
14714	Verticordia lindleyi subsp. lindleyi		P4	
6107	Verticordia pennigera			
15618	Verticordia plumosa var. plumosa			
4325	Viminaria juncea (Swishbush, Koweda)			
6575	Vinca major (Blue Periwinkle)	Υ		
17042	Vitis vinifera	Υ		
7389	Wahlenbergia preissii			
6283	Xanthosia atkinsoniana			
6284	Xanthosia candida			
6285	Xanthosia ciliata			
6289	Xanthosia huegelii			
44861	Xerochrysum macranthum			
24020	Calavian anaidantalia (Mantara Minnau)			
34028	,			
	Finalioceros caudimaculatus			
46334	Amanita kalamundae (Kalamunda Lepidella)		P3	
	Austroboletus occidentalis			
	Boletus sp.			
	Coltricia cinnamomea			
38771	Coltriciella dependens			
38874	Cortinarius globuliformis			
	Hebeloma aminophilum			
	Hydnangium carneum			
38796	Hypholoma australe			
48517	Inocybe fibrillosibrunnea			
38802	Laccocephalum tumulosum			
	Lactarius clarkeae			
	Phytophthora cinnamomi			
	Pisolithus sp.			
38836				
	Schizophyllum commune			
38843	• •			
	-			
	•			
1				
85	Macrozamia riedlei (Zamia, Djiridji)			
rwort)				
•,	Asterella drummondii			
	Riccia multifida			
	Aname mainae			
	Aname tepperi			
	Aname tepperi Arachnura higginsi			
	Aname tepperi Arachnura higginsi Araneus cyphoxis			
	Aname tepperi Arachnura higginsi			
	6280 8251 4291 17542 17763 4298 17788 15509 4737 13479 33418 8255 38388 8257 15431 15432 15433 15434 14714 6107 15618 4325 6575 17042 7389 6283 6284 6285 6289 44861 34028 46334 38771 38771 38874 38796 48517 38802	Boletus sp. Coltricia cinnamomea 38771 Coltriciella dependens 38874 Cortinarius globuliformis Hebeloma aminophilum Hydnangium carneum 38796 Hypholoma australe 48517 Inocybe fibrillosibrunnea 38802 Laccocephalum tumulosum Lactarius clarkeae Phytophthora cinnamomi Pisolithus sp. 38836 Russula erumpens 38837 Russula flocktoniae Schizophyllum commune 38843 Tapinella panuoides 45845 Tilletia viennotii 45896 Ustilago bromivora 45902 Ustilago nuda 45906 Ustilago tepperi	8251 Trichocimo spathulata (Nativo Gerbera) 8251 Trichocimo spathulata (Nativo Gerbera) 8251 Trichocimo spathulata (Nativo Gerbera) 8261 Trichocimo spathulata (Nativo Gerbera) 8271 Trichium anvense var. avenses 9271 Trichium anvense var. avenses 9272 Trichium anvense var. avenses 9273 Trichium anvense var. avenses 9274 Trichium praterios var. avenses 9275 Tripherococcus brunonis (Winged Stackhousia) 8274 Tripherococcus brunonis (Winged Stackhousia) 8274 Tripherium dedrolium var. rosmarinifolium 82850 Urainia anthemoriosia subca, nothemoriosis 8275 Valiereaphyton deatlatum (Winle Culciweed) 82877 Vellereaphyton deatlatum (Winle Culciweed) 82874 Verlicordia deardsa var. adenaliora 82874 Verlicordia insignis subcp. Indibyt 82874 Verlicordia insignis subcp. Indibyt 82874 Verlicordia insignis subcp. Indibyt 82875 Verlicordia insignis subcp. Indibyt 82875 Virimaria junces (Suishbush, Koweda) 82975 Virimaria junces (Suishbush, Koweda) 82975 Virimaria junces (Suishbush, Koweda) 8298 Xanthosia adimosoriana 83871 Coltricia intramomea 83871 Coltricia dependents 83874 Coltricia dependents 83875 Coltricia intramomea 83875 Coltricia intramomea 83876 Lacoccephalum turulosum 8778 Pylypohotroa cinsamomi 8788 Pilypohotroa cinsamomi 8789 Pilysophtroa cinsamomi 8780 Pilospi Broilius prunue 87898 Valsilago tromivora 87897 Suissala incokroniae 87815 Sickopyllum commune 87898 Valsilago tromivora 87897 Sickopyllum commune 87898 Valsilago tromivora 87816 Sickopyllum commune 87898 Valsilago tromivora 87816 Sickopyllum commune	SERIOR Trachymense pilotae (Patries Food Clover)



792.	Name ID	Species Name	Natural	ised Cons	ervation Code	¹ Endemic To Quer Area
		Artoria linnaei				
793.		Austracantha minax				
794.		Backobourkia heroine				
795.		Ballarra longipalpus				
796.		Cercophonius granulosus				
797.		Cercophonius sulcatus				
798.	22020	Ceryerda cursitans				
799.	33939	Cherax cainii (Marron) Cherax destructor				
800. 801.		Cherax quinquecarinatus				
802.		Cormocephalus aurantiipes				
803.		Cormocephalus rubriceps				
804.		Cormocephalus strigosus				
805.		Cormocephalus turneri				
806.		Delena cancerides				
807.		Dingosa serrata				
808.		Dinocambala ingens				
809.		Eriophora biapicata				
810.		Eupograpta kottae				
811.						
812.		Holgorica storri Holconia westralia				
813.		Idiommata blackwalli				
814.		Isopeda leishmanni				
815.		Isopeda leistimarini Isopedella cana				
816.		Latrodectus hasseltii				
817.		Masasteron maini				
817.						
818. 819.		Missulena granulosa Missulena hoggi				
820.		Missulena occatoria				
821.						
		Nephila edulis				
822. 823.		Occiperipatoides gilesii Ommatoiulus moreletii				
824.						
		Oxyopes gracilipes				
825.		Raveniella cirrata				
826. 827.		Raveniella peckorum				
828.		Scolopendra laeta				
829.		Synsphyronus magnus Tasmanicosa leuckartii				
830.						
		Urodacus novaehollandiae				
831.		Urodacus planimanus Venator immansueta				
832. 833.		Venatrix arenaris				
834.	24112	Westralunio carteri (Carter's Freshwater Mussel)			Т	
034.	34113	Westiaunio Carten (Cartens Freshwater Mussel)			'	
₋ichen						
835.	42106	Austroparmelina conlabrosa				
836.	27668	Cladia schizopora				
837.	27906	Paraporpidia leptocarpa				
838.	27952	Pertusaria remota				
839.	28356	Xanthoparmelia verrucella				
/lammal						
840.	24088	Antechinus flavipes subsp. leucogaster (Yellow-footed Antechinus, Mardo)				
841.		Bettongia penicillata subsp. ogilbyi (Woylie, Brush-tailed Bettong)			Т	
842.		Cercartetus concinnus (Western Pygmy-possum, Mundarda)			1	
843.		Cercarretus concinnus (western Pygmy-possum, mundarda) Chalinolobus gouldii (Gould's Wattled Bat)				
844.		Dasyurus geoffroii (Chuditch, Western Quoll)			т	
845.					Т	
		Funambulus pennanti (Indian Palm Squirrel)	Y		D/I	
846.		Hydromys chrysogaster (Water-rat, Rakali)			P4	
0.47		Isoodon fusciventer (Quenda, southwestern brown bandicoot) Macronus fuliginosus (Wastern Grey Kangargo)			P4	
847. 848	24132	Macropus fuliginosus (Western Grey Kangaroo) Mus musculus (House Mouse)	Υ			
848.	24222	IVIUS TITUSGUIUS TETOUSE IVIOUSET	Y			
848. 849.					D4	
848. 849. 850.	48022	Notamacropus irma (Western Brush Wallaby)			P4	
848. 849. 850. 851.	48022 24194	Notamacropus irma (Western Brush Wallaby) Nyctophilus geoffroyi (Lesser Long-eared Bat)			P4	
848. 849. 850.	48022 24194	Notamacropus irma (Western Brush Wallaby) Nyctophilus geoffroyi (Lesser Long-eared Bat) Phascogale tapoatafa subsp. wambenger (South-western Brush-tailed Phascogale,			P4 S	
848. 849. 850. 851. 852.	48022 24194 48070	Notamacropus irma (Western Brush Wallaby) Nyctophilus geoffroyi (Lesser Long-eared Bat) Phascogale tapoatafa subsp. wambenger (South-western Brush-tailed Phascogale, Wambenger)				
848. 849. 850. 851. 852.	48022 24194 48070 24245	Notamacropus irma (Western Brush Wallaby) Nyctophilus geoffroyi (Lesser Long-eared Bat) Phascogale tapoatafa subsp. wambenger (South-western Brush-tailed Phascogale, Wambenger) Rattus rattus (Black Rat)	Y			
848. 849. 850. 851. 852. 853.	48022 24194 48070 24245 24199	Notamacropus irma (Western Brush Wallaby) Nyctophilus geoffroyi (Lesser Long-eared Bat) Phascogale tapoatafa subsp. wambenger (South-western Brush-tailed Phascogale, Wambenger) Rattus rattus (Black Rat) Scotorepens balstoni (Inland Broad-nosed Bat)	Y		S	
848. 849. 850. 851. 852. 853. 854.	48022 24194 48070 24245 24199 24145	Notamacropus irma (Western Brush Wallaby) Nyctophilus geoffroyi (Lesser Long-eared Bat) Phascogale tapoatafa subsp. wambenger (South-western Brush-tailed Phascogale, Wambenger) Rattus rattus (Black Rat) Scotorepens balstoni (Inland Broad-nosed Bat) Setonix brachyurus (Quokka)	Y			
848. 849. 850. 851. 852. 853. 854. 855. 856.	48022 24194 48070 24245 24199 24145 24167	Notamacropus irma (Western Brush Wallaby) Nyctophilus geoffroyi (Lesser Long-eared Bat) Phascogale tapoatafa subsp. wambenger (South-western Brush-tailed Phascogale, Wambenger) Rattus rattus (Black Rat) Scotorepens balstoni (Inland Broad-nosed Bat) Setonix brachyurus (Quokka) Tarsipes rostratus (Honey Possum, Noolbenger)	Y		S	
848. 849. 850. 851. 852. 853. 854.	48022 24194 48070 24245 24199 24145 24167	Notamacropus irma (Western Brush Wallaby) Nyctophilus geoffroyi (Lesser Long-eared Bat) Phascogale tapoatafa subsp. wambenger (South-western Brush-tailed Phascogale, Wambenger) Rattus rattus (Black Rat) Scotorepens balstoni (Inland Broad-nosed Bat) Setonix brachyurus (Quokka)	Y	Department of Biodiversation and Attrac	S T	WESTER!



	a d a				Area
nocotyle 858.		Agave americana (Century Plant)	Y		
859.		Agrostis gigantea (Redtop Bent)	Y		
860.		Agrostocrinum hirsutum	•		
861.		Agrostocrinum scabrum (Blue Grass Lily)			
862.		Aira caryophyllea (Silvery Hairgrass)	Υ		
863.		Aira cupaniana (Silvery Hairgrass)	Υ		
864.		Alexgeorgea nitens			
865.	1374	Allium ampeloprasum	Υ		
866.	194	Amphipogon amphipogonoides			
867.	197	Amphipogon debilis			
868.	199	Amphipogon strictus (Greybeard Grass)			
869.	200	Amphipogon turbinatus			
870.	11470	Anigozanthos bicolor subsp. bicolor			
871.	11434	Anigozanthos humilis subsp. humilis			
872.	1411	Anigozanthos manglesii (Mangles Kangaroo Paw, Kurulbrang)			
873.		Anigozanthos manglesii subsp. manglesii			
874.		Anigozanthos viridis subsp. viridis			
875.		Anthoxanthum odoratum (Sweet Vernal Grass)	Υ		
876.		Aphelia cyperoides			
877.		Asphodelus fistulosus (Onion Weed)	Υ		
878.		Austrostina plannificaina			
879.		Austrostipa mellia			
880. 881		Austrostipa mollis			
881. 882.		Austrostipa variabilis Avellinia michelii	V		
883.		Axonopus fissifolius	Y		
884.		Baeometra uniflora	Y		
885.		Baumea rubiginosa	ī		
886.		Borya sphaerocephala (Pincushions)			
887.		Brachypodium distachyon (False Brome)	Υ		
888.		Briza maxima (Blowfly Grass)	Y		
889.		Briza minor (Shivery Grass)	Y		
890.		Bromus diandrus (Great Brome)	Y		
891.		Bromus hordeaceus (Soft Brome)	Y		
892.		Burchardia bairdiae			
893.	12770	Burchardia congesta			
894.	1385	Burchardia multiflora (Dwarf Burchardia)			
895.	1276	Caesia micrantha (Pale Grass Lily)			
896.	15330	Caladenia arenicola			
897.	44900	Caladenia denticulata subsp. rubella			
898.	1590	Caladenia ferruginea (Rusty Spider Orchid)			
899.	1592	Caladenia flava (Cowslip Orchid)			
900.		Caladenia flava subsp. flava			
901.		Caladenia footeana			
902.		Caladenia hiemalis			
903.		Caladenia longicauda subsp. clivicola			
904.		Caladenia longicauda subsp. eminens			
905.		Caladenia longicauda subsp. longicauda			
906.		Caladenia paludosa			
907.		Caladenia reptans subsp. reptans			
908.		Calectasia narragara			
909. 910.		Caustis dioica Cenchrus macrourus (African Feather Grass)	Υ		
910.		Cenchrus purpureus (Elephant Grass)	Y		
911. 912.		Centrolepis drummondiana	Ť		
912.		Chamaescilla corymbosa (Blue Squill)			
914.		Chamaescilla corymbosa var. corymbosa			
915.		Chamaescilla versicolor			
916.		Chordifex sinuosus			
917.		Chorizandra enodis (Black Bristlerush)			
918.		Colocasia esculenta (Taro)			
919.		Colocasia esculenta var. esculenta	Υ		
920.		Conostylis aculeata subsp. aculeata			
921.		Conostylis aculeata subsp. preissii			
922.		Conostylis androstemma (Trumpets)			
923.		Conostylis aurea (Golden Conostylis)			
924.		Conostylis candicans subsp. candicans			
925.		Conostylis caricina .			
926.		Conostylis caricina subsp. caricina	. Estal .		
			Department Department	nt of Biodiversity,	WESTE



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
927.	1434	Conostylis festucacea			
928.	1436	Conostylis juncea			
929.		Conostylis setigera (Bristly Cottonhead)			
930.		Conostylis setigera subsp. setigera			
931.		Conostylis setosa (White Cottonhead)	V		
932. 933.		Cortaderia selloana subsp. selloana Cyanicula gemmata	Υ		
934.		Cyanicula ixioides subsp. ixioides		P4	
935.		Cyanicula sericea			
936.		Cyathochaeta avenacea			
937.		Cyathochaeta clandestina			
938.	17618	Cyathochaeta equitans			
939.	285	Cynosurus echinatus (Rough Dogstail)	Υ		
940.	783	Cyperus congestus (Dense Flat-sedge)	Υ		
941.	792	Cyperus eragrostis (Umbrella Sedge)	Υ		
942.		Cyperus papyrus	Υ		
943.		Cyperus tenellus (Tiny Flatsedge)	Υ		
944.		Cyperus vorsteri	Υ		
945.		Cyrtostylis huegelii			
946. 947.		Dasypogon bromeliifolius (Pineapple Bush) Dasypogon obliquifolius			
947.		Desmocladus asper			
949.		Desmocladus asper Desmocladus fasciculatus			
950.		Dianella revoluta var. divaricata			
951.		Dichopogon capillipes			
952.	311	Digitaria ciliaris (Summer Grass)	Υ		
953.	316	Digitaria longiflora			
954.	320	Digitaria sanguinalis (Crab Grass)	Υ		
955.	1509	Dioscorea hastifolia (Warrine, Wararn)			
956.	19649	Disa bracteata	Υ		
957.		Diuris brumalis			
958.		Diuris corymbosa			
959.	1634	Diuris laxiflora (Bee Orchid)			V
960. 961.	12020	Diuris longifolia var. parviflora Diuris magnifica			Υ
962.		Diuris ostrina			
963.		Drakaea gracilis			
964.		Drakaea livida			
965.	11105	Echinochloa crus-galli	Υ		
966.	16093	Echinochloa esculenta	Υ		
967.	349	Ehrharta longiflora (Annual Veldt Grass)	Υ		
968.	1643	Elythranthera brunonis (Purple Enamel Orchid)			
969.	1644	Elythranthera emarginata (Pink Enamel Orchid)			
970.	374	Eragrostis cilianensis (Stinkgrass)	Υ		
971.		Eriochilus dilatatus subsp. multiflorus			
972.		Eriochilus helonomos			
973.		Gahnia aristata			
974.		Gastridium phleoides (Nitgrass)	Y		
975. 976.		Gladiolus caryophyllaceus (Wild Gladiolus) Haemodorum discolor	Y		
977.		Haemodorum laxum			
978.		Haemodorum Ioratum		P3	
979.		Haemodorum simplex			
980.		Haemodorum spicatum (Mardja)			
981.		Hensmania turbinata			
982.	1526	Hesperantha falcata	Υ		
983.	444	Holcus lanatus (Yorkshire Fog)	Υ		
984.	451	Hordeum vulgare (Barley)	Υ		
985.		Ixia maculata (Yellow Ixia)	Υ		
986.		Ixia paniculata	Y		
987.		Ixia polystachya (Variable Ixia)	Υ		
988.		Johnsonia pubescens (Pipe Lily)			
	19632	Johnsonia pubescens subsp. pubescens Juncus articulatus (Jointed Rush)	Υ		
989.	1177	various articulatus tecinicu (1931)	ī		
989. 990.			V		
989. 990. 991.	1180	Juncus capitatus (Capitate Rush)	Y		
989. 990.	1180 1186		Y Y		
989. 990. 991. 992.	1180 1186 1221	Juncus capitatus (Capitate Rush) Juncus microcephalus			
989. 990. 991. 992. 993.	1180 1186 1221 11464	Juncus capitatus (Capitate Rush) Juncus microcephalus Kingia australis (Kingia, Pulonok)			

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museur







997. 998. 999. 1000.	42741	Lepidosperma angustatum			
999. 1000.		I amidaanawaa ansiaala			
1000.		Lepidosperma apricola			
		Lepidosperma drummondii			
1001.		Lepidosperma leptostachyum			
	940	Lepidosperma pubisquameum			
1002.		Lepidosperma sp.			
1003.		Lepidosperma sp. P1 small head (M.D. Tindale 166A)			
1004.		Lepidosperma squamatum			
1005.		Lepidosperma tetraquetrum			
1006.		Leporella fimbriata (Hare Orchid)			
1007.		Leptocarpus canus (Hoary Twine-rush)			
1008.		Leptocarpus decipiens	.,		
1009.		Lolium multiflorum (Italian Ryegrass)	Υ		
1010.		Lomandra caespitosa (Tufted Mat Rush)			
1011.		Lomandra hermaphrodita			
1012. 1013.		Lomandra integra Lomandra micrantha (Small-flower Mat-rush)			
1013.		Lomandra micrantha subsp. micrantha			
1014.		Lomandra nigricans			
1015.		Lomandra preissii			
1016.		Lomandra purpurea (Purple Mat Rush)			
1017.		Lomandra sericea (Silky Mat Rush)			
1018.		Lomandra spartea Lomandra spartea			
1019.		Lyginia barbata			
1020.		Melinis repens	Υ		
1021.		Mesomelaena graciliceps			
1022.		Mesomelaena pseudostygia			
1024.		Mesomelaena tetragona (Semaphore Sedge)			
1025.		Microlaena stipoides (Weeping Grass)			
1026.		Microtis atrata (Swamp Mignonette Orchid)			
1027.		Microtis media subsp. densiflora			
1028.		Microtis media subsp. media			
1029.		Narcissus tazetta subsp. italicus	Υ		
1030.		Neurachne alopecuroidea (Foxtail Mulga Grass)			
1031.		Ornithogalum thyrsoides (Chinkerichee)	Υ		
1032.		Orthrosanthus laxus var. laxus (Morning Iris)			
1033.		Paspalum dilatatum	Υ		
1034.	528	Paspalum distichum (Water Couch)	Υ		
1035.	1542	Patersonia babianoides			
1036.	1546	Patersonia juncea (Rush Leaved Patersonia)			
1037.	1550	Patersonia occidentalis (Purple Flag, Koma)			
1038.	1551	Patersonia pygmaea (Pygmy Patersonia)			
1039.	14433	Patersonia rudis subsp. rudis			
1040.	11550	Patersonia umbrosa var. xanthina (Yellow Flags)			
1041.	43762	Pauridia occidentalis var. quadriloba			
1042.	40424	Pentameris airoides subsp. airoides	Υ		
1043.	547	Phalaris angusta	Υ		
1044.	551	Phalaris minor (Lesser Canary Grass)	Υ		
1045.	552	Phalaris paradoxa (Paradoxa Grass)	Υ		
1046.	20460	Pheladenia deformis			
1047.	1478	Phlebocarya ciliata			
1048.	1479	Phlebocarya filifolia			
1049.	573	Poa drummondiana (Knotted Poa)			
1050.		Poa porphyroclados			
1051.		Potamogeton crispus (Curly Pondweed)			
1052.		Prasophyllum elatum (Tall Leek Orchid)			
1053.	1672	Prasophyllum fimbria (Fringed Leek Orchid)			
1054.		Prasophyllum giganteum (Bronze Leek Orchid)			
1055.		Prasophyllum hians (Yawning Leek Orchid)			
1056.		Prasophyllum parvifolium (Autumn Leek Orchid)			
1057.		Prasophyllum plumiforme			
1058.		Pterostylis barbata (Bird Orchid)			
1059.		Pterostylis recurva (Jug Orchid)			
1060.		Pterostylis sanguinea			
1061.		Pterostylis vittata (Banded Greenhood)			
1062.		Pyrorchis nigricans (Red beaks, Elephants ears)			
1063.		Romulea flava var. minor	Υ		
1064.		Romulea rosea (Guildford Grass)	Υ		
1065.		Romulea rosea var. communis	Υ		
4000	40431	Rytidosperma acerosum	2.3		
1066.			u fieleb u	ent of Biodiversity,	WESTER



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que
1067.	40427	Rytidosperma setaceum			70
1068.	973	Schoenus asperocarpus (Poison Sedge)			
1069.	978	Schoenus brevisetis			
1070.	979	Schoenus caespititius			
1071.	991	Schoenus grammatophyllus			
1072.		Schoenus latitans			
1073.		Schoenus nanus (Tiny Bog Rush)			
1074.		Schoenus pleiostemoneus			
1075.		Schoenus unispiculatus			
1075.		Setaria palmifolia (Palm Grass)			
			Y		
1077.		Setaria parviflora	Y		
1078.		Sorghum halepense (Johnson Grass)	Υ		
1079.		Sowerbaea laxiflora (Purple Tassels)			
1080.		Sparaxis bulbifera	Υ		
1081.	1560	Sparaxis pillansii (Harlequin Flower)	Υ		
1082.	1260	Stypandra glauca (Blind Grass)			
1083.	1034	Tetraria capillaris (Hair Sedge)			
1084.	1036	Tetraria octandra			
1085.	667	Tetrarrhena laevis (Forest Ricegrass)			
1086.	1701	Thelymitra antennifera (Vanilla Orchid)			
1087.	10856	Thelymitra benthamiana (Leopard Orchid)			
1088.		Thelymitra crinita (Blue Lady Orchid)			
1089.		Thelymitra macrophylla			
1090.		Thelymitra magnifica (Crystal Brook Star Orchid)		P1	
				T	
1091. 1092.		Thelymitra stellata (Star Orchid) Thelymitra vulgaris			
		, ,			
1093.		Themeda triandra			
1094.		Thysanotus anceps		P3	
1095.	1318	Thysanotus arbuscula			
1096.	1328	Thysanotus dichotomus (Branching Fringe Lily)			
1097.	1330	Thysanotus fastigiatus			
1098.	1338	Thysanotus manglesianus (Fringed Lily)			
1099.	1339	Thysanotus multiflorus (Many-flowered Fringe Lily)			
1100.	1343	Thysanotus patersonii			
1101.	1350	Thysanotus scaber			
1102.	46055	Thysanotus sp. Coastal plain (N.H. Brittan 66/63)			
1103.		Thysanotus sparteus			
1104.		Thysanotus tenellus			
1105.		Thysanotus thyrsoideus			
		Thysanotus triandrus			
1106.		•			
1107.		Tribolium uniolae	Y		
1108.		Tribonanthes brachypetala (Nodding Tiurndin)			
1109.		Tribonanthes longipetala (Branching Tiurndin)			
1110.	1361	Tricoryne elatior (Yellow Autumn Lily)			
1111.	1363	Tricoryne tenella			
1112.	43207	Tricostularia exsul			
1113.	151	Triglochin striata			
1114.	38401	Tritonia gladiolaris (Lined Tritonia)	Υ		
1115.		Vallisneria nana			
1116.		Vulpia bromoides (Squirrel Tail Fescue)	Υ		
1117.		Vulpia myuros (Rat's Tail Fescue)	Y		
1118.		Watsonia meriana (Bulbil Watsonia)	Y		
1119.		Watsonia meriana var. meriana	Y		
1119.		Wurmbea dioica subsp. alba	1		
		·			
1121.		Wurmbea pygmaea			
1122.		Wurmbea tenella (Eight Nancy)			
1123.		Xanthorrhoea acanthostachya			
1124.		Xanthorrhoea brunonis subsp. brunonis			
1125.	1252	Xanthorrhoea drummondii			
1126.	1253	Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi)			
1127.	1256	Xanthorrhoea preissii (Grass tree, Palga)			
toulal and the d	· /F				
teridophyte		A.F			
1128.		Adiantum aethiopicum (Common Maidenhair)			
1129.	31	Cheilanthes austrotenuifolia			
1130.	34	Cheilanthes distans (Bristly Cloak Fern)			
1131.	51	Cyathea cooperi	Υ		
1132.	17336	Dennstaedtia davallioides	Υ		Υ
	65	Pleurosorus rutifolius (Blanket Fern)			
1133.		,			
		Pleurosorus subglandulosus			
1133. 1134. 1135.	66	Pleurosorus subglandulosus Salvinia molesta (Salvinia)			



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
			Υ		
Reptile					
1136.	25242	Acanthophis antarcticus (Southern Death Adder)		P3	
1137.		Acritoscincus trilineatus (Western Three-lined Skink)			
1138.		Antaresia stimsoni subsp. stimsoni (Stimson's Python)			
1139.		Aprasia repens (Sand-plain Worm-lizard)			
1140.		Brachyurophis semifasciatus (Southern Shovel-nosed Snake)			
1141.		Chelodina colliei (South-western Snake-necked Turtle)			
1142.		Christinus marmoratus (Marbled Gecko)			
1143.		Cryptoblepharus buchananii			
1144.		Ctenophorus ornatus (Ornate Crevice-Dragon)			
1145.		Ctenotus fallens			
1146.		Delma grayii			
1147.		Demansia psammophis subsp. reticulata (Yellow-faced Whipsnake)			
1148.		Diplodactylus granariensis subsp. granariensis			
1149.		Diplodactylus polyophthalmus			
1150.		Egernia kingii (King's Skink)			
1151.		Gehyra variegata			
1152.		Hemiergis initialis subsp. initialis			
1153.		Hemiergis quadrilineata			
1154.		Lerista distinguenda			
1155.		Lerista elegans			
1156.		Lialis burtonis			
1157.		Menetia greyii			
1158.		Morelia spilota subsp. imbricata (Carpet Python)			
1159.		Neelaps bimaculatus (Black-naped Snake)			
1160.		Neelaps calonotos (Black-striped Snake, black-striped burrowing snake)		P3	
1161.		Notechis scutatus (Tiger Snake)			
1162.		Parasuta gouldii			
1163.		Parasuta nigriceps			
1164.		Pletholax gracilis subsp. gracilis (Keeled Legless Lizard)			
1165.		Pogona minor subsp. minor (Dwarf Bearded Dragon)			
1166.		Pseudechis australis (Mulga Snake)			
1167.		Pseudonaja affinis subsp. affinis (Dugite)			
1168.	25266	Simoselaps bertholdi (Jan's Banded Snake)			
1169.	24943	Strophurus spinigerus subsp. inornatus			
1170.	25203	Tiliqua occipitalis (Western Bluetongue)			
1171.	25519	Tiliqua rugosa			
1172.	25204	Tiliqua rugosa subsp. aspera			
1173.		Tiliqua rugosa subsp. rugosa			
1174.	24983	Underwoodisaurus milii (Barking Gecko)			
1175.		Varanus gouldii (Bungarra or Sand Monitor)			
1176.	25526	Varanus tristis (Racehorse Monitor)			
Slima Maula					
Slime Mould		Badhamia foliicola			
1177.	309/6	Dauriania ivilivua			

1177.	38976	Badhamia foliicola
1178.	39097	Trichia decipiens

Conservation Codes

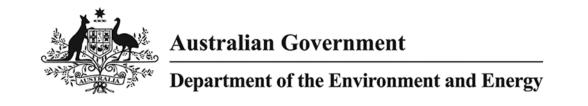
7 - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 2
4 - Priority 5





¹ 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: 06/08/20 13:43:19

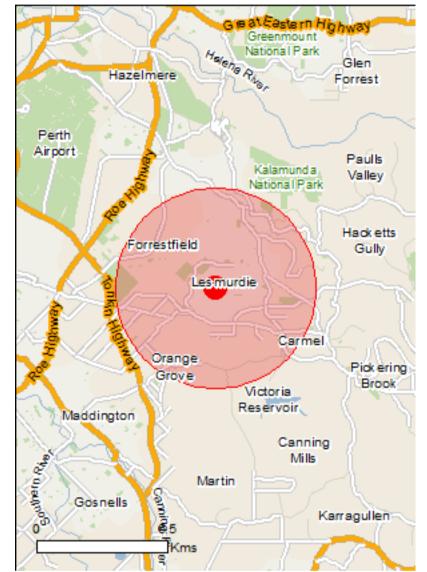
Summary

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

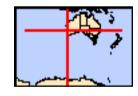
Caveat

<u>Acknowledgements</u>



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Coordinates
Buffer: 5.0Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the <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:	3
Listed Threatened Species:	39
Listed Migratory Species:	9

Other Matters Protected by the EPBC Act

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

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

A <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:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	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:	5
Regional Forest Agreements:	1
Invasive Species:	42
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

For threatened ecological communities where the distriplans, State vegetation maps, remote sensing imagery community distributions are less well known, existing vegetation produce indicative distribution maps.	and other sources. Where	threatened ecological
Name	Status	Type of Presence
Banksia Woodlands of the Swan Coastal Plain	Endangered	Community likely to occur
ecological community Clay Pans of the Swan Coastal Plain	Critically Endangered	within area Community likely to occur within area
Tuart (Eucalyptus gomphocephala) Woodlands and Forests of the Swan Coastal Plain ecological community	Critically Endangered	Community may occur within area
Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat may occur within area
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 likely to 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 [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

[Resource Information]

Name	Status	Type of Presence
Pseudocheirus occidentalis		habitat known to occur within area
Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat may occur within area
Setonix brachyurus Quokka [229]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Acacia anomala Grass Wattle, Chittering Grass Wattle [8153]	Vulnerable	Species or species habitat known to occur within area
Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat may occur within area
Anthocercis gracilis Slender Tailflower [11103]	Vulnerable	Species or species habitat known to occur within area
Austrostipa bronwenae [87808]	Endangered	Species or species habitat may occur within area
Banksia mimica Summer Honeypot [82765]	Endangered	Species or species habitat likely to occur within area
Calytrix breviseta subsp. breviseta Swamp Starflower [23879]	Endangered	Species or species habitat likely to occur within area
Chamelaucium sp. Gingin (N.G.Marchant 6) Gingin Wax [88881]	Endangered	Species or species habitat may occur within area
Conospermum undulatum Wavy-leaved Smokebush [24435]	Vulnerable	Species or species habitat likely to occur within area
Darwinia apiculata Scarp Darwinia [8763]	Endangered	Species or species habitat known to occur within area
<u>Diplolaena andrewsii</u> [6601]	Endangered	Species or species habitat likely to occur within area
Diuris drummondii Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat known to occur within area
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area
Diuris purdiei Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area
Drakaea elastica Glossy-leafed Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area
<u>Drakaea micrantha</u> Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat may occur within area
Eleocharis keigheryi Keighery's Eleocharis [64893]	Vulnerable	Species or species

Name	Status	Type of Presence habitat likely to occur within area
Eremophila glabra subsp. chlorella [84927]	Endangered	Species or species habitat likely to occur within area
Eucalyptus x balanites Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat may occur within area
Goodenia arthrotricha [12448]	Endangered	Species or species habitat likely to occur within area
Grevillea curviloba subsp. incurva Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat may occur within area
Grevillea thelemanniana Spider Net Grevillea [32835]	Critically Endangered	Species or species habitat likely to occur within area
Lasiopetalum pterocarpum Wing-fruited Lasiopetalum [64922]	Endangered	Species or species habitat may occur within area
Lepidosperma rostratum Beaked Lepidosperma [14152]	Endangered	Species or species habitat likely to occur within area
Macarthuria keigheryi Keighery's Macarthuria [64930]	Endangered	Species or species habitat likely to occur within area
Synaphea sp. Fairbridge Farm (D. Papenfus 696) Selena's Synaphea [82881]	Critically Endangered	Species or species habitat likely to occur within area
Thelymitra dedmaniarum Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat likely to occur within area
Thelymitra stellata Star Sun-orchid [7060]	Endangered	Species or species habitat known to occur within area
Listed Migratory Species		[Resource Information]
 * Species is listed under a different scientific name or 	n the EPBC Act - Threatened	d Species list.
Name	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
Calidris acuminata		likely to occur within area
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

Name	Threatened	Type of Presence
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 likely to occur within area
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land	[Resource Information]
Commonwealth Land	I Nesource information

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

·		
Name		
Commonwealth Land -		
Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on	the EPBC Act - Threatened	
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat likely to 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 likely to occur within area

Merops ornatus

Rainbow Bee-eater [670] Species or species habitat

may occur within

Name	Threatened	Type of Presence
Motacilla cinerea		area
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 likely to occur within area
Rostratula benghalensis (sensu lato)		
Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Kalamunda	WA
Korung	WA
Lesmurdie Falls	WA
Unnamed WA23076	WA
Unnamed WA24657	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.

Landscape Health Project, National Land and	l Water Resouces Audit, 200	01.
Name	Status	Type of Presence
Birds		
Acridotheres tristis		
Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos		
Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis		
European Goldfinch [403]		Species or species habitat likely to occur within area
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [8	303]	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

Name	Status	Type of Presence
Streptopelia chinensis		
Spotted Turtle-Dove [780]		Species or species habitat
-passage - and - to -to -		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
common croming [coo]		likely to occur within area
Turdus merula		
Common Blackbird, Eurasian Blackbird [596]		Species or species habitat
		likely to occur within area
Mammals		
Bos taurus		
Domestic Cattle [16]		Species or species habitat
		likely to occur within area
Opinia kunus familiania		
Canis lupus familiaris		Charles or appairs babitat
Domestic Dog [82654]		Species or species habitat likely to occur within area
		incly to occur within area
Capra hircus		
Goat [2]		Species or species habitat
		likely to occur within area
Folio cotuo		
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat
Cat, House Cat, Domestic Cat [19]		likely to occur within area
		intery 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		Species or species habitat
[129]		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
Dettus marriedisce		
Rattus norvegicus		On a sing on an arian babitat
Brown Rat, Norway Rat [83]		Species or species habitat likely to occur within area
		intory to occur within alea
Rattus rattus		
Black Rat, Ship Rat [84]		Species or species habitat
		likely to occur within area
Sus scrofa		
Pig [6]		Species or species habitat
i ig [o]		likely to occur within area
		,
Vulpes vulpes		
Red Fox, Fox [18]		Species or species habitat
		likely to occur within area
Plants		
Anredera cordifolia		
Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine,		Species or species habitat
Anredera, Gulf Madeiravine, Heartleaf Madeiravine,		likely to occur within area
Potato Vine [2643]		
Asparagus asparagoides Bridal Crooper Bridal Veil Crooper Smiley Florist's		Charles or angeles habitet
Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur
ari,ariaguo [22 170]		

Name	Status	Type of Presence
		within area
Brachiaria mutica Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466]		Species or species habitat likely to occur within area
Genista linifolia Flax-leaved Broom, Mediterranean Broom, Flax Broon [2800]	٦	Species or species habitat likely to occur within area
Genista monspessulana Montpellier Broom, Cape Broom, Canary Broom, Common Broom, French Broom, Soft Broom [20126]		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
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Sagittaria platyphylla Delta Arrowhead, Arrowhead, Slender Arrowhead [68483]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]	reichardtii	Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Tamarix aphylla Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018] Reptiles		Species or species habitat likely to occur within area
Hemidactylus frenatus Asian House Gecko [1708]		Species or species

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 gualifications below and may need to seek and consider other information sources.

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-32.00167 116.04435

Acknowledgements

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

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

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

Please feel free to provide feedback via the Contact Us page.

Appendix 3: Conservation Codes

Conservation codes are used to describe the status of species and ecological communities that are no longer common and under threat of extinction. Species and communities can be listed under state legislation and/or commonwealth legislation.

Western Australia

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

Code	Name	Description
Р	Priority Species	Possibly threatened species that do not meet survey criteria, or are
		otherwise data deficient, are added to the Priority Fauna or
		Priority Flora Lists under Priorities 1, 2 or 3. These three categories
		are ranked in order of priority for survey and evaluation of
		conservation status so that consideration can be given to their
		declaration as threatened fauna or flora. Species that are
		adequately known, are rare but not threatened, or meet criteria
		for near threatened, or that have been recently removed from the
		threatened species or other specially protected fauna lists for
		other than taxonomic reasons, are placed in Priority 4. These
		species require regular monitoring.
P1	Priority One	Poorly known species – Species that are known from one or a few
		locations (generally five or less) which are potentially at risk. All
		occurrences are either very small or on lands not managed for
		conservation, such as road verges, urban areas, farmland, active
		mineral lease and under threat of habitat destruction or
		degradation.
2	Priority Two	Poorly known species – Species that are known from one or a few
		locations (generally five or less), some of which are on lands
		managed primarily for nature conservation, such as national parks,
		conservation parks, nature reserves, State forest, vacant Crown
		land, water reserves and similar.
3	Priority Three	Poorly known species – Species that are known from several
		locations, and the species does not appear to be under imminent
		threat, or from few but widespread locations with either large
		population size or significant remaining areas of apparently
		suitable habitat, much of it not under imminent threat
4	Priority Four	Rare or near threatened and other species in need of monitoring.

(Source: Department of Biodiversity, Conservation and Attractions, 2019)

Commonwealth

Category	Description
Critically Endangered	Species facing an extremely high risk of extinction in the wild in the
Endangered	immediate future Species facing a very high risk of extinction in the wild in the near future
Vulnerable	Species facing a high risk of extinction in the wild in the medium term

(Source: Department of Agriculture, Water, and the Environment, 2020a)

Appendix 4: Species List

Below is the complete list of flora species recorded during the 2020 survey of Ray Owen Reserve. The list is sorted by species with weeds listed, then natives species and * denotes introduced species.

Family	Scientific Name	Common Name
Fabaceae	*Acacia iteaphylla	Flinders Range Wattle
Fabaceae	*Acacia longifolia	Sydney Golden Wattle
Fabaceae	*Acacia podalyriifolia	
Fabaceae	*Acacia pycnantha	Golden Wattle
Bignoniaceae	*Campsis radicans	Trumpet Vine
Fabaceae	*Chamaecytisus palmensis	Tagasaste
Myrtaceae	*Corymbia citriodora	Lemon-scented Gum
Asteraceae	*Cotula turbinata	Funnel Weed
Poaceae	*Ehrharta calycina	Perennial veldt grass
Poaceae	*Ehrharta longifolia	
Poaceae	*Eragrostis curvula	African Lovegrass
Myrtaceae	*Eucalyptus petiolaris	
Iridaceae	*Freesia alba x leichtlinii	
Fabaceae	*Genista linifolia	Flaxleaf Broom
Iridaceae	*Gladiolus caryophyllaceus	Wild Gladiolus
Asteraceae	*Hypochaeris radicata	Flat weed
Lamiaceae	*Lavandula stoechas	Lavender
Fabaceae	*Lupinus angustifolius	Narrowleaf Lupin
Myrtaceae	*Melaleuca nesophila	
Asteraceae	*Monoculus monstrosus	
Asteraceae	*Osteospermum ecklonis	
Fabaceae	*Podalyria sericea	
Polygalaceae	*Polygala myrtifolia	Myrtleleaf Milkwort
Iridaceae	*Romulea rosea	
Asteraceae	*Sonchus oleraceus	Common Sowthistle
Poaceae	*Tribolium uniolae	
Asteraceae	*Ursinia anthemoides	Ursinia
Fabaceae	Acacia applanata	
Fabaceae	Acacia barbinervis subsp. barbinervis	
Fabaceae	Acacia celastrifolia	Glowing Wattle
Fabaceae	Acacia extensa	Wiry Wattle
Fabaceae	Acacia pulchella var. pulchella	
Casuarinaceae	Allocasuarina fraseriana	Sheoak
Poaceae	Amphipogon amphipogonoides	
Ericaceae	Andersonia lehmanniana	
Myrtaceae	Babingtonia camphorosmae	Camphor Myrtle
Proteaceae	Banksia dallanneyi	Couch Honeypot
Proteaceae	Banksia sessilis var. sessilis	

Family	Scientific Name	Common Name
Pittosporaceae	Billardiera fraseri	Elegant Pronaya
Fabaceae	Bossiaea aquifolium	Water Bush
Fabaceae	Bossiaea ornata	Broad Leaved Brown Pea
Poaceae	Briza maxima	Blowfly Grass
Colchicaceae	Burchardia congesta	
Orchidaceae	Caladenia flava	Cowslip Orchid
		Lesser Bottlebrush (not naturally
Myrtaceae	Callistemon phoeniceus	occurring)
Myrtaceae	Calothamnus sanguineus	Silky-leaved Blood flower
Xanthorrhoeaceae	Chamaescilla versicolor	
Haemodoraceae	Conostylis setigera	Bristly Cottonhead
Haemodoraceae	Conostylis setosa	White Cottonhead
Myrtaceae	Corymbia calophylla	Marri
Orchidaceae	Cyanicula sericea	
Goodeniaceae	Dampiera alata	Winged-stem Dampiera
Restionaceae	Desmocladus fasciculatus	
Hemerocallidaceae	Dianella revoluta var. divaricata	Flax Lily
Orchidaceae	Diuris brumalis	
Droseraceae	Drosera erthrorhiza	Red Ink Sundew
Droseraceae	Drosera glanduligera	Pimpernel Sundew
Droseraceae	Drosera stolonifera	Leafy Sundew
Orchidaceae	Eriochilus sp.	Bunny Orchid
Myrtaceae	Eucalyptus accedens	Powderbark Wandoo
Myrtaceae	Eucalyptus camaldulensis	Rivergum
Myrtaceae	Eucalyptus marginata	Jarrah
Fabaceae	Gompholobium knightianum	
Fabaceae	Gompholobium preissii	
Fabaceae	Gompholobium tomentosum	Hairy Yellow Pea
Haloragaceae	Gonocarpus pithyoides	
Proteaceae	Grevillea synapheae	Catkin Grevillea
Proteaceae	Grevillea wilsonii	Native Fuchsia
Haemodoraceae	Haemodorum laxum	
Proteaceae	Hakea amplexicaulis	Prickly Hakea
Proteaceae	Hakea stenocarpa	Narrow-fruited Hakea
Proteaceae	Hakea trifurcata	Two-leaf Hakea
Fabaceae	Hardenbergia comptoniana	Native Wisteria
Lamiaceae	Hemiandra pungens	Snakebush
Dilleniaceae	Hibbertia hypericoides	Yellow Buttercups
Fabaceae	Hovea chorizemifolia	Holly-leaved Hovea
Fabaceae	Hovea pungens	Devil's Pins
Fabaceae	Hovea trisperma	Common Hovea
Fabaceae	Hovea trisperma var. grandiflora	

Family	Scientific Name	Common Name
	Hybanthus floribundus subsp.	
Violaceae	floribundus	
Myrtaceae	Hypocalymma robustum	Swan River Myrtle
Fabaceae	Kennedia prostrata	Scarlet Runner
Myrtaceae	Kunzea baxteri	Baxter's Kunzea (planted)
Fabaceae	Labichea punctata	Lance-leaved Cassia
Asparagaceae	Laxmannia sessiliflora subsp. australis	
Asparagaceae	Laxmannia squarrosa	
Goodeniaceae	Lechenaultia biloba	Blue Leschenaultia
Cyperaceae	Lepidosperma pubisquameum	
Cyperaceae	Lepidosperma squamatum	
Myrtaceae	Leptospermum erubescens	Roadside Teatree
Ericaceae	Leucopogon capitellatus	
Asparagaceae	Lomandra micrantha	Small-flower Mat-rush
Asparagaceae	Lomandra nigricans	
Asparagaceae	Lomandra sericea	Silky Mat Rush
Fabaceae	Medicago polymorpha	Burr Medic
Poaceae	Neurachne alopecuroidea	Foxtail Mulga Grass
Rubiaceae	Opercularia hispidula	
Iridaceae	Orthrosanthus laxus	Morning Iris
Oxalidaceae	Oxalis pes-caprae	Soursob
Iridaceae	Patersonia juncea	Rush Leaved Patersonia
Proteaceae	Petrophile striata	
Rutaceae	Philotheca spicata	Pepper and Salt
Plantaginaceae	Plantago lanceolata	Ribwort Plantain
Orchidaceae	Pterostylis recurva	
Orchidaceae	Pterostylis sanguinea	
Orchidaceae	Pyrorchis nigricans	Red beaks
Santalaceae	Santalum acuminatum	Quandong
Goodeniaceae	Scaevola pilosa	Hairy Fan-flower (planted)
Stylidiaceae	Stylidium affine	Queen Triggerplant
Stylidiaceae	Stylidium ciliatum	Golden Triggerplant
Stylidiaceae	Stylidium schoenoides	Cow Kicks
Stylidiaceae	Stylidium striatum	
Orchidaceae	Thelymitra crinita	Blue Lady Orchid
Orchidaceae	Thelymitra macrophylla	
Malvaceae	Thomasia foliosa	
Asparagaceae	Thysanotus sp. (climber)	
Asparagaceae	Thysanotus sparteus	
Araliaceae	Trachymene pilosa	Native Parsnip
Asteraceae	Trichocline spathulata	Native Gerbera
Hemerocallidaceae	Tricoryne tenella	
Rhamnaceae	Trymalium ledifolium	

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Family	Scientific Name	Common Name
Xanthorrhoeaceae	Xanthorrhoea brunonis	
Xanthorrhoeaceae	Xanthorrhoea preissii	
Apiaceae	Xanthosia candida	