Appendix F – Flora and Fauna Survey (Feb. 2019)

Proposed
Motorsport Park
Lot 5780 Down
Road, Drome WA
6330

Reconnaissance Flora and Level 1 Fauna Survey Report





Bio Diverse Solutions FINAL V1 07/02/2019



DOCUMENT CONTROL

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1. Introduction, scope and background information

The City of Albany ("the client") commissioned Bio Diverse Solutions as Environmental Consultants to undertake a Reconnaissance Flora and Level 1 Fauna Survey within Lot 5780 Down Road, Drome WA. The scope of works included:

- Desktop assessment including all publicly available database searches and Parks and Wildlife database searches (provided by CoA);
- A Reconnaissance Flora Survey across the survey area through relevé sampling in vegetation types present, and mapping the boundaries of vegetation types;
- A Level 1 Fauna Survey across the survey area through low intensity sampling, reconnaissance surveys, and the identification, mapping and description of habitat types;
- Individual tree surveys throughout the survey area to identify breeding / nesting hollows and potential
 habitat trees, particularly for threatened fauna dependent on hollows, such as: the western ringtail
 possum, three species of threatened black cockatoos and two species of priority listed owls. GPS mark
 and measure every tree >500mm DBH (Significant trees) and compile excel data spreadsheet. Survey
 will be undertaken of every significant tree within 100m of the development footprint and within the
 proposed survey area;
- GIS mapping of: vegetation communities (including relevé locations), vegetation condition mapping according to the Keighery condition rating scale (Keighery 1994, Table 2), fauna habitat types and condition within the survey area;
- Preparation of Reconnaissance Flora and Level 1 Fauna and Vegetation Report, which will be aligned with the appropriate government agency legislation and guidelines.

Flora assessment was undertaken by Botanist Ellen Hickman on the 31st October and 1st November 2018. Fauna assessment was undertaken by Wildlife Ecologist Dr. Karlene Bain and Conservation and Wildlife Biologist Bianca Theyer (Bio Diverse Solutions) between the 29th of October and the 2nd November 2018.

1.1. Site location and Development Proposal

The "survey area" is defined as Lot 5780 Down Road and the adjacent roadside reserves situated along the northern and eastern cadastral boundaries of the lot. This site is the location of the proposed Motorsport Park, refer to current "Concept Plan' Appendix A. Refer to Figure 1 and Appendix A – Survey Area.



Figure 1: Survey Area Locality



The survey area is based upon the likelihood of disturbance through the Motorsport Park development process. These areas included the western precinct (remnant vegetation to the west) that is unlikely to be developed, the southern central precinct (creek / drainage line and surrounding vegetation), road reserves (located along the northern and eastern boundaries of the lot), and cleared / grazed paddock areas (internal to the subject site including stands of native trees).

1.2. Geology and soils

Database searches using the NRInfo Portal (Department of Primary Industries and Regional Development, 2018) shows the subject site lies within the King (242Kg) and Redmond (242Re) Systems and the Albany Sandplain Zone(242). The King System is described as "Dissected siltstone and sandstone terrain, on the southern edge of the Albany Sandplain Zone, with shallow gravel, sandy gravel, grey sandy duplex and pale deep sand. Jarrahmarri-Sheoak woodland and Mallee-heath" (DPIRD, 2018). The Redmond System is described as "Undulating plateau with scattered depressions, in the east of the Albany Sandplain Zone. Sandy gravel, pale deep sand, nonsaline wet soils and grey sandy duplex. Marri-jarrah forest, swamp yate-paperbark-sheoak woodland and heath" (DPIRD, 2018). The Albany Sandplain Zone is described as having "Gently undulating plain dissected by a number of short rivers flowing south. Eocene marine sediments overlying Proterozoic granitic and metamorphic rocks. Soils are sandy duplex soils, often alkaline and sodic, with some sands and gravels." (DPIRD, 2018).

1.3. Climate

The Albany area is characterised by a Mediterranean climate with mild wet winters and mild to hot dry summers. The average annual temperature in Albany ranges from 11.8 – 19.5°C. The average summer temperature range between 14-22.9°C, whilst average winter temperatures range between 8.2-15.8°C. The annual mean rainfall for Albany is 927.1mm (BOM, 2019).

1.4. Water

The survey area lies within a Priority Two (P2) Public Drinking Water Source Area (WALGA, 2018a) and also partially contains the Marbellup Flats along the southern boundary which is a South Coast Significant Wetland (WALGA 2018b).

1.5. Existing Land use

The "survey area" is currently used for grazing cattle and for sand extraction purposes. There is also a stockpile area located in the north western corner of the property with wood chips and other materials stored here. Refer to Figure 2.



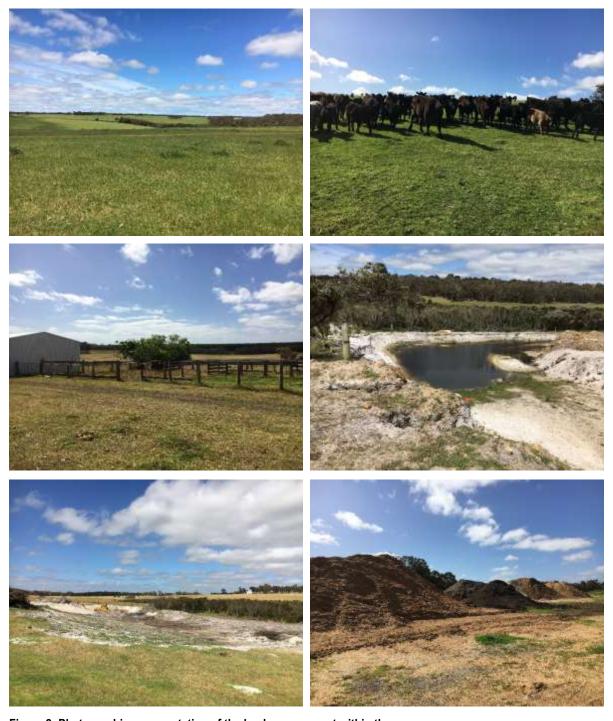


Figure 2: Photographic representation of the land uses present within the survey area.



2. Desktop Flora and Vegetation Values

2.1. Remnant Vegetation

The Survey area lies within the Jarrah Forest IBRA bioregion. Hearn *et al* (2002) describes the bioregion as; 'Duricrusted plateau of Yilgarn Craton characterised by Jarrah-Marri forest on laterite gravels and, in the eastern part, by Wandoo - Marri woodlands on clayey soils. Eluvial and alluvial deposits support Agonis shrublands. In areas of Mesozoic sediments, Jarrah forests occur in a mosaic with a variety of species-rich shrublands.'

The vegetation has been mapped on a broad scale by J.S. Beard (Shepherd *et al.* 2002) in the 1970's, where a system was devised for state-wide mapping and vegetation classification based on geographic, geological, soil, climate structure, life form and vegetation characteristics (Sandiford and Barrett, 2010). Vegetation units were regarded as associations and were grouped into Vegetation Systems representing a particular pattern of association distribution within a given area. A GIS search of J.S. Beards (DEC, 2005) vegetation classification places the survey area within two System and Vegetation Associations (Source DEC Pre-European Vegetation GIS dataset, 2005):

- System Association Name: Albany
- Vegetation Association Number: 51
- Vegetation Description: Cyperaceae, Restionaceae, Juncaceae (mainly in the South-West).
- System Association Name: Albany
- Vegetation Association Number: 978
- Vegetation Description: Jarrah, Banksia or Casuarina Eucalyptus marginata, Banksia spp., Allocasuarina spp.

2.2. Albany Regional Vegetation Survey (ARVS)

The Albany Regional Vegetation Survey (ARVS) undertaken by Sandiford and Barret in 2010 identified the vegetation within the survey area as belonging to the Jarrah/Marri/Sheoak Laterite Forest (12), Jarrah/Sheoak/*E. staeri* Sandy Woodland (13), and *Homalospermum firmum / Callistemon glaucus* Peat Thicket (47) unit.

2.3. Survey Methods

Desktop inventory of potential threatened flora species likely to occur within 15km of the survey area was undertaken using the following databases:

- Database results provided by the City of Albany;
- Nature Map Database Search (combined data from DBCA, WA Museum and WA Herbarium);
- Protected matters search tool (DoE 2017a); and
- WA Herbarium records accessed through Flora Base (Western Australian Herbarium, DPaW).

The full species list compiled from all available data (Appendix B) is based on observations from a broader area than the survey area and is likely to include species that would not occur in the actual survey area due to a lack of suitable habitat. The data also includes very old records and in some cases the species in question may have become locally or regionally extinct.

The conservation significance of flora species has been assessed using data from the following sources:

- Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act). Administered by the Australian Government Department of the Environment (DoE);
- Wildlife Conservation Act 1950 (WC Act). Administered by the Western Australian Department of Parks and Wildlife (DPaW); and
- DBCA Priority Flora list. A non-legislative list maintained by DBCA's Parks and Wildlife Service for management purposes.

Bio Diverse Solutions undertook the reconnaissance flora and vegetation survey between the 31st October and 1st November 2018 EPA Guidance Statement 51: *Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia* (EPA 2016). The area was surveyed using transects and traversed on foot. Along each transect, relevés were systematically surveyed within representative vegetation types to enable analysis and categorisation across the wider area. The flora was systematically recorded within the relevés and collections of plant specimens were made where further identification was required. For species that were not flowering and



where foliage or nuts / fruit couldn't be used for identification, potential habitat was used as an indication of the likelihood of species occurrence. The vegetation communities occurring within the survey area were mapped and described in detail using opportunistic mapping and relevé based surveys. Vegetation units were described based on structure, dominant taxa and cover characteristics as defined by relevé data and field observations.

A reconnaissance survey was deemed appropriate as the aim of this survey was to provide context and gather broader knowledge of the survey area. This type of survey aims to verify the desktop information obtained, and to characterise the flora / vegetation units present within the survey area. The targeted component of the flora survey aimed at identifying any potential threatened or priority species and communities within the survey area.

2.4. Threatened Flora

As a result of the above-mentioned database searches 17 DRF, 41 Priority and 1 Presumed Extinct species were identified as potentially being present within the survey area.

2.5. Threatened Ecological Communities

Database results also indicate that two Threatened Ecological Communities may be present within the survey area these being: Subtropical and Temperate Coastal Saltmarsh and Proteaceae Dominated Kwongkan Shrublands of the Southeast Coastal Floristic Province of Western Australia.

2.5.1. Subtropical and Temperate Coastal Saltmarsh

Consists of the assemblage of plants, animals and micro-organisms associated with saltmarsh in coastal regions of sub-tropical and temperate Australia (south of 23°S latitude). The habitat is located in coastal areas under tidal influence. In southern latitudes saltmarsh are the dominant habitat in the intertidal zone and often occur in association with estuaries. It is typically restricted to the upper intertidal environment, generally between the elevation of the mean high tide, and the mean spring tide. The community consists mainly of salt-tolerant vegetation (halophytes) including: grasses, herbs, reeds, sedges and shrubs. Succulent herbs and grasses generally dominate and vegetation is generally <0.5m tall with the exception of some reeds and sedges. Many species of non-vascular plants are also found in saltmarsh, including epiphytic algae, diatoms and cyanobacterial mats. Saltmarsh consists of many vascular plant species but is dominated by relatively few families. There is also typically a high degree of endemism at the species level. The two most widely represented coastal saltmarsh plant families are the Chenopodiaceae and Poaceae. Four structural saltmarsh forms are currently recognised based on dominance of a particular vegetation type:

- dominance by succulent shrubs (e.g. Tecticornia)
- dominance by grasses (e.g. Sporobolus virginicus)
- dominance by sedges and grasses (e.g. Juncus kraussii, Gahnia trifida)
- dominance by herbs (e.g. low-growing creeping plants such as *Wilsonia backhousei, Samolus repens, Schoenus nitens*) (DBCA, 2017a).

2.5.2. The Proteaceae Dominated Kwongkan Shrublands of the Southeast Coastal Floristic Province of Western Australia

The Proteaceae Dominated Kwongkan Shrublands of the Southeast Coastal Floristic Province of Western Australia is generally kwongkan / kwongan shrubland, ranging from sparse to dense, thicket-forming, where Proteaceaeous species form a significant component. It is confined to the southeast botanical province of Western Australia (sensu Hopper and Gioia, 2004) and primarily occurs on sandplains and marine plains and lower to upper slopes and ridges, as well as uplands across this region (Department of the Environment, 2014).



2.6. Survey Limitations and constraints

Experience of personnel

Dr Ellen Hickman has over 18 years' experience as a botanist, of particular note is her work as the Rare Flora Officer in the South Coast for the then named Department of Environment and Conservation (DEC).

Availability of local / regional contextual information

Vegetation types present within the local and regional area are well documented through the Albany Regional Vegetation Survey (ARVS). Detailed site-specific information is limited as it is privately owned land this is not considered a limiting factor for this survey.

Proportion of flora recorded and/or collected, and identification issues

The single season vegetation and flora survey was undertaken in November 2018 (Spring) with the targeted flora survey completed at the same time. Spring is considered the optimal time for undertake vegetation and flora surveys within the South-west region. The proportion of flora identified is considered high.

Survey effort and extent

Vegetation throughout the survey area was traversed by foot with opportunistic sampling and relevés utilised to classify the flora and vegetation present. The survey intensity was deemed appropriate for this stage of development.

Disturbances (e.g. fire or flood)

A section of the western vegetation block had been recently burnt, however vegetation types were still able to be established based on regenerating and existing flora present. This is not deemed to have affected the completeness of the survey.

Survey timing / season and, rainfall

As per the EPA Guidelines the survey was undertaken in Spring. The Albany area has seen a lower than average rainfall year, however this is not deemed to be a limiting factor for this survey.

Remoteness or access issues

No restrictions were encountered. All areas were accessible by vehicle and on foot.



3. Flora and vegetation survey outcomes

During the field survey 141 species, consisting of 41 families and 105 genera were found. The most common families were Fabaceae, Proteaceae, Myrtaceae, Poaceae and Cyperaceae. This list includes 123 native species (Table 1) and 18 introduced species (denoted with an *). No priority species were identified. The broadscale vegetation units are described in Section 3.1. with species identified within them outlined in Table 1 below (indicated by an **X**). Refer to Figure 9 for vegetation unit mapping. Relevé datasheets are presented in Appendix C.

Table 1: Flora species recorded within survey area.

F 1	0.00	0	0	Vegetation Type		уре	е		
Family	Genus	Species	Common Name	1	2	3	4	5	6
Anarthriaceae	Anarthria	prolifera		Х	Х				
Anarthriaceae	Anarthria	scabra			Х				
Anarthriaceae	Lyginia	barbata			Х				
Apiaceae	Actinotus	glomeratus			Х				
Apiaceae	Platysace	pendula			Х				
Apiaceae	Xanthosia	rotundifolia	Southern Cross	Х	Х				
Asparagaceae	Laxmannia	jamesii	James's Paperlily		Х				
Asparagaceae	Lomandra	sonderi		Х					
Asparagaceae	Thysanotus	tenellus		Х					
Asteraceae	Hypochaeris	radicata	Flat Weed*		Х				X
Campanulaceae	Lobelia	tenuior	Slender Lobelia		Х				
Casuarinaceae	Allocasuarina	fraseriana	Sheoak	Х	Х				
Centrolepidaceae	Centrolepis	strigosa	Hairy Centrolepis		Х				
Colchicaceae	Burchardia	congesta		Х	Х				
Cyatheaceae	Cyathea	cooperi	Tree Fern*				Х		
Cyperaceae	Baumea	preissii						Х	
Cyperaceae	Cyathochaeta	avenacea		Х					
Cyperaceae	Cyathochaeta	equitans			Х				
Cyperaceae	Gahnia	decomposita						Х	
Cyperaceae	Gymnoschoenus	anceps				Х			
Cyperaceae	Lepidosperma	squamatum		Х					
Cyperaceae	Mesomelaena	tetragona	Semaphore Sedge	Х					
Cyperaceae	Tetraria	octandra		Х					
Dasypogonaceae	Dasypogon	bromeliifolius	Pineapple Bush	Х	Х				
Dasypogonaceae	Kingia	australis	Kingia	Х					
Dennstaedtiaceae	Histiopteris	incisa	Bat's wing Fern					Х	
Dennstaedtiaceae	Pteridium	esculentum	Bracken	Х	Х				
Dilleniaceae	Hibbertia	cunninghamii		Х					
Dilleniaceae	Hibbertia	pilosa	Hairy Guinea Flower		Х				
Droseraceae	Drosera	macrantha	Bridal Rainbow	Х					
Droseraceae	Drosera	menziesii	Pink Rainbow			Х	Х		
Elaeocarpaceae	Tetratheca	affinis			Х				
Ericaceae	Brachyloma	baxteri			Х				



Table 1 continued.

Family	Genus	Species	Common Name		Veç	getat	ion T	ype	
raillily	Genus	Species	Common Name	1	2	3	4	5	6
Ericaceae	Leucopogon	distans			Х				
Ericaceae	Leucopogon	verticillata	Tassel Flower	Х					
Fabaceae	Acacia	baileyana	Cootamundra Wattle*	Х					
Fabaceae	Acacia	hastulata				Х			
Fabaceae	Acacia	longifolia	Sydney Wattle*	Х					
Fabaceae	Acacia	myrtifolia		Х					
Fabaceae	Bossiaea	linophylla		X					
Fabaceae	Bossiaea	ornata	Broad Leaved Brown Pea		Х				
Fabaceae	Bossiaea	rufa			X				
Fabaceae	Daviesia	aphylla			Х				
Fabaceae	Daviesia	flexuosa		Х					
Fabaceae	Gompholobium	knightianum			Х				
Fabaceae	Gompholobium	ovatum		Х					
Fabaceae	Gompholobium	polymorphum		Х					
Fabaceae	Gompholobium	scabrum			Х				
Fabaceae	Hovea	chorizemifolia	Holly-leaved Hovea	Х					
Fabaceae	Jacksonia	spinosa			Х				
Fabaceae	Kennedia	coccinea	Coral Vine		Х				
Fabaceae	Latrobea	genistoides			Х				
Fabaceae	Ornithopus	compressus	Yellow Serradella*					Х	
Fabaceae	Psoralea	pinnata	African Scurfpea*		Х	Х	Х		
Fabaceae	Pultenaea	reticulata	,		Х				
Fabaceae	Sphaerolobium	hygrophilum				Х		Х	
Fabaceae	Sphaerolobium	fornicatum				Х		Х	
Fabaceae	Sphaerolobium	rostratum (albino form)				Х		Х	
Fabaceae	Trifolium	glomeratum	Cluster Clover*					Х	Х
Goodeniaceae	Dampiera	leptoclada	Slender-shooted Dampiera			Х			
Goodeniaceae	Dampiera	pedunculata		Х	Х				
Goodeniaceae	Scaevola	striata	Royal Robe	X					
Haemodoraceae	Anigozanthos	preissii	Albany Catspaw		Х				
Haemodoraceae	Conostylis	setigera	Bristle Cottonhead	Х					
Haemodoraceae	Haemodorum	spicatum	Mardja		Х				
Haemodoraceae	Phlebocarya	ciliata			Х				
Hemerocallidaceae	Agrostocrinum	scabrum	Blue Grass Lily		Х				
Hemerocallidaceae	Johnsonia	lupulina	Hooded Lily	Х					
Iridaceae	Patersonia	babianoides		Х					
Iridaceae	Patersonia	occidentalis	Purple Flag	Х					
Iridaceae	Watsonia	meriana var. bulbillifera	Bugle Lily*		Х				



Table 1 continued.

Family	Genus	Species	Common Name	Vegetation Type					
1 annly	Genus	Species	Common Name	1	2	3	4	5	(
Lentibulariaceae	Utricularia	multifida	Pink Petticoats			Х			
Lentibulariaceae	Utricularia	volubilis	Twining Bladderwort			Х			
Lindsaeaceae	Lindsaea	linearis	Screw Fern	Х					
Loganiaceae	Orianthera	serpyllifolia		Х					
Loganiaceae	Phyllangium	paradoxum			Х				
Loranthaceae	Nuytsia	floribunda	Christmas Tree		Х				
Myrtaceae	Agonis	theiformis		Х					
Myrtaceae	Beaufortia	decussata	Gravel Bottlebrush	Х					
Myrtaceae	Callistemon	glaucus	Albany Bottlebrush			Х	Х	Х	
Myrtaceae	Corymbia	calophylla	Marri	Х					
Myrtaceae	Eucalyptus	marginata	Jarrah	Х	Х				
Myrtaceae	Eucalyptus	staeri	Albany Blackbutt		Х				
Myrtaceae	Homalospermum	firmum				Х	Х	Χ	
Myrtaceae	Hypocalymma	robustum	Swan River Myrtle		Х				
Myrtaceae	Kunzea	sulphurea	,	Х					
Myrtaceae	Melaleuca	preissiana	Moonah				Х		
Myrtaceae	Melaleuca	thymoides		Х	Х				
Myrtaceae	Taxandria	linearifolia				Х			
Myrtaceae	Taxandria	parviceps		Х	Х				
Orchidaceae	Caladenia	flava	Cowslip Orchid		Х				
Orchidaceae	Gastrodia	lacista	Potato Orchid			Х			
Orchidaceae	Paracaleana	disjuncta			Х				
Orchidaceae	Thelymitra	crinita	Blue Lady Orchid	Х					
Orchidaceae	Thelymitra	mucida	Plum Orchid	Х					
Phyllanthaceae	Poranthera	microphylla	Small Poranthera		Х				
Phytolaccaceae	Phytolacca	octandra	Red Ink Plant*		Х	Х		Χ	
Poaceae	Anthoxanthum	odoratum	Sweet Vernal Grass	Х					
Poaceae	Avena	barbata	Bearded Oats*	Х					İ
Poaceae	Briza	maxima	Blowfly Grass*	Х					İ
Poaceae	Bromus	diandrus	Great Brome*	Х	Х				İ
Poaceae	Eragrostis	curvula	African Lovegrass*		Х				
Poaceae	Holcus	lanatus	Yorkshire Fog*	Х			Х	Х	İ
Poaceae	Lagurus	ovatus	Hare's Tail Grass*		Х				
Poaceae	Lolium	rigidum	Wimmera Ryegrass*		Х				2
Poaceae	Cenchrus	clandestinus	Kikuyu*	Х	Х				2
Polygalaceae	Comesperma	virgatum				Х		Х	T
Polygalaceae	Rumex	pulcher	Fiddle Dock*		Х				2
Proteaceae	Adenanthos	cuneatus	Coastal Jugflower	Х	Х				T
Proteaceae	Adenanthos	obovatus	Basket Flower		Х				T



Table 1 continued.

Family	Genus	Species	Common Name	Vegetation Type						
1 annly	Genus	Species	Common Name	1	2	3	4	5	6	
Proteaceae	Banksia	attenuata	Slender Banksia	Х	Х					
Proteaceae	Banksia	formosa	Showy Dryandra	Х						
Proteaceae	Banksia	grandis	Bull Banksia	Х						
Proteaceae	Banksia	ilicifolia	Holly-leaved Banksia		Χ					
Proteaceae	Banksia	littoralis	Swamp Banksia				Х	Χ		
Proteaceae	Banksia	quercifolia	Oak-leaved Banksia		Х					
Proteaceae	Conospermum	caeruleum	Blue Brother	Х						
Proteaceae	Hakea	amplexicaulis	Prickly Hakea	Х						
Proteaceae	Hakea	ruscifolia	Candle Hakea	X						
Proteaceae	Hakea	varia			Х					
Proteaceae	Isopogon	longifolius		Х						
Proteaceae	Persoonia	longifolia	Snottygobble	X						
Proteaceae	Petrophile	diversifolia		Х						
Restionaceae	Desmocladus	fasciculatus		Х						
Restionaceae	Empodisma	gracillimum				Х	Х	Χ		
Restionaceae	Hypolaena	exsulca			Χ					
Restionaceae	Leptocarpus	tenax	Slender Twine Rush			Х		Χ		
Restionaceae	Tremulina	tremula			Χ					
Rhamnaceae	Spyridium	globulosum	Basket Bush	Х						
Rubiaceae	Opercularia	hispidula	Hispid Stinkweed	Х						
Rutaceae	Boronia	crenulata	Aniseed Boronia	X						
Rutaceae	Boronia	molloyae	Tall Boronia					Χ		
Rutaceae	Boronia	spathulata	Boronia	Х						
Solanaceae	Solanum	laciniatum	Kangaroo Apple*	Х				X		
Stylidiaceae	Stylidium	diversifolium	Touch-me-not		Х					
Stylidiaceae	Stylidium	piliferum	Common Butterfly Triggerplant	X						
Stylidiaceae	Stylidium	schoenoides	Cow Kicks	Х						
Stylidiaceae	Stylidium	spinulosum	Topsy-turvy Triggerplant		Х					
Thymelaeaceae	Pimelea	imbricata			Х					
Xanthorrhoeaceae	Xanthorrhoea	platyphylla		Х						
Xyridaceae	Xyris	lanata						Χ		



3.1. Vegetation types

The flora and vegetation survey identified six vegetation types; Jarrah/Marri/Sheoak Laterite Forest (Vegetation Type 1) Jarrah/Sheoak/Eucalyptus staeri Sandy Woodland (Vegetation Type 2), Homalospermum firmum/Callistemon glaucus Peat Thicket (Vegetation Type 3), Melaleuca preissiena Low Woodland (Vegetation Type 4), Miscellaneous Drainage Woodland/Shrubland (Vegetation Type 5) and Open paddock / agricultural land (Vegetation Type 6), including bare and sand extraction areas. A full description is provided in the following sections.

3.1.1. Vegetation Type 1 - Jarrah/Marri/Sheoak Laterite Forest

Key defining features of this vegetation type are an overstorey of *Eucalyptus marginata* and *Allocasuarina* fraseriana. The relatively open and diverse shrub layer is dominated by *Banksia grandis*, *Agonis theiformis*, *Leucopogon verticillata*, *Xanthosia rotundifolia*, *Bossiaea linophylla*, *Nuytsia floribunda*, *Kingia australis*, *Hovea chorizemifolia*, *Taxandria parviceps* and *Xanthorrhoea platyphylla*. The sedges and herb layers are dominated by *Anarthria prolifera*, *Desmocladus fascicularis*, *Mesomelaena tetragona*, *Cyathochaeta equitans*, *Patersonia occidentalis*, *Haemodorum spicatum* and *Orianthera serpyllifolia*. The grass layer consists of introduced species such as *Briza maxima**, *Avena barbata**, *Holcus lanatus**, *Bromus diandrus**.

This vegetation type aligns with ARVS 12 and occurs within the remnant vegetation to the west and along the northern and eastern boundaries in the existing Down Road and Down Road South Road reserves (Figure 9). Please refer to Table 1 above for a full list of species identified during the survey and Figure 3 for images of this vegetation type.



Figure 3: Photographic representation of the vegetation type present within the survey area.



3.1.2. Vegetation Type 2 - Jarrah/Sheoak/Eucalyptus staeri Sandy Woodland

Key defining features of this vegetation type are an overstorey of *Eucalyptus marginata*, *Allocasuarina fraseriana*, *Eucalyptus staeri* and *Corymbia calophylla*. The relatively open and diverse shrub layer is dominated by *Banksia grandis*, *Pimelea imbricata*, *Hakea amplexicaulis*, *Leucopogon verticillata*, *Dasypogon bromeliifolius*, *Leucopogon distans*, *Boronia crenulata*, *Xanthosia rotundifolia* and *Gompholobium ovatum*. The sedges and herb layers are dominated by *Anarthria prolifera*, *Cyathochaeta equitans*, *Desmocladus fascicularis*, *Patersonia occidentalis*, *Lindsaea linearis*, *Dampiera pedunculata and Lepidosperma squamatum*. The grass layer consists of introduced species *Holcus lanatus**, *Bromus diandrus**, *Cenchrus clandestinus**, *Anthoxanthum odoratum**, *Lolium rigidum** and *Lagurus ovatus**.

This vegetation type aligns with ARVS 13 and occurs within the western remnant vegetation (western precinct), along the northern and eastern boundaries in the existing Down Road and Down Road South Road reserves, within remnant vegetation located to the north and south of the creek / drainage line (southern precinct) and in small isolated pockets throughout the paddocks (Figure 9). Please refer to Table 1 for a full list of species identified during the survey and Figure 4 for images of this vegetation type.



Figure 4: Photographic representation of the vegetation type present within the survey area.



3.1.3. Vegetation Type 3 - Homalospermum firmum/Callistemon glaucus Peat Thicket

The vegetation type is dominated by a shrub layer consisting of *Melaleuca preissiana, Callistemon glaucus, Homalospermum firmum* and *Banksia littoralis* over *Taxandria parviceps, Taxandria linearis* and *Acacia hastulata*. The sedges and herbs layers are dominated by *Empodisma gracillimum, Gymnoschoenus anceps* and *Dampiera leptoclada*. This vegetation unit aligns with ARVS 47 and occurs along the south-western boundary (recently burnt) and within the creek / drainage system located along the southern boundary (southern precinct) (Figure 9). Please refer to Table 1 for a list of species identified during the survey within this vegetation type and Figure 5 for images of this vegetation type.



Figure 5: Photographic representation of the vegetation type present within the survey area.



3.1.4. Vegetation Type 4 - Melaleuca preissiana Low Woodland

This vegetation type was dominated by a shrub layer of *Melaleuca preissiana* and *Psoralea pinnata** and occasional *Banksia littoralis* over *Taxandria linearis, Taxandria parviceps, Callistemon glaucus, Homalospermum firmum, Empodisma gracillimum* and *Holcus lanatus**. This vegetation type aligns with ARVS 49 and was found within the creek / drainage area (Figure 9). Please refer to Table 1 for a full list of species identified during the survey and Figure 6 for images of this vegetation type.



Figure 6: Photographic representation of the vegetation type present within the survey area.



3.1.5. Vegetation Type 5 - Miscellaneous Drainage Woodland/Shrubland

This vegetation type is dominated by *Taxandria linearis* and *Acacia hastulata* over *Homalospermum firmum*, *Callistemon glaucus* and *Boronia molloyae*. Dominant species in the sedge, herb and grass layer were *Drosera menziesii*, *Gahnia decomposita*, *Phytolacca octandra** and *Holcus lanatus**. This unit aligns with ARVS 50 and is located along the creek / drainage line situated between *Homalospermum firmum /Callistemon glaucus* Peat Thicket and *Melaleuca preissiana* Low Woodland vegetation types (Figure 9). Please refer to Table 1 for a full list of species identified during the survey and Figure 7 for images of this vegetation type.



Figure 7: Photographic representation of the vegetation type present within the survey area.



3.1.6. Vegetation Type 6 - Open paddock / agricultural land

This vegetation unit is situated internally throughout the survey area (Figure 9). It consists of grazed paddock areas / agricultural land. Species composition includes introduced paddock species such as *Cenchrus clandestinus* (Kikuyu), *Trifolium glomeratu* (Cluster Clover) *Hypochaeris radicata* (Flat Weed), *Lagurus ovatus* (Hare's Tail Grass), *Lolium rigidum* (Wimmera Ryegrass), *Rumex pulcher* (Fiddle Dock) and *Solanum laciniatum* (Kangaroo Apple). This unit also includes the bare areas associated with existing sand extraction operations. Please refer to Table 1 above for a full list of species identified during the survey and Figure 8 for images of this vegetation type.



Figure 8: Photographic representation of the vegetation type present within the survey area.

3.2. Extent and Conservation Significance of Vegetation Types

The vegetation types described above align with vegetation units described in the Albany Regional Vegetation Survey (ARVS) report by Sandiford and Barret (2010). This report outlines that the total remnant vegetation within the ARVS area (made up of IUCN I-IV, other Crown reserves and non-reserve areas) was 44093ha (Sandiford and Barret 2010). The local and regional extent and significance of the vegetation units is discussed below (taken from Tables 3.2 and 3.3 in Sandiford and Barret 2010).

ARVS Vegetation Unit 12

This ARVS unit aligns with Vegetation Type 1. The vegetation unit is the most common vegetation unit throughout the ARVS area with the total current extent at 13144ha (representing 29.8% of the total remnant vegetation in the ARVS survey area). Approximately 7879ha are found within non-reserve areas followed by Crown Reserves (3991.6ha) and IUCN I-IV Reserves (1273ha). Although this unit is the most widespread it may be restricted to the ARVS context / survey area, with its eastern range limit occurring +/- within 10km of the ARVS survey area boundary (Sandiford and Barret 2010). Other regional and local representation criteria are that the vegetation type contains Priority flora species. The vegetation unit does not contain specific habitats of significance such as wetland / riparian vegetation, wetlands of national significance etc. (Sandiford and Barret 2010).



ARVS Vegetation Unit 13

This ARVS unit aligns with Vegetation Type 2. This vegetation unit is the second most common unit throughout the ARVS area with the total extent being 5148ha (representing 29.8% of the total remnant vegetation in the ARVS survey area). 1936ha is found in Non-Reserve areas, 1878ha in Oter Crown Reserves and 1334 in IUCN Reserves. This unit is also potentially restricted to the ARVS context / survey area with its eastern range limit occurring +/-within 10km of the ARVS survey area boundary (Sandiford and Barret 2010). Other regional and local representation criteria are that the vegetation type contains Priority and Declared Rare Flora (DRF) species. The vegetation unit does not contain specific habitats of significance such as wetland / riparian vegetation, wetlands of national significance etc. (Sandiford and Barret 2010).

ARVS Vegetation Unit 47

This ARVS unit aligns with Vegetation Type 3. The total current extent within the ARVS unit as described by Sandiford and Barret (2010) is 2083ha, consisting of 1606ha in Non-Reserves, 263ha in IUCN Reserves and 214ha in Other Crown Reserves. This unit is not restricted nor is it near it's range limit. It does contain habitats of significance such including wetland/dampland/riparian habitats and wetlands of national significance (Sandiford and Barret 2010). This vegetation unit is associated with the Marbellup flats that extends from the southern boundary of the Down Road survey area and into surrounding areas.

ARVS Vegetation Unit 49

This ARVS unit aligns with Vegetation Type 4. The total current extent within the ARVS unit as described by Sandiford and Barret (2010) is 679ha, consisting of 476ha in Non-Reserves, 150ha in Other Crown Reserves and 53ha in IUCN Reserves. This vegetation unit has been classified as rare (<1500ha) as well being at its eastern range limit (+/- within 10km) of the ARVS survey area boundary (Sandiford and Barret 2010). Priority flora species are found within this vegetation unit as well as significant habitat (wetland/dampland/riparian habitats). At a site-specific scale (i.e Down Road survey area) the vegetation unit is associated with the Marbellup flats that extends from within the southern boundary and into surrounding areas.

ARVS Vegetation Unit 50

This ARVS unit aligns with Vegetation Type 5. The total current extent within the ARVS unit as described by Sandiford and Barret (2010) is 259ha, consisting of 161ha in Non-Reserves, 77ha in Other Crown Reserves and 21ha in IUCN Reserves. This unit is not including in Sandiford and Barret's conservation assessment (Table 3.3), however the vegetation unit is associated with the Marbellup flats that extends from within the southern boundary and into surrounding areas.





29 Hercules Crescent Albany, WA 6330

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Overview Map Scale 1:100,000



Subject Site

Cadastre

5m Contours ▲ Vegetation Releves

Vegetation Complexes

Jarrah/Sheoak/Eucalyptus staeri Sandy Woodland

Jarrah/Marri/Sheoak Laterite Forest

Homalospermum firmum/Callistemon glaucus Peat Thicket

Melaleuca preissiena Low Woodland

Open paddock / agricultural land

Miscellaneous Drainage Woodland/Shrubland



1:8,500 @ A3 GDA MGA 94 Zone 50

Data Sources
Aerial Imagery: WA Now, Landgate Subscription Imagery
Cadastre, Relief Contours and Roads: Landgate 2017
RIS Road Network: Main Roads Western Australia 2017
Overview Map: World Topographic map service, ESRI 2012

City of Albany PO Box 484 Albany, WA 6331

Vegetation Complexes Mapping

Assessor EH	QA Check KK	BT
STATUS	FILE	DATE
FINAL	MSC0137-002	06/02/2019



3.3. Vegetation Condition

The vegetation condition for the survey area has been mapped using the Keighery condition rating scale (Keighery 1994, Table 2). Vegetation in the survey area has variable condition ranging from Pristine to Completely Degraded. The majority of the western remnant vegetation block has been classified as Pristine, with two small sections classified as Excellent along its north and south eastern boundaries. The vegetation situated immediately along the creek / drainage line has been classified as both Pristine and Very Good. Roadside vegetation has been classified as both Very Good and Excellent. The paddock areas and vegetation surrounding dams and remnant vegetation have been classified as Completely Degraded due to significant structural changes such as multiple disturbances be that either through fire, clearing, weed invasion and impacts from cattle. Stands of paddock trees have also been classified as Completely Degraded due to the complete loss of structure and solely consisting of a native overstorey. Overall 121.52ha were classified as Completely Degraded, 12.06ha as Very Good, 59.76ha as Pristine and 6.78ha as Excellent. Refer to Figure 10 for vegetation condition mapping.

Table 2: Condition Rating Scale (Keighery 1994).

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

3.4. Weeds and disturbance

Of the 141 species recorded within the survey area, 19 (12.7%) are introduced (Table 1). Of the 19-weed species identified across the survey area, none are a declared pest species under the *Biosecurity and Agriculture Management Act 2007*. Under the Environmental Weeds Strategy for Western Australia (*CALM 1999*) there are two weed species rated as Low, four species are rated as Mild, seven species are rated as Moderate, four species are rated as High and the remaining two species have no rating (Table 3). The strategy classifies weeds according to their relative level of threat to conservation (high medium or low) and this rating is based on their distribution, relative level of invasiveness and environmental impact.

Table 3: Weed species recorded from the survey area.

Family	Genus	Species	Vernacular	WA Weed Strategy rating (CALM 1999) / BAM Act
Asteraceae	Hypochaeris	radicata	Flat Weed	Moderate / Permitted - s11
Cyatheaceae	Cyathea	cooperi	Tree Fern	Low / Permitted - s11
Fabaceae	Acacia	baileyana	Cootamundra Wattle	Low / Permitted - s11
Fabaceae	Acacia	longifolia	Sydney Wattle	Permitted - s11
Fabaceae	Ornithopus	compressus	Yellow Serradella	Mild / Permitted - s11
Fabaceae	Psoralea	pinnata	African Scurfpea	Mild / Permitted - s11
Fabaceae	Trifolium	glomeratum	Cluster Clover	Moderate / Permitted - s11



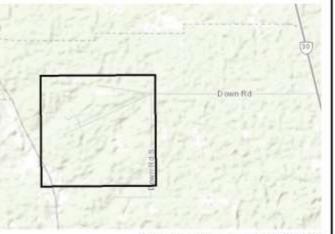
Family	Genus	Species	Vernacular	WA Weed Strategy rating (CALM 1999) / BAM Act
Iridaceae	Watsonia	meriana var. bulbillifera	Bugle Lily	High / Permitted - s11
Poaceae	Avena	barbata	Bearded Oats	Moderate / Permitted - s11
Poaceae	Briza	maxima	Blowfly Grass	Moderate / Permitted - s11
Poaceae	Bromus	diandrus	Great Brome	High / Permitted - s11
Poaceae	Eragrostis	curvula	African Lovegrass	High / Permitted - s11
Poaceae	Holcus	lanatus	Yorkshire Fog	Moderate / Permitted - s11
Poaceae	Lagurus	ovatus	Hare's Tail Grass	High / Permitted - s11
Poaceae	Lolium	rigidum	Wimmera Ryegrass	Moderate / Permitted - s11
Poaceae	Cenchrus	clandestinus	Kikuyu	Moderate / Permitted - s11
Polygalaceae	Rumex	pulcher	Fiddle Dock	Mild / Permitted - s11
Phytolaccaceae	Phytolacca	octandra	Red Ink Plant	Mild / Permitted - s11
Solanaceae	Solanum	laciniatum	Kangaroo Apple	Permitted - s11





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Overview Map Scale 1:100,000



Subject Site

Cadastre

5m Contours

Vegetation Condition

Completely Degraded

Very Good Excellent

Pristine

Scale 1:8,500 @ A3 GDA MGA 94 Zone 50

Data Sources
Aerial Imagery: WA Now, Landgate Subscription Imagery
Cadastre, Relief Contours and Roads: Landgate 2017
IRIS Road Network: Main Roads Western Australia 2017
Overview Map: World Topographic map service, ESRI 2012

City of Albany PO Box 484 Albany, WA 6331

Vegetation Condition Mapping

EH	KK KK	BT
TATUS	FILE	DATE
FINAL	MSC0137-002	13/12/2018



3.5. Priority and Threatened Ecological Communities

While two threatened ecological communities were identified as potentially occurring within the survey area during the desktop assessment, neither of these were found to be present within the survey area (Table 4).

Table 4 Potential Priority and Threatened Ecological Communities within 15km of the survey area.

Community Name	Status	Description	Survey Outcome
Subtropical and Temperate Coastal Saltmarsh	Priority 3 (WA) VU (EPBC Act)	Consists of the assemblage of plants, animals and microorganisms associated with saltmarsh in coastal regions of sub-tropical and temperate Australia (south of 23oS latitude). The habitat is coastal areas under tidal influence. In southern latitudes saltmarsh are the dominant habitat in the intertidal zone and often occur in association with estuaries. It is typically restricted to the upper intertidal environment, generally between the elevation of the mean high tide, and the mean spring tide. The community consists mainly of salt-tolerant vegetation (halophytes) including: grasses, herbs, reeds, sedges and shrubs. Succulent herbs and grasses generally dominate and vegetation is generally <0.5m tall with the exception of some reeds and sedges. Many species of non-vascular plants are also found in saltmarsh, including epiphytic algae, diatoms and cyanobacterial mats. Saltmarsh consists of many vascular plant species but is dominated by relatively few families. There is also typically a high degree of endemism at the species level. The two most widely represented coastal saltmarsh plant families are the Chenopodiaceae and Poaceae. Four structural saltmarsh forms are currently recognised based on dominance of a particular vegetation type: • dominance by succulent shrubs (e.g. Tecticornia) • dominance by grasses (e.g. Sporobolus virginicus) • dominance by sedges and grasses (e.g. Juncus kraussii, Gahnia trifida) • dominance by herbs (e.g. low-growing creeping plants such as Wilsonia backhousei, Samolus repens, Schoenus nitens) (DBCA, 2017a).	Not present within the survey area. The habitat described is not present in the creek line / drainage area. The structural composition on site does not meet any of the four described as being consists with this TEC.
Proteaceae Dominated Kwongkan Shrublands of the Southeast Coastal Floristic Province of Western Australia	Priority 3 (WA) EN (EPBC Act)	Consists of predominantly obligate seeding proteaceous shrubland and heath (kwongkan) and mallee heath on sandplain, duplex sand/clay and gravels overlying Eocene sediments, quartzite, schist, Yilgarn and Albany Fraser granite and greenstone ranges. Its flora is characterised by high species diversity and a high degree of endemism, particularly in the Stirling Range, Fitzgerald River National Park, Ravensthorpe Range and Russell Ranges. Due to the high levels of endemism, there are few species that exist across the entire range of the dense, obligate seeding Proteaceae dominated shrublands and kwongan of the Esperance Sandplains, however particular species have been identified as common dominant species in each of its ecodistricts (DBCA, 2017a).	Not present within the survey area. Species composition does not meet the diagnostic features of the TEC.

1.1. Threatened Flora

The scope for this survey was to provide the client with information on any threatened flora species that are potentially present within the survey area. For species that were not flowering and that require flowers for accurate identification, a risk assessment was undertaken of habitat suitability (Table 5). Species were deemed either likely or unlikely to occur in the area based on habitat suitability (e.g. soil type, vegetation type, density etc). None of the 17 DRF and 41 Priority species potentially occurring in the area were found to be present.



Table 5 Potential threatened flora located within 15km of the survey area.

		Status		Flowering	Potentially Suitable Habitat	Survey Outcome /
Family	Species	(WA)	Habitat	period	Present	Comment
						Species detection within
						remnant vegetation to the
	1					west. Noted during the
Asparagasas	Laxmannia	P4	Cray aged Winter wet legations	May Jul	Υ	report writing process the species has been delisted.
Asparagaceae	jamesii	P4	Grey sand. Winter-wet locations.	May-Jul	ĭ	Survey timing suitable. No
	Thysanotus					suitable habitat present.
Asparagaceae	isantherus	P4	Granite.	Nov - Dec	N	Species not found.
7.lopuluguoodo	Lepidium		Granio.	1101 200		Species flet leafia.
	pseudotasmanicu					Survey timing suitable.
Brassicaceae	m	P4	Loam, sand.	Feb or Dec	Υ	Species not found.
						Survey timing suitable. No
	Centrolepis					suitable habitat present.
Centrolepidaceae	caespitosa	P4	White sand, clay. Salt flats, wet areas.	Oct-Dec	N	Species not found.
			White, grey or yellow sand, gravel. Occurs in heathland on			
			gentle slopes with Allocasuarina humilis, Banksia grandis,			
D	Calectasia	_	Adenanthos cuneatus, Hakea ruscifolia and Melaleuca	luis Ost	V	Survey outside of flowering
Dasypogonaceae	cyanea	l	thymoides.	Jun-Oct	Y	period. Species not found. Survey timing suitable. No
						suitable habitat present.
Droseraceae	Drosera fimbriata	P4	White sand, clay. Salt flats, wet areas.	Oct-Dec	N	Species not found.
Diosciaocac	Drosora Ilmonata	1 7	Willia Suria, Glay. Sait flats, wet alloas.	COLDCO	11	Survey outside of flowering
						period. Genus not found
	Andersonia		Grey or peaty sand, often over laterite. Swampy areas, granite			within the survey area.
Ericaceae	auriculata	P3	outcrops.	Apr-Oct	Υ	Species not found.
	Andersonia sp.					Genus not found within the
	Jamesii (J.					survey area. Species not
Ericaceae	Liddelow 84)	P3	Very limited publicly available information on this species			found.
	Andersonia sp.					Survey outside of flowering
	Mitchell River					period. Genus not found
Friences.	(B.G.	D2	Cray and averalaterite or granite	lun Cont	V	within the survey area.
Ericaceae	Hammersley 925)	P3	Grey sand over laterite or granite.	Jun-Sept	Y	Species not found.
Ericaceae	Leucopogon alternifolius	P3	Grey/white sand. Swampy areas, seasonally wet areas	Aug-Dec	Y	Survey timing suitable. Species not found.
LIILALEAE	aiterrinonus	гэ	Oregivinite sand. Swampy areas, seasonally well areas	Aug-Dec		T opecies not lound.



Family	Species	Status (WA)	Habitat	Flowering period	Potentially Suitable Habitat Present	Survey Outcome / Comment
	Leucopogon		White/grey or yellow sand, lateritic gravelly soils. Sandplains,	Jul-Nov or Feb-		Survey timing suitable.
Ericaceae	cymbiformis	P2	wet flats, foothills	Mar	Υ	Species not found.
Ericaceae	Lysinema lasianthum	P4	Swamps, seasonally wet areas	Jul-Nov	Υ	Survey timing suitable. Species not found.
Ericaceae	Sphenotoma drummondii	T	Stony or shallow soils over granite or quartzite. Steep rocky slopes, crevices of rocks	Sept-Dec	N	Survey timing suitable. No suitable habitat present. Species not found.
Fabaceae	Acacia prismifolia	Х				Presumed extinct, Species not found.
Fabaceae	Chorizema carinatum	P3	Sand, sandy clay	Oct - Dec	Υ	Survey timing suitable. Species not found.
Fabaceae	Kennedia glabrata	Т	Soil pockets, sandy soils. Granite outcrops.	Aug-Nov	Υ	Survey timing suitable. Species not found.
Haemodoraceae	Conostylis misera	Т	White or grey sand, sandy loam. Winter-wet flats.	Oct-Nov	Υ	Survey timing suitable. Species not found.
Haloragaceae	Gonocarpus pusillus	P4	Grey sandy clay. Winter-wet swamps	Nov-Dec	N	Survey timing suitable. No suitable habitat present. Species not found.
Haloragaceae	Gonocarpus simplex	P4	Peaty sand. Swamps, seasonally inundated areas	Nov-Dec	Υ	Survey timing suitable. Species not found.
Juncaceae	Juncus meianthus	P3	Black sand, sandy clay. Creeks, seepage areas	Nov-Dec or Jan	N	Survey timing suitable. No suitable habitat present. Species not found.
Malvaceae	Thomasia quercifolia	P4	Alluvium, sand over limestone, rocky loam. Coastal areas.	Sept-Dec	N	Survey timing suitable. No suitable habitat present. Species not found.
Malvaceae	Thomasia solanacea	P4	Alluvium, sand over limestone, rocky loam. Coastal areas.	Sept-Dec	N	Survey timing suitable. No suitable habitat present. Species not found.
Myrtaceae	Astartea transversa	P2	Grey sand or peaty black sandy clay on winter-wet flats in heath	Jan and Apr- Jun	Υ	Survey outside of flowering period. Genus not found within the survey area. Species not found.



Family	Species	Status (WA)	Habitat	Flowering period	Potentially Suitable Habitat Present	Survey Outcome / Comment
						Survey timing suitable. No
Montaga	Melaleuca	D2	Cond Lineaton dides 0 differen	04 0-4	NI.	suitable habitat present.
Myrtaceae	ringens	P3	Sand. Limestone ridges & clifftops.	Sept-Oct	N	Species not found.
	Verticordia					Survey timing suitable. No suitable habitat present.
Myrtaceae	apecta	T	Sandy clay with loam & broken granite. Slopes	Nov	N	Species not found.
	Verticordia		-			Survey timing suitable. No
	fimbrilepis subsp.					suitable habitat present.
Myrtaceae	australis	T	Shallow sand, clay loam. Granite outcrops	Oct-Dec	N	Species not found.
	Caladenia					Survey timing suitable. No suitable habitat present.
Orchidaceae	evanescens	P1	Sand. Consolidated sand dunes.	Nov	N	Species not found.
Orchidaceae	evanescens	Г	Sand. Consolidated sand dunes.	INOV	IN	Survey timing suitable. No
	Caladenia					suitable habitat present.
Orchidaceae	granitora	Т	Shallow soil crevices on granite. Coastal areas	Oct-Nov	N	Species not found.
0.0	Caladenia		Sandy loam. Winter-wet flats, margins of lakes, creeklines,			Survey timing suitable.
Orchidaceae	harringtoniae	Т	granite outcrops.	Oct-Nov	Υ	Species not found.
	Ŭ					Survey timing suitable.
Orchidaceae	Corybas abditus	P3	Black peaty soils. Winter-wet swamps	Oct-Nov	Υ	Species not found.
						Survey outside of flowering
						period. No suitable habitat
Orchidaceae	Corybas limpidus	P4	Sand. Coastal dunes.	Aug-Sept	N	present. Species not found.
	Diuris					Survey timing suitable.
Orchidaceae	drummondii	T	Low-lying depressions, swamps.	Nov-Dec or Jan	Υ	Species not found.
	Drakaea					Survey outside of flowering
Orchidaceae	micrantha	Т	White-grey sand.	Sept-Oct	Υ	period. Species not found.
						Survey outside of flowering
Orchidaceae	Microtis globula	Т	Peaty soils. Winter-wet swamps	Dec or Jan	Υ	period. Species not found.
						Survey timing suitable.
Orchidaceae	Microtis pulchella	P4	Peaty sand. Winter-wet swamps	Nov-Dec or Jan	Υ	Species not found.
						Survey timing suitable.
Orchidaceae	Microtis quadrata	P4	Poorly known taxa with unresolved distribution	Sept-Jan	Υ	Species not found.
	Prasophyllum 		1			Survey timing suitable.
Orchidaceae	paulinae	P1	Low winter wet shrublands, in grasses and sedges in swamps	Sept-Nov	Υ	Species not found.



Family	Species	Status (WA)	Habitat	Flowering period	Potentially Suitable Habitat Present	Survey Outcome / Comment
	Pterostylis		Recently described (2017) very limited publicly available			Genus not found on site.
Orchidaceae	heberlei	P2	information			Species not found.
	Thelymitra				.,	Survey outside of flowering
Orchidaceae	variegata	P2	Sandy clay, sand, laterite	Jun-Sept	Υ	period. Species not found.
						Survey outside of flowering
5 /	Adenanthos x	5.4				period. No suitable habitat
Proteaceae	cunninghamii	P4	Grey sand. Coastal dunes & sandplains	Sept-Oct	N	present. Species not found.
						Survey outside of flowering
						period. Species
						distinguishable outside of
Proteaceae	Banksia brownii	Т	Sand over laterite, gravel, loam over granite. In gullies	Mar-Jul	Y	flowering period. Species not found.
Fioleaceae	Daliksia Diowilli	1	Shallow white to grey sand over laterite, in low open forest or	Mai-Jui	1	Survey timing suitable.
Proteaceae	Banksia goodii	Т	low woodland of Jarrah and Sheoak.	May, Nov	Υ	Species not found.
Tioleaceae	Danksia goodii	1	low woodiand of Janan and Shebak.	iviay, ivov	1	Survey outside of flowering
	Banksia					period. No suitable habitat
Proteaceae	seneciifolia	P4	Sandy loam, sand. Rocky hillsopes.	Jun or Aug	N	present. Species not found.
110100000	Correctment	' '	Carray round, carrar recordy ninespeed	- Carr Gr 7 tag		Survey outside of flowering
Proteaceae	Banksia serra	P4	Gravel, sand or clay loam over laterite. Hillslopes.	Jul-Sept	Υ	period. Species not found.
						Survey outside of flowering
	Banksia					period. No suitable habitat
Proteaceae	verticillata	Т	Sandy loam. On or beside granite outcrops.	Jan-Apr	N	present. Species not found.
	Isopogon			·		·
	buxifolius var.					Survey timing suitable.
Proteaceae	buxifolius	P2	Grey sand. Swampy areas.	Jul-Dec	Υ	Species not found.
	Isopogon		Loam or sand on granite, peaty sand. Swampy depressions,			Survey timing suitable.
Proteaceae	uncinatus	T	hillslopes.	Oct-Nov	Υ	Species not found.
	Lambertia		Shallow grey or light brown sand, grey sandy loams over			
	orbifolia subsp.		laterite, gravel. Gently undulating plains, low slopes, low	May, Aug, Nov-		Survey timing suitable.
Proteaceae	orbifolia	T	ridges, along roadsides	Dec or Jan-Feb	Υ	Species not found.
						Survey timing suitable.
Proteaceae	Synaphea incurva	P1	Gravelly loam, sandy soils. Slopes.	Sept-Nov	Υ	Species not found.
	Synaphea					Survey outside of flowering
Proteaceae	intricata	P3	Sand, peaty sand. Flats, swampy areas	Sept-Oct	Υ	period. Species not found.



Family	Species	Status (WA)	Habitat	Flowering period	Potentially Suitable Habitat Present	Survey Outcome / Comment
Proteaceae	Synaphea preissii	P3	Sand, gravelly loam	Jul-Nov	Y	Survey timing suitable. Species not found.
Restionaceae	Chordifex abortivus	Т	Sand. Low rises and undulating areas.	Sep-Oct	N	Survey outside of flowering period. No suitable habitat present. Species not found.
restionaceae	Leptocarpus	'	Cana. Low rises and undulating areas.	ОСР-ОСІ	14	Survey outside of flowering
Restionaceae	crassipes	P3	Swamps	Dec-Feb	Υ	period. Species not found.
Rhamnaceae	Spyridium spadiceum	P4	Sand or gravelly loam. Granitic hills	Aug-Dec or Jan-Feb/Apr	N	Survey timing suitable. No suitable habitat present. Species not found.
Rutaceae	Boronia crassipes	P3	Sand, peaty sand. Winter-wet swamps, creeklines.	Aug-Sept	Υ	Survey outside of flowering period. Species not found.
Rutaceae	Boronia virgata	P4	Peaty sand or clay. Swampy or waterlogged places.	Aug-Dec	Υ	Survey timing suitable. Species not found.
Stylidiaceae	Stylidium falcatum	P1	Sand, gravelly clay loam. Plains, lateritic ridges.	Oct-Nov	N	Survey timing suitable. No suitable habitat present. Species not found.
Stylidiaceae	Stylidium gloeophyllum	P4	Sandy clay loam, granite. Winter wet depressions, or fringing outcrops. Agonis, mallee, or Hakea shrubland with sedges	Oct-Dec	Υ	Survey timing suitable. Species not found.
Thymelaeaceae	Pimelea rosea subsp. annelsii	P3	Sandy soils with gravel, laterite. Upper slopes	Sept-Nov	Υ	Survey timing suitable. Species not found.



4. Fauna

4.1. Desktop Assessment

Desktop inventory of potential fauna species likely to occur within 15 km of the survey area was undertaken using the following databases and applicable reports:

- DBCA's Nature Map Database Search (combined data from DBCA, Western Australian Museum and Birds Australia) (DPaW 2007-); and
- Protected matters search tool (DoE 2017a).

The list compiled from this data (Appendix B) is based on observations from a broader area than the survey area and is likely to include species that are vagrants or would not occur in the actual survey area due to a lack of suitable habitat or poor ecological connectivity. The databases also often included very old records and in some cases the species in question may have become locally or regionally extinct.

4.2. Habitat Connectivity

The South Coast Macro Corridor Network is a bioregional and landscape-scale approach to habitat connectivity that acknowledges that remnant vegetation can play a very important role in developing corridors between protected areas to help achieve long-term biodiversity management outcomes (Wilkins et al. 2006; DBCA, 2017b). The subject site lies within one of the major potential vegetation corridors known as the "Marbellup Link" which connects remnant vegetation to the existing protected areas. This particular proposed corridor links remnant vegetation to the north west of the site to the Mount Lindsay, as well as connecting to the "Coastal Corridor" which ultimately connects to Torndirrup National Park (WALGA, 2018c).

At a local level the remnant vegetation within the survey area provides a corridor for wildlife along the eastern and northern property boundaries and internal throughout the site. The remnant vegetation situated within the western and southern extents of the property also provide wildlife corridors / habitat connectivity external to the site to surrounding bushland areas. The riparian vegetation situated along the Marbellup Flats (located along the southern boundary) provides a corridor to the south into the Down Road South Nature Reserve.

The vegetation types / wildlife habitat present within the survey area are well represented locally and in nearby reserves. The Jarrah / Marri dominated woodland and forest present are one of the most abundant habitat types present within the ARVS survey area, providing a significant proportion of wildlife habitat. The *Homalospermum* and *Callistemon* dominated thickets present with the survey area are not as common at a regional level based on ARVS mapping. However, these habitat types are well represented in surrounding remnant vegetation and nearby reserves such as the Down Road Nature Reserve.

4.3. Potential Breeding, Foraging and Roosting Black Cockatoo Habitat

Desktop searches of publicly available information indicates that areas of the Jarrah and Marri dominated vegetation throughout the survey area is potential feeding / foraging habitat to Carnaby's Black Cockatoos (WALGA, 2018*d*). This dataset is based on vegetation containing plant species favoured by Carnaby's Black Cockatoos not point records of feeding (WALGA, 8018*d*). This dataset shows no confirmed or potential breeding or roosting areas for Carnaby's Black Cockatoos to be present within the survey area. Based on known habitat preferences for Baudin's Back Cockatoos and Forest Red-tailed Black Cockatoos the vegetation present in the survey area also holds potential for foraging, breeding and roosting for the two species (DSEWPaC (2012).

4.4. Field Methodology

Field survey work was carried out by Dr. Karlene Bain (Wildlife Ecologist) and Bianca Theyer (Conservation and Wildlife Biologist) from Bio Diverse Solutions between the 29th of October and the 2nd November 2018 in accordance with Guidance Statement 56: *Terrestrial Fauna Surveys* (EPA 2016a). A total of 44 survey hours over 5 days were dedicated to the fauna survey. Vegetation units observed during the site survey were used to define broad fauna habitat types across the site (See Section 3). The aim of the fauna survey was to gain an understanding of what species and habitat are present in the area and to determine the likelihood of threatened species utilising the area as well as the significance of the habitat to them. As the western remnant vegetation area is not set to be developed, significant trees were not measured and mapped throughout this area. Surveys in all areas consisted of systematic transects along which evidence of fauna activity was documented and potential habitat was identified. In all areas (other than the western remnant vegetation) each individual tree with a DBH



>500mm was measured, mapped and assessed for habitat potential. All evidence of threatened species was GPS'd and all hollows were GPS'd and described, with likely occupants noted.

Targeted assessment was carried out for *Calyptorhynchus baudinii* (Baudini's Cockatoo), *Calyptorhynchus banksii naso* (Forest Red-tailed Black-Cockatoo), *Calyptorhynchus latirostris* (Carnaby's Cockatoo), *Dasyurus geoffreyi* (Chuditch), *Hydromys chrysogaster* (Water Rat), *Falsistrellus mackenziei* (Western False Pipistrelle), *Isoodon obesulus fusciventer* (Quenda), *Notamacropus irma* (Western Brush Wallaby), *Phascogale tapoatafa wambenger* (Brush-tailed Phascogale), *Pseudocheirus occidentalis* (Western Ringtail Possum), *Setonix brachyurus* (Quokka) and *Zephyrarchaea mainae* (Western Arachnid Spider).

Targeted assessment techniques included:

- Survey for hollow-bearing trees and potential breeding trees for Calyptorhynchus banksii naso (Forest Redtailed Black Cockatoo), Calyptorhynchus baudinii (Baudin's Cockatoo) and Calyptorhynchus latirostris (Carnaby's Black-Cockatoo), including identification of all suitable trees species within the survey area with a Diameter at Breast Height (DBH) of over 500mm;
- Surveys for foraging habitat for *Calyptorhynchus banksii naso* (Forest Red-tailed Black Cockatoo), *Calyptorhynchus baudinii* (Baudin's Cockatoo) and *Calyptorhynchus latirostris* (Carnaby's Black-Cockatoo), including observation of any actual foraging evidence such as chewed nuts, cones or stripped bark;
- Surveys for potential habitat trees for *Pseudocheirus occidentalis* (Western Ringtail Possum), through identification of dreys, hollows and tree scratchings;
- Surveys for potential habitat and evidence of Setonix brachyurus (Quokka), Isoodon obesulus fusciventer (Quenda) presence through the identification of diggings, scats and runnels and the use of remote cameras;
- Surveys for potential habitat and evidence of *Dasyurus geoffreyi* (Chuditch) presence through the identification of scats, activity around potential den logs and the use of remote cameras;
- Surveys for potential hollows for *Phascogale tapoatafa wambenger* (Brush-tailed Phascogale);
- Surveys for potential habitat and evidence of *Notamacropus irma* (Western Brush Wallaby) presence through the identification of scats and the use of remote cameras;
- Surveys for potential habitat and evidence of Hydromys chrysogaster (Water Rat) through identification of scats, feeding debris and the use of remote cameras;
- Surveys for potential habitat for Zephyrarchaea mainae through identifying areas of suspended leaf litter;
- Surveys for potential hollows for Falsistrellus mackenziei; and
- General signs of habitat utilisation and evidence for any other species.

In total five cameras were placed where evidence of fauna activity was observed, in order to provide further evidence of species presence within the survey area (Refer to Figure 12). Cameras 04 and 10 were out in the field for 4 consecutive nights, whilst cameras 01, 07 and 23 were out for 3 consecutive nights.

A summary of threatened species survey outcomes are presented in Table 6. Refer to the following sections for survey outcomes.

The assessment was carried out in a manner consistent with the following documents developed by the EPA and Department of Environment and Energy (DoEE) formerly the Department of Sustainability, Water, Population, and Communities (DSEWPaC) and Department of the Environment, Water, Heritage and the Arts (DEWHA):

- EPA (2016a) Technical Guidance: Terrestrial Fauna Surveys;
- EPA (2016b) Technical Guidance: Sampling Methods for Terrestrial Vertebrate Fauna;
- EPA (2016c) Technical Guidance: Sampling of Short-range Endemic Invertebrate Fauna;
- DEWHA (2010) Survey guidelines for Australia's threatened birds;
- DSWEPaC (2011) Survey Guidelines for Australia's Threatened Mammals; and
- DSWEPaC (2012) Referral Guidelines for Three Threatened Black Cockatoo Species.

The results presented are based upon opportunistic field data collected over a limited period of time and are indicative of the environmental condition of the site at the time. Some fauna species are reported as potentially occurring within the study area based on the presence of suitable habitat (quality and extent) within the study area or immediately adjacent. With respect to opportunistic observations, the possibility exists that certain species may not have been detected during field investigations due to seasonal inactivity during the field survey, species present



within micro habitats not surveyed, cryptic species able to avoid detection and transient wide-ranging species not present during the survey period.

4.5. Survey Limitations and Constraints

Experience of personnel

Dr Karlene Bain has over 20 years of fauna survey experience, Bianca Theyer has 3 years' experience.

Scope (what faunal groups were sampled and were there any constraints affecting this)

The scope was a Level 1 survey and this was completed. Targeted habitat assessments for Black Cockatoos, Western Ringtail Possum, Quokka, Quenda, Chuditch, Brush-tailed Phascogale, Western Brush Wallaby, Water Rat, Western Arachnid Spider and Western False Pipistrelle were also conducted.

Proportion of task achieved and completeness of survey

A Level 1 survey of the survey area was completed. Additional targeted survey may be required within the western block of vegetation if development is to occur within it.

Disturbances (e.g. fire or flood)

A section of the western vegetation block had been recently burnt, however habitat assessment for Black Cockatoos, Arboreal Mammals, Wallaby's and Water rat were not affected by this. Overall the western block had a lower sampling intensity (due to the lack of proposed development) and therefore it is not deemed to have affected the completeness of the survey.

Intensity of survey

A Level 1 (and supplementary targeted assessments) were deemed appropriate given the proposed development is to be restricted to previously disturbed paddock / agricultural areas.

Sources of information (recent or historic) and availability of contextual information

Site specific data is limited as it is privately owned land, this is not considered a limiting factor for this survey.

Resources (e.g. degree of expertise available)

All resources required for this survey were available.

Remoteness or access issues

No restrictions were encountered. All areas were accessible by vehicle and on foot.

4.6. Non-Threatened Fauna survey outcomes

A description of the broadly defined fauna habitats within the study area (based on vegetation units) is given in Section 3. The approximate extent of each identified unit is shown in the Site Vegetation Complexes Map (Figure 9). During the field survey 40 species of fauna were detected, of which three are introduced; *Felis catus* (Cat), *Vulpes Vulpes* (Red Fox) and *Oryctolagus cuniculus* (Rabbit). There were multiple dens (Fox and Rabbit) located within the northern road reserve (Figure 11), as well as the portion of remnant vegetation situated along the southern boundary (east of the creek line; Figure 11). Multiple nests and hollows for non-threatened bird species such as: *Cracticus tibicen* (Australian Magpie), *Grallina cyanoleuca* (Magpie Lark) and *Purpureicephalus spurius* (Red Capped Parrot) were detected throughout the site, as well as multiple hollows likely being utilised by *Trichosurus vulpecula* (Brushtail Possum). Two unoccupied hollows were detected within the remnant vegetation to the west as well as one active *Eolophus roseicapillus* (Galah) hollow. The subject site also provides suitable habitat for *Macropus fuliginosus* (Western Grey Kangaroo) and *Rattus fuscipes* (Bush Rat). Multiple hollows likely being utilised by *Trichosurus vulpecula* were identified across the survey area. Refer to Table 6 for a list of species detected throughout the survey area, Figure 11 for non-threatened species indicator images and Figure 12 for locations of species and / or evidence.



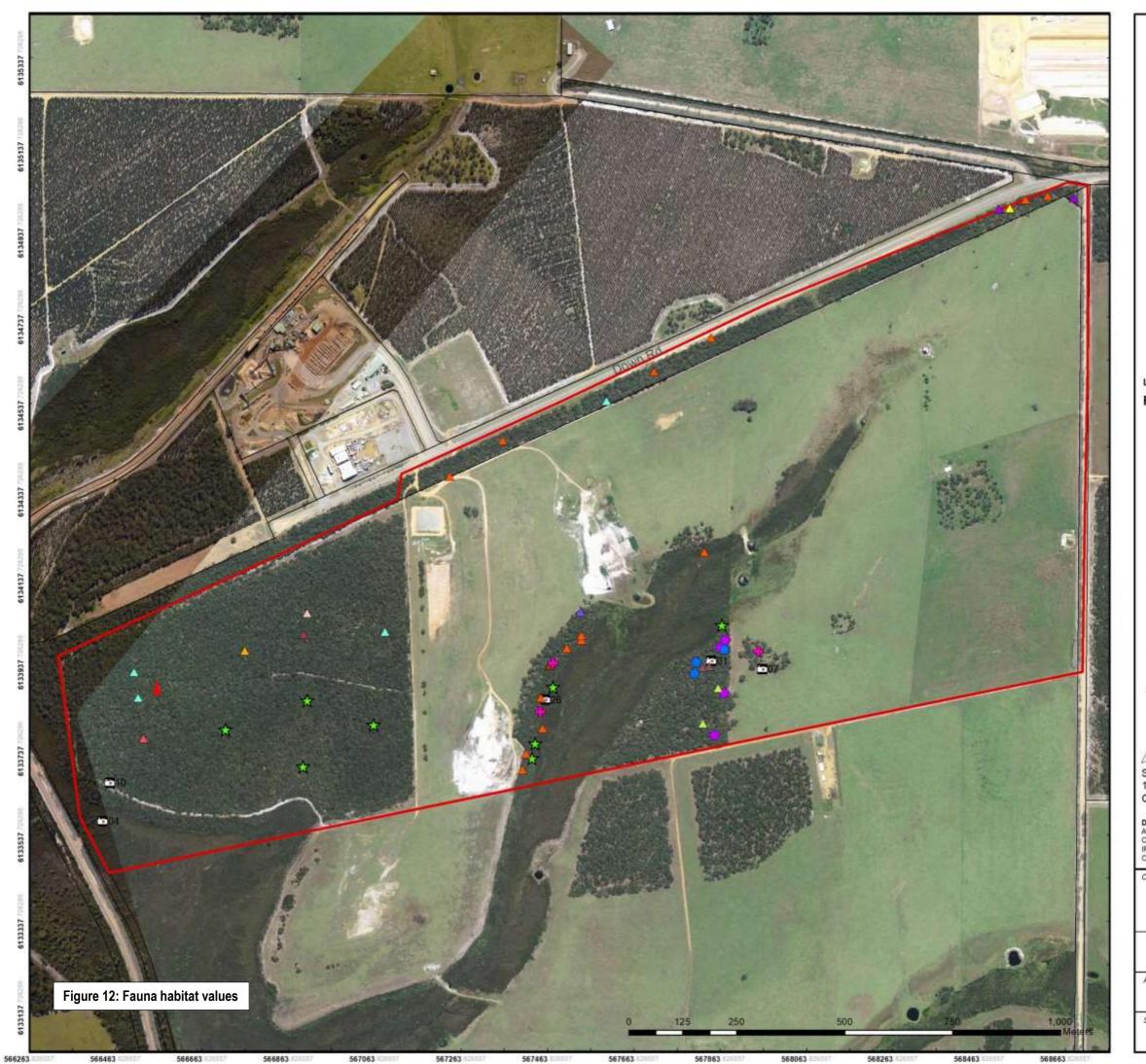


Figure 11: Species indicators throughout the survey area a) remote camera image of Fox near active den; b) remote camera image of a Kangaroo; c) and d) active fox den entrances; e) fox scat; f) Brushtail Possum scat.



Table 6: Fauna species recorded within survey area (presented in alphabetical order of family, then scientific name).

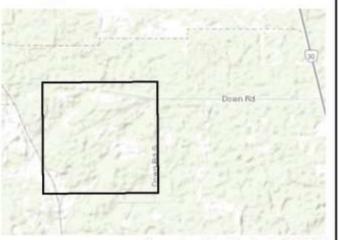
Family	Scientific name	Vernacular
Acanthizidae	Gerygone fusca	Western Gerygone
Accipitridae	Lophoictinia isura	Square-Tailed Kite
Alcedinidae	Dacelo novaeguineae	Laughing Kookaburra
Anatidae	Chenonetta jubata	Australian Wood Duck
Ardeidae	Egretta novaehollandiae	White-Faced Heron
Artamidae	Cracticus tibicen	Australian Magpie
Cacatuidae	Calyptorhynchus baudinii (EN)	Baudin's Cockatoo
Cacatuidae	Calyptorhynchus banksii naso (VU)	Forest Red-tailed Black Cockatoo
Campephagidae	Coracina novaehollandiae	Black-Faced Cuckoo-Shrike
Canidae	Vulpes vulpes *	Red Fox
Columbidae	Phaps elegans	Brush Bronzewing
Corvidae	Corvus coronoides	Australian Raven
Cuculidae	Cacomantis pallidus	Pallid Cuckoo
Elapidae	Notechis scutatus	Tiger Snake
Eolophus	Eolophus roseicapillus	Galah
Estrildidae	Stagonopleura oculata	Red-Eared Firetail
Felidae	Felis catus *	Cat
Hylidae	Litoria adelaidensis	Slender Tree Frog
Leporidae	Oryctolagus cuniculus *	Rabbit
Macropodidae	Macropus fuliginosus	Western Grey Kangaroo
Macropodidae	Notamacropus irma (P4)	Western Brush Wallaby
Maluridae	Malurus elegans	Red-Winged Fairy-Wren
Maluridae	Malurus splendens	Splendid Fairy-Wren
Meliphagidae	Anthochaera lunulata	Western Wattlebird
Meliphagidae	Anthochaera carunculata	Red Wattlebird
Meliphagidae	Phylidonyris novaehollandiae	New Holland Honeyeater
Monarchidae	Grallina cyanoleuca	Magpie-Lark
Muridae	Rattus fuscipes	Bush Rat
Myobatrachidae	Crinia glauerti	Rattling Froglet; Clicking Froglet
Pachycephalidae	Pachycephala rufiventris	Rufous Whistler
Pachycephalidae	Colluricincla harmonica	Grey Shrike-Thrush
Peramelidae	Isoodon obesulus fusciventer (P4)	Quenda; Southern Brown Bandicoot
Petroicidae	Eopsaltria georgiana	White-breasted Robin
Phalangeridae	Trichosurus vulpecula	Australian Brushtail Possum
Psittacidae	Purpureicephalus spurius	Red capped parrot
Psittacidae	Platycercus icterotis	Western Rosella
Psittacidae	Barnardius zonarius	Australian Ringneck
Rhipiduridae	Rhipidura leucophrys	Willie Wagtail
Rhipiduridae	Rhipidura albiscapa	Grey Fantail
Threskiornithidae	Threskiornis spinicollis	Straw-Necked Ibis





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Overview Map Scale 1:100,000

Subject Site

Cadastre Cadastre

Camera

Legend

Fauna Indicators

Active Den

Active Fox Den

Baudins Cockatoo

Brush Wallaby

A Brushtail Possum Scat

Brushtail Possum Scratchings

▲ Cockatoo Hollow

Forest Red-Tailed BC

Fox Den

▲ Fox Scat

▲ Galah Hollow

▲ Hollow

Possum Hollow

A Potential Den

Potential den log

☆ Quenda

Rabbit

Unoccupied Hollow



Scale 1:8,500 @ A3 GDA MGA 94 Zone 50

Data Sources
Aerial Imagery: WA Now, Landgate Subscription Imagery
Cadastre, Relief Contours and Roads: Landgate 2017
RIIS Road Network: Main Roads Western Australia 2017
Overview Map: World Topographic map service, ESRI 2012

City of Albany PO Box 484 Albany, WA 6331

Fauna Habitat Values

Assessor	QA Check	Drawn by	
KB & BT	KK	BT	
STATUS FINAL	MSC0137-002	30/01/2019	



4.7. Threatened fauna outcomes

Of the 40 species detected during the survey four species; *Calyptorhynchus banksii subsp. naso* (Forest Redtailed Black Cockatoo), *Calyptorhynchus baudinii* (Baudin's Cockatoo), *Isoodon obesulus fusciventer* (Quenda), and *Notamacropus irma* (Brush Wallaby) were identified on site. Potential habitat was found for *Calyptorhynchus latirostris* (Carnaby's Black-Cockatoo), *Apus pacificus* (Fork-tailed Swift), *Falco peregrinus* (Peregrine Falcon), *Falco peregrinus subsp. macropus* (Australian Peregrine Falcon), *Tringa nebularia* (Common greenshank), *Tyto novaehollandiae subsp. novae-hollandiae* (Masked Owl (southern subsp.)), *Dasyurus geoffroii* (Chuditch), *Falsistrellus mackenziei* (Western False Pipistrelle), *Hydromys chrysogaster* (Water-rat), *Phascogale tapoatafa* (Brush-tailed Phascogale), *Pseudocheirus occidentalis* (Western Ringtail Possum), *Setonix brachyurus* (Quokka), *Galaxiella munda* (Western Mud Minnow), *Galaxiella nigrostriatal* (Black-stripe Minnow) and *Lepidogalaxias salamandroides* (Salamanderfish). A risk assessment of habitat suitability and presence / absence of species is provided in the Table 7. Whilst locations of observed evidence of species presence is presented in Figure 13.

Arachnid

The threatened species *Zephyrarchaea mainae* (Western Arachnid Spider) requires suspended leaf litter lodged within Restionaceae species under *Agonis flexuosa*. There were no areas of suitable habitat identified during the survey.

Birds

Evidence of Calyptorhynchus banksii subsp. naso, and Calyptorhynchus baudinii feeding activity was found within the remnant vegetation on the southern boundary (southern precinct) of the survey area (Figure 12). The feeding debris wasn't fresh and occurred in low quantities with the area of feeding restricted to a small number of trees. The vegetation throughout the survey area contained a very high proportion of potential feed species for each of the three Black Cockatoos such as Eucalyptus marginata, Corymbia calophylla, Eucalyptus staeri, Allocasuarina fraseriana (DoE; 2017b, 2017c, 2017d). However, the southern area of remnant vegetation southern boundary (southern precinct) had the highest occurrences of Calyptorhynchus baudinii and Calyptorhynchus banksii subsp. naso feeding signs. No feeding signs for Calyptorhynchus latirostris (Carnaby's Black-Cockatoo) were detected during the survey.

The majority of feeding evidence was from *Corymbia calophylla* nuts (Figure 13) and this area of vegetation had the highest amount of significant (>500mm DBH) *Corymbia calophylla* trees present. This indicates that although the site contains potential high-quality foraging habitat (dominated by Jarrah and Marri) for the three Black Cockatoo species, the quality of forage is marginal and the area is not currently a favoured feeding site. One *Calyptorhynchus baudinii* individual was heard calling during the survey as it flew over the western remnant vegetation, but it did not land within the area. There was one potential Black Cockatoo hollow observed in the remnant vegetation to the west, no other signs of habitat utilisation (feeding signs etc.) were detected. 92 hollow-bearing trees and 586 potential habitat trees (>500mm DBH) were documented throughout the survey area. No other threatened bird species were identified on site. In total, based on vegetation types and the fauna habitat within there is approximately 64.15ha of suitable Black Cockatoo Habitat.

Potential habitat was identified in remnant vegetation areas across the site for Apus pacificus, Falco peregrinus, Falco peregrinus subsp. Macropus, Tringa nebularia and Tyto novaehollandiae subsp. novae-hollandiae yet evidence of species presence was not identified during the survey period.

Mammals

Evidence of *Isoodon obesulus fusciventer* through diggings and well-established runnels is present within the western remnant vegetation block as well as in surrounding creek line vegetation (Figure 13). Defined *Notamacropus irma* runnels were identified within the creek line vegetation (Figure 13) and scats were detected within the creek vegetation (Figure 13) as well as in a stand of paddock trees east of the creek line. Potential den logs for *Dasyurus geoffroii* (Chuditch) where detected in the remnant vegetation in the southern precinct (Figure 13), however no other evidence of species presence was detected.

There was no evidence of the presence of *Hydromys chrysogaster*, *Phascogale tapoatafa*, *Pseudocheirus occidentalis* or *Setonix brachyurus*. The high level of *Trichosurus vulpecula* (Brushtail Possum) activity throughout the survey area may be a limiting factor for these arboreal mammal species. The high level of *Vulpes vulpes* (Fox) activity and the presence of *Felis catus* (Feral Cat) may be a limiting factor for terrestrial mammal species.



<u>Fish</u>

Although no sampling was undertaken, the shallow creek system provides potential habitat for *Galaxiella munda*, *Galaxiella nigrostriatal* and *Lepidogalaxias salamandroides*.



Figure 13: Threatened species indicators throughout the survey area: a) Quenda Runnel; b) Quenda digging; c) potential habitat for *Galaxiella* and *Lepidogalaxias* species; d) Potential Chuditch den log; e) Wallaby runnel; f) Wallaby scat; g) and h) *Corymbia calophylla* nuts chewed by Black Cockatoos.



Table 7: Risk assessment and survey outcomes for potential threatened fauna within 15km of the survey area. Species are presented alphabetised under their relevant class. Note: N = No, Y = Yes, P = Potential, L = Low, M = Medium, H = High

			Cons Code WC / EPBC			Likelihood of Detection of Species	Species	
Class	Scientific Name	Vernacular	Acts	Survey Method	Habitat Present	if present	Present	Comment
		Western Archaeid		Search for suitable habitat including suspended leaf-litter litter lodged in the crown of				
Arachnid	Zephyrarchaea mainae	Spider	VU / -	Restionaceae species, L. gladiatum and L. effusum, which grow under long-unburnt stands of weeping peppermint (<i>Agonis flexuosa</i> (Willd.) Sweet; Rix and Harvey, 2009, 2012)	N	l _M	N	
Aves	Actitis hypoleucos	Common sandpiper	IA/ MI	Survey for birds in suitable habitat; almost entirely coastal.	N	Н	N	
(Birds)	Actitis hypoteucos	Common sandpiper	IAV IVII	Survey of potential habitat; almost exclusively aerial, flying from less than 1 m to at least 300	IN IN	П	IN .	
				m above ground over inland plains but sometimes above foothills or in coastal areas. Mostly				Species not identified during
İ				occur over dry or open habitats, including riparian woodland and tea-tree swamps, low scrub,				survey. Suitable habitat present
	Apus pacificus	Fork-tailed Swift	IA / MI	heathland or saltmarsh (Higgins 1999).	Υ	Н	N	along creekline.
İ								-
		Fleshy-footed						
	Ardenna carneipes	Shearwater	VU & IA / MI	Assessment of habitat suitability including coastal areas and offshore islands	N	Н	N	
				Diurnal surveys of suitable habitat and potential foraging areas; dawn and dusk surveys and				
İ				call back for calling birds. Preferred habitat includes low closed forests 5–15 m in height that				
				are dominated by Eucalyptus or Agonis and Banksia littoralis and occur in the steep and wetter				
	Atriala amaia alamasana	Naias Camula bind	ENL/ENL	gullies, and drainage lines of hills and granite mountains and on the margins of freshwater	N.			
	Atrichornis clamosus	Noisy Scrub-bird	EN / EN	lakes.	N	Н	N	
				Dawn survey for calling males. Survey was conducted during the spring-summer breeding season for 1 hour prior to dawn and one hour after sunrise when calls are most often heard				
				(Marchant & Higgins 1990). Weather was calm and clear, allowing for optimal listening				
				conditions. In the south-west of Western Australia, the Australasian Bittern is found in beds of				
				tall rush mixed with, or near, short fine sedge or open pools. The species also occurs around				
				swamps, lakes, pools, rivers and channels fringed with lignum (Muehlenbeckia sp.), cane				
	Botaurus poiciloptilus	Australasian Bittern	EN / EN	grass (Eragrostis sp.) or other dense vegetation (Marchant & Higgins 1990).	N	Н	N	
	Calidris alba	Sanderling	IA / MI	Survey for birds in suitable habitat; almost entirely coastal.	N	Н	N	
			EN & IA / EN	Survey for birds in suitable habitat; almost entirely coastal. Red Knots gather in large flocks				
	Calidris canutus	Red knot	& MI	on the coast in sandy estuaries with tidal mudflats	N	H	N	
				Survey for birds in suitable habitat; almost entirely coastal. Found on intertidal mudflats of				
	Calidris ferruginea	Curlew sandpiper	CR & IA / CR & MI	estuaries, lagoons, mangroves, as well as beaches, rocky shores and around lakes, dams and floodwaters.	N	l _H	N	
İ	Callulis lerrugillea	Curiew sariupipei	Q IVII	Survey of suitable habitat: mostly coastal areas, including sheltered inlets, bays, lagoons and	IN	П	IN	
				estuaries with intertidal mudflats; ephemeral or permanent shallow wetlands near the coast or				
	Calidris ruficollis	Red-necked stint	IA / MI	inland, and sometimes flooded paddocks or damp grasslands (Higgins & Davies 1996).	N	Н	N	
			CR & IA / CR	Survey for birds in suitable habitat; inhabit intertidal mudflats and sandflats in sheltered coasts,				
	Calidris tenuirostris	Great knot	& MI	including bays harbours and estuaries.	N	Н	N	
				,				Suitable foraging habitat is present
				Dawn survey for roosting and foraging birds. Diurnal survey for nesting females, focusing on				throughout the survey area.
				the hollows of large, mature trees. Remote cameras and diurnal assessment of the presence				Feeding debris and potential
				and extent of foraging habitat including vegetation containing proteaceous heath/woodland,				hollows and breeding / roosting
	Calyptorhynchus	Forest Red-tailed		eucalypt woodlands or forest (particularly Marri and Jarrah forest) and in areas dominated by				trees located onsite. Refer to
	banksii subsp. naso	Black Cockatoo	VU / VU	Pinus spp. (Johnstone and Kirkby 1999).	Y	H	Υ	Figure 12.
				Dawn survey for roosting and foraging birds. Diurnal survey for nesting females, focusing on the hollows of large, mature trees. Remote cameras and diurnal assessment of the presence				Suitable foraging habitat is present throughout the survey area
				and extent of foraging habitat including vegetation containing proteaceous heath/woodland,				Feeding debris and potential
				eucalypt woodlands or forest (particularly Marri and Jarrah forest) and in areas dominated by				hollows and breeding / roosting
	Calyptorhynchus			Pinus spp. Overall Marri (Corymbia calophylla) is the primary food source with the birds using				trees located onsite. Refer to
	baudinii	Baudin's Cockatoo	EN / EN	its seeds, flowers, nectar and buds.	Υ	H	Υ	Figure 12.



Table 7 Continued.

			Cons Code WC / EPBC		Habitat	Likelihood of Detection of Species		
Class	Scientific Name	Vernacular	Acts	Survey Method	Present	if present	Species Present	Comment
Aves				Dawn sightings and calls to identify potential breeding and roosting trees. Breeding tree survey				
Birds)				and identification of suitable tree species within the survey area with a diameter at breast height				
				(DBH) of over 50cm; Survey for presence and extent of foraging habitat (proteaceous heath/woodland, eucalypt woodlands or forest) and search for evidence of foraging such as				
				chewed nuts. Carnaby's Cockatoo has been observed feeding on a wide range of foods				
				including the seeds of Banksias, Dryandras, Corymbia, Eucalyptus, Hakeas, Grevillea, Pinus,				
				Callitris, Jacaranda, Helianthus, Macadamia, Prunus, Carya, Liquidambar, Mesomelaena spp.,				
				Citrullus and Erodium; flower buds, flowers and nectar of Banksia, Callistemon, Corymbia,				Suitable foraging habitat is present
				Dryandra, Eucalyptus, Grevillea, Stenocarpus, Protea spp., insect larvae and insects (including				throughout the survey area
				weevils) from under bark, from wood of live and dead trees and shrubs, from galls and from				Potential hollows and roosting trees
				flowers and flower stems, of Acacia spp. (including A. saligna and A. pentedenia) Banksia spp.,				located onsite. No feeding evidence
		Carnaby's Black-		Eucalyptus spp., Jacksonia, Agonis and Xanthorrhoea; also the flesh and juice of apples and				identified. Species not identified
	Calyptorhynchus latirostris	Cockatoo	EN / EN	persimmons.	Υ	Н	N	during survey.
				The Cape Barren Goose (south-western) can be surveyed from land, sea or air. The				
				recommended method for land-based surveys is to conduct area searches for birds or nests.				
				The recommended method for sea-based surveys is to circumnavigate inhabited or				
				potentially-inhabited islands in a boat. This latter method is effective because the geese				
				usually occur in open habitats with low vegetation and tend to walk or fly away when				
				approached. The recommended method for aerial surveys is to employ a helicopter or light				
				plane to search the coastline and then inland areas of inhabited or potentially-inhabited islands. It is recommended that surveys of islands be conducted during late autumn, when				
				few birds occur on the mainland, the weather is usually fine, and the breeding season has not				
	Cereopsis novaehollandiae	Cape Barren Goose		yet begun (reducing the risk of disturbance to breeding pairs) (DEWHA 2010; Halse et al.				
	grisea	(south-western),	VU / VU	1995; Shaughnessy & Haberley 1994)	N	L	N	
	<u> </u>	(1111),		Survey for birds in suitable habitat; almost entirely coastal, inhabiting littoral and estuarine				
				habitats. Mainly occur on sheltered sandy, shelly or muddy beaches with large intertidal				
		Greater Sand	VU & IA / VU	mudflats or sandbanks, as well as sandy estuarine lagoons (Stewart et al. 2007). Seldom				
	Charadrius leschenaultii	Plover	& MI	occur at shallow freshwater wetlands (Storr 1977).	N	Н	N	
				Diurnal surveys of suitable habitat and potential foraging areas; dawn and dusk surveys and				
				call back for calls. Preferred habitat includes floristically diverse low dense coastal heathland	l	l	l	
	Dasyornis longirostris	Western Bristlebird	EN / EN	(McNee 1986).	N	Н	N	
				At sea, shipboard surveys during the non-breeding season. On land, observation from				
		Antinadaan		onshore vantage points using telescope. Detection of flying birds. Surveys of beach cast birds				
	Diomedea antipodensis	Antipodean Albatross	EN / VU	may provide an opportunity to detect this species, though they provide little information on origins of specimens as bodies are usually displaced by currents and winds (DEWHA 2010).	N	Н	N	
	ыотпечеа анироченыя	Vinarings	LIN / VU	At sea, shipboard surveys in the non-breeding season. On land, observation from onshore	IN .	11	IN .	
				vantage points using telescopes. Detection of flying birds. Surveys of beach cast birds may				
			CR & IA / EN	provide an opportunity to detect this species, though they provide little information on origins				
	Diomedea dabbenena	Tristan Albatross	& MI	of specimens as bodies are usually displaced by currents and winds (DEWHA 2010).	N	Н	N	
				At sea, shipboard surveys. On land, observation from onshore vantage points (using				
				telescopes). Detection of flying birds. Surveys of beach cast birds may provide an opportunity				
		Southern Royal	VU & IA / VU	to detect this species, though they provide little information on origins of specimens as bodies				
	Diomedea epomophora	Albatross	& MI	are usually displaced by currents and winds (DEWHA 2010).	N	Н	N	
				At sea, shipboard surveys. On land, area searches or transect surveys and observation from				
				onshore vantage points using telescopes. Detection of flying birds and nests. Colony sites				
				well documented (Department of Primary Industries, Water and Environment, Hobart).				
				Surveys of beach cast birds may provide an opportunity to detect this species, though they				
	Diamada	Wandering	VU & IA / VU	provide little information on origins of specimens as bodies are usually displaced by currents	<u>, , </u>		,,	
	Diomedea exulans	Albatross	& MI	and winds (DEWHA 2010).	N	Н	N	
	Diomedea exulans subsp.	Cnows Albotress	VU & IA / VU	Accomment of habitat quitability including according according	l N		l N	
	exulans	Snowy Albatross	& MI	Assessment of habitat suitability including coastal areas and offshore islands	N	H	N	



Table 7 Continued.

			Cons Code WC / EPBC		Habitat	Likelihood of Detection of Species	Species	
Class	Scientific Name	Vernacular	Acts	Survey Method	Present	if present	Present	Comment
Aves (Birds)	Diomedea sanfordi	Northern Royal Albatross	EN & IA / EN & MI	At sea, shipboard surveys. The use of berley during shipboard surveys may help to attract birds and draw them in for closer observation. On land, observation from onshore vantage points using telescopes. Detection of flying birds. Surveys of beach cast birds may provide an opportunity to detect this species, though they provide little information on origins of specimens as bodies are usually displaced by currents and winds (DEWHA 2010).	N	Н	N	
	Diomedea Samordi	Albatioss	Q IVII	as bodies are usually displaced by currents and winds (DEWLA 2010).	IN		IN	Suitable habitat throughout the
	Falco peregrinus	Peregrine Falcon	OS / -	Survey of potential habitat; almost exclusively aerial whilst hunting (flying / hovering above vegetation).	Υ	Н	N	majority of the survey area. Species not identified during survey.
	Falco peregrinus subsp. macropus	Australian Peregrine Falcon	OS / -	Survey of potential habitat; almost exclusively aerial whilst hunting (flying / hovering above vegetation).	Υ	Н	N	Suitable habitat throughout the majority of the survey area Species not identified during survey.
	Halobaena caerulea	Blue Petrel	- / VU	At sea, shipboard surveys. On land, area searches or transect surveys in potential breeding habitat to locate burrows with follow-up spotlighting at night when birds active at colony. Surveys of beach cast birds may provide an opportunity to detect this species, though they provide little information on origins of specimens, as bodies are usually displaced by currents and winds. Colony sites are well documented (DEWHA 2010).	N	Н	N	
	Hydroprogne caspia	Caspian Tern	IA / MI	Assessment of habitat suitability including coastal areas and offshore islands	N	M	N	
	Limosa lapponica	Bar-tailed Godwit	IA / MI	Survey for birds in suitable habitat; inhabit estuarine mudflats, beaches and mangroves.	N	М	N	
		Western Alaskan		Observation using telescope from vantage points overlooking suitable foraging or roosting habitat at appropriate periods of the tidal cycle. Occurs mainly in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays. It has also been recorded in coastal sewage farms and saltworks, salt lakes and brackish wetlands				
	Limosa lapponica baueri	Bar-tailed Godwit	VU / VU	near coasts, sandy ocean beaches, rock platforms, and coral reef-flats (Higgins & Davies 1996).	N	L	N	
	Limosa lapponica menzbieri	Northern Siberian Bar-tailed Godwit	CR / CR	Observation using telescope from vantage points overlooking suitable foraging or roosting habitat at appropriate periods of the tidal cycle. The bar-tailed godwit (northern Siberian) occurs mainly in coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays. It has also been recorded in coastal sewage farms and saltworks, salt lakes and brackish wetlands near coasts, sandy ocean beaches, rock platforms, and coral reef-flats (Higgins & Davies 1996).	N	L	N	
	Macronectes giganteus	Giant Petrel	IA / EN & MI	Assessment of habitat suitability including coastal areas and offshore islands	N	Н	N	
	Macronectes halli	Northern Giant Petrel	IA / VU & MI	At sea, shipboard surveys. On land, area searches or transect surveys and observation from onshore vantage points using telescopes. Detection of flying birds and nests. Colony sites well documented (Department of Primary Industries, Water and Environment, Hobart). Surveys of beach cast birds may provide an opportunity to detect this species, though they provide little information on origins of specimens as bodies are usually displaced by currents and winds (DEWHA 2010).	N	н	N	
			CR & IA / CR	Observation using telescope from vantage points overlooking suitable foraging or roosting habitat at appropriate periods of the tidal cycle. During the non-breeding season in Australia, the eastern curlew is most commonly associated with sheltered coasts, especially estuaries, bays, harbours, inlets and coastal lagoons, with large intertidal mudflats or sandflats, often with beds of seagrass (Zosteraceae). Occasionally, the species occurs on ocean beaches (often near estuaries), and coral reefs, rock platforms, or rocky islets. The birds are often recorded among saltmarsh and on mudflats fringed by mangroves, and sometimes within the mangroves. The				
	Numenius madagascariensis	Eastern Curlew	& MI	birds are also found in coastal saltworks and sewage farms (Marchant & Higgins, 1993).	N	L	N	
	Oxyura australis	Blue-billed Duck	P4 / -	Diurnal surveys of suitable habitat. Prefers deep water in large permanent wetlands and swamps with dense aquatic vegetation. The species is completely aquatic, swimming low in the water along the edge of dense cover.	N	Н	N	
	Pachyptila turtur subantarctica	Fairy Prion	-/VU	At sea, shipboard surveys. On land, area searches or transect surveys and observation from onshore vantage points using telescopes. Detection of flying birds and burrows with follow-up spotlighting at night when birds are active at colony. Colony sites well documented (Department of Primary Industries, Water and Environment, Hobart). Surveys of beach cast birds may provide an opportunity to detect this species, though they provide little information on origins of specimens as bodies are usually displaced by currents and winds (DEWHA 2010).	N	M	N	

Table 7 Continued.



			Cons Code WC / EPBC		Habitat	Likelihood of Detection of Species		
	Scientific Name	Vernacular	Acts	Survey Method	Present	if present	Species Present	Comment
	Coloniano Namo	Osprey, Eastern	71010	Curroy moniou	1 TOOGIN	ii procont	Operator Freedom	Commone
)	Pandion cristatus	Osprey	IA / MI	Assessment of habitat suitability including coastal areas and offshore islands	N	Н	N	
				Survey for birds in suitable habitat; generally fresh, brackish of saline wetlands with exposed				
				mudflats at the edges. It is found in terrestrial wetlands including lakes, swamps, pools,				
				lagoons, tidal rivers, swampy fields and flood lands. They are occasionally seen on sheltered				
	Philomachus pugnax	Ruff	IA / MI	coasts, in harbours, estuaries, seashores and are known to visit sewage farms and saltworks	N	M	N	
				At sea, shipboard surveys in the non-breeding season. On land, observation from onshore				
			EN & IA / VU	vantage points using telescopes. Detection of flying birds. Surveys of beach cast birds may				
	Phoebetria fusca	Sooty Albatross	& MI	provide an opportunity to detect this species, though they provide little information on origins of specimens as bodies are usually displaced by currents and winds (DEWHA 2010).	N	M	N	
	T Hoebelha lusca	Jooly Albalioss	Q IVII	Survey for birds in suitable habitat; requires shallow water and mudflats, is found in well-	IN .	IVI	IN .	
	Plegadis falcinellus	Glossy Ibis	IA / MI	vegetated wetlands, floodplains, mangroves and rice fields	N	l M	N	
		, , , , ,		Surveys for birds in suitable habitat; coastal habitats, occasionally fresh, brackish or saline				
				wetlands or claypans especially with muddy margins and often with submerged vegetation or				
		Pacific Golden		short emergent grass. Other terrestrial habitats include short grass in paddocks, or ploughed				
	Pluvialis fulva	Plover	IA / MI	or recently burnt areas (Marchant & Higgins 1993).	N	H	N	
				Surveys for birds in suitable habitat; sheltered embayments, estuaries and lagoons with				
	Discipline assertante	O Di	10 / 10	mudflats and sandflats; terrestrial wetlands such as near-coastal lakes and swamps, or salt-	N		l N	
	Pluvialis squatarola	Grey Plover	IA / MI	lakes (Marchant & Higgins 1993). At sea, shipboard surveys in non-breeding season. Detection of flying birds. Surveys of	N	Н	N	
				beach cast birds may provide an opportunity to detect this species, though they provide little				
		Soft-plumaged		information on origins of specimens as bodies are usually displaced by currents and winds				
	Pterodroma mollis	Petrel	/ VU	(DEWHA 2010).	l _N	Тн	N	
				The Fairy Tern (Australian) nests on sheltered sandy beaches, spits and banks above the				
				high tide line and below vegetation. The subspecies has been found in embayments of a				
				variety of habitats including offshore, estuarine or lacustrine (lake) islands, wetlands and				
				mainland coastline (Higgins & Davies 1996; Lindsey 1986a). The bird roosts on beaches at				
				night (Higgins & Davies 1996). The Fairy Tern is similar to the Little Tern but differs in having				
				a shorter tail, a bigger head with a larger bill and shorter, narrower wings. Fairy Tern are				
		Australian Fairy		distinguishable in breeding plumage by their entirely yellow beaks (Higgins & Davies 1996) and the black patch at the eye which does not extend to a point at the bill (Cox & Close				
	Sternula nereis nereis	Tern	VU / VU	1977).	N	l _H	N	
	Sterridia riereis riereis	16111	V0 / V0	At sea, shipboard surveys. On land, observation from onshore vantage points using	IN .	11	IN .	
				telescopes. Detection of flying birds and nests. Surveys of beach cast birds may provide an				
		Indian Yellow-nosed	EN & IA / VU	opportunity to detect this species, though they provide little information on origins of				
	Thalassarche carteri	Albatross	& MI	specimens as bodies are usually displaced by currents and winds (DEWHA 2010).	N	H	N	
				At sea, shipboard surveys. On land, area searches or transect surveys, and observation from				
				onshore vantage points (using telescopes). Detection of flying birds and nests. Colony sites				
				well documented (Department of Primary Industries, Water and Environment, Hobart).				
			VU & IA / VU	Surveys of beach cast birds may provide an opportunity to detect this species, though they provide little information on origins of specimens as bodies are usually displaced by currents				
	Thalassarche cauta cauta	Shy Albatross	& MI	and winds (DEWHA 2010).	N	Н	N	
	Thaiassaiche caula caula	Only Albalioss	Q IVII	At sea, shipboard surveys. On land, observation from onshore vantage points using	I IN	111	IN .	
				telescopes. Detection of flying birds. Surveys of beach cast birds may provide an opportunity				
		White-capped	VU & IA / VU	to detect this species, though they provide little information on origins of specimens as bodies				
	Thalassarche cauta steadi	Albatross	& MI	are usually displaced by currents and winds (DEWHA 2010).	N	H	N	
	Thalassarche	Atlantic Yellow-						
	chlororhynchos	nosed Albatross	VU & IA / MI	Assessment of habitat suitability including coastal areas and offshore islands	N	Н	N	
				At sea, shipboard surveys during non-breeding season. On land, observation from onshore				
			\//10 1A /\/	vantage points using telescope. Detection of flying birds. Surveys of beach cast birds may				
	Thologographs impossida	Campball Albatrass	VU & IA / VU & MI	provide an opportunity to detect this species, though they provide little information on origins	N	l _H	N	
	Thalassarche impavida	Campbell Albatross	∆ IVII	of specimens as bodies are usually displaced by currents and winds (DEWHA 2010). Shipboard surveys. Continuous 300 m wide survey transects while the vessel is in motion	IN .	П	IN .	
		Black-browed	EN & IA / VU	(Woehler 1997). Preferred habitat Marine. Rarely fly over land except when breeding. Fly low				
	Thalassarche melanophris	Albatross	& MI	to moderately high, rising with updraft produced by wave fronts. Accompanies fishing boats.	l _N	l _H	N	
	. Haladda ond molanopimo	, iibati 000	1 ~ mi	to moderatery riight, home what aparate produced by wave fronte. Accompanies fishing bodts.	1."	1	1	I



Table 7 Continued.

			Cons Code WC / EPBC		Habitat	Likelihood of Detection of Species		
Class	Scientific Name	Vernacular	Acts	Survey Method	Present	if present	Species Present	
Aves								No evidence of species presence
(Birds)	Thalasseus bergii	Crested tern	IA / MI	Assessment of habitat suitability including coastal areas and offshore islands.	N	Н	N	identified during the survey.
	Thinornis rubricollis	Hooded Plover	P4 / -	Dawn survey for birds within suitable habitat including sheltered sandy beaches and salt lakes	N	Н	N	
	Tringa glareola	Wood Sandpiper	IA / MI	Survey for birds in suitable habitat; seen in small flocks or singly on inland shallow freshwater wetlands, often with other waders. They prefer ponds and pools with emergent reeds and grass, surrounded by tall plants or dead trees and fallen timber.	N	Н	N	
		Common					.,	Suitable habitat around existing dams and creek area. Species not
	Tringa nebularia	greenshank	IA / MI	Dawn survey for calling birds and dawn survey of dam and creek line area for birds.	Y	Н	N	identified during survey.
	Tyto novaehollandiae subsp. novaehollandiae	Masked Owl (southern subsp.)	P3/-	Surveys for potential breeding hollows in suitable habitat; wide variety of lowland forests and woodlands that provide mature trees with hollows suitable for nesting and roosting, and nearby open areas for foraging (Schodde & Mason 1980, Peake et al. 1993). Nests in large hollows in old eucalypt trees (Kavanagh & Murray 1996). Sedentary and territorial (Schodde & Mason 1980). May occupy exclusive home ranges, and may mate for life (Kavanagh & Murray 1996).	Y	Н	N	Suitable hollows throughout remnant vegetation areas. Species not identified during survey.
Fish (Actinopterygii)		Western Mid		Course for quitable habitet including analysty one or abellow goals or greated to strong (Don et al.				Suitable habitat present within creek; further surveys required to sample species if disturbances are likely to have direct or indirect
	Galaxiella munda	Western Mud Minnow	VU / -	Search for suitable habitat including small streams or shallow pools connected to streams (Pen et al. 1991).	Υ	L	Р	impacts on the quality of the water and creekline habitat.
		Black-stripe		Search for suitable habitat including small streams or shallow pools connected to streams (Pen et al.				Suitable habitat present within creek; further surveys required to sample species if disturbances are likely to have direct or indirect
	Galaxiella nigrostriata	Minnow	P3 / -	1991).	\ \	1	P	impacts on the quality of the water and creekline habitat.
	Lepidogalaxias							Suitable habitat present within creek; further surveys required to sample species if disturbances are likely to have direct or indirect impacts on the quality of the water
	salamandroides	Salamanderfish	EN/-	Search for suitable habitat including small streams or shallow pools connected to streams	Υ	L	Р	and creekline habitat.
	Nannatherina balstoni	Balston's Pygmy Perch	VU / VU	Search for suitable habitat including acidic, tannin-stained freshwater pools, streams and lakes in peat flats within 30 km of the coast of south-west Western Australia. The species prefers shallow water, and is commonly associated with tall sedge thickets and inundated riparian vegetation (Allen et al. 2002; Morgan et al. 1998).	N	Н	N	
Mammalia	Bettongia penicillata	Woylie, Brush-		Remote cameras and diurnal assessment of habitat, diggings and nest sites under dense bushes.				Suitable habitat present within areas of remnant vegetation. No evidence of species presence
	subsp. ogilbyi	tailed Bettong	CR / EN	Preferred habitat ranges from forest to grassland, coastal and inland. Remote cameras and searches for faecal material and den sites in wooded habitat. Logs must have	Y	H	N	identified during the survey. Potential den logs located onsite; high level of fox activity is likely to be a limiting variable. No other evidence of species presence
	Dasyurus geoffroii	Chuditch Western False	VU / VU	a diameter > 30 cm and a hollow with 7–20 cm diameter and 1 m length (Dunlop and Morris 2012) Surveys for potential hollows in suitable habitat; Preferred habitat of live mainly in wet sclerophyll forests of Karri, Jarrah and Tuart eucalypts. Roost in hollows in old trees, branches and stumps, in	Y	Н	N	identified. This species is directly detectable only by echo meters or observation. Potential hollows have been identified as a part of the tree
	Falsistrellus mackenziei	Pipistrelle	P4 / -	colonies Remote cameras and diurnal assessment of habitat and evidence of feeding. Wide variety of	Y	L	N	surveys. Some Cherax feeding debris onsite,
	Hydromys chrysogaster	Water-rat (Rakali)	P4 / -	freshwater habitats, from subalpine streams and other inland waterways to lakes, swamps, and farm dams.	Y	н	N	but this was more consistent with bird feeding than Water Rat.



Table 7 Continued.

			Cons Code WC / EPBC		Habitat	Likelihood of Detection of Species		
Class	Scientific Name	Vernacular	Acts	Survey Method	Present	if present	Species Present	Comment
Mammalia	Isoodon obesulus fusciventer	Quenda	P4	Remote cameras and diurnal assessment of habitat and diggings. Inhabits a variety of habitats including forests, woodlands, shrublands and heathlands (Van Dyck and Strahan 2008). The main habitat requirement is for dense cover at ground level (Maxwell et al. 1996, Van Dyck and Strahan 2008).	Y	н	Y	Diggings in remnant vegetation and creek line habitat. Present throughout remnant vegetation areas.
	Macrotis lagotis	Bilby	VU / VU	Assessment of habitat and search for scat, burrows and diggings Preferred habitat is open tussock grassland on uplands and hills; mulga woodland/shrubland growing on ridges and rises, and hummock grassland (spinifex) growing on sandplains and dunes, drainage systems, salt lake systems and other alluvial areas.	N	L	N	
	Notamacropus irma	Western Brush Wallaby	P4 / -	Remote cameras and diurnal assessment of habitat suitability, faecal material and runnels/ pads. Preferred habitat includes open forest or woodland, particularly open, seasonally-wet flats with low grasses and open scrubby thickets.	Υ	н	Υ	Scats consistent with Western Brush Wallaby were found in open Jarrah remnant vegetation upslope of the creekline and in the adjoining paddock areas.
	Parantechinus apicalis	Dibbler	EN / EN	Remote cameras and diurnal assessment of habitat suitability and diggings. Dibblers have been recorded over an extensive area and it is likely that they can occupy a diverse range of habitats. Dibblers seem to prefer vegetation with a dense canopy greater than 1 m high which has been unburnt for at least 10 years or more (Baczocha & Start 1996).	Y	M	N	Suitable habitat in remnant vegetation surrounding riparian areas and int eh western block. No evidence of species presence identified during the survey.
	Phascogale tapoatafa wambenger	Brush-tailed Phascogale	CD / -	Remote cameras and diurnal assessment of habitat suitability, potential hollows and scratchings.	Y	Н	N	Suitable habitat is present throughout the survey area. High level of Brushtail Possum activity likely to be a limiting variable.
	Pseudocheirus occidentalis	Western Ringtail Possum	CR/VU	Remote cameras and diurnal assessment of habitat suitability, hollows, dreys and search for faecal material. Suitable habitat in the southern forests includes Jarrah, Marri or Karri dominated forests. South coast habitat includes coastal heath, Jarrah/Marri woodland and forest, Peppermint Tree woodland, myrtaceous heaths and shrublands, Bullich dominated riparian zones and Karri forest (DBCA 2017).	Υ	Н	N	Suitable habitat is present throughout the survey area High level of Brushtail Possum activity likely to be a limiting variable. No evidence of species presence identified.
	Setonix brachyurus	Quokka	VU / VU	Remote cameras and diurnal assessment of habitat suitability, faecal pellets and runnels. Preferred habitat includes woodland, forest, coastal heath, thicket and riparian vegetation	Y	Н	N	Suitable habitat within the remnant vegetation surrounding creek line. No evidence of species presence identified.
Petromyzontida	Geotria australis	Pouched Lamprey		Search for suitable habitat. Species is anadromous and requires estuaries and coastal waters connected to freshwater rivers and streams with slow flowing, fine sediment microhabitats where spawning and development of ammocoetes occurs.	N	Н	N	



4.8. Significant tree outcomes

There were 678 significant trees (>500mm DBH) identified throughout the survey area, 132 *Allocasuarina fraseriana*, 141 *Corymbia calophylla*, 398 *Eucalyptus marginata* and seven *Eucalyptus staeri*. Of these 678 trees 94 contained hollows (three in *Allocasuarina fraseriana*, 12 in *Corymbia calophylla*, 78 in *Eucalyptus marginata* and one in *Eucalyptus staeri*), with a further 21 trees in the stages of developing hollows in trunks and / or branches. The highest number of hollow bearing trees are located within the area of remnant vegetation along the southern boundary (southern precinct), the northern road reserve and the large stand of paddock trees in the eastern portion of the survey area (Refer to Figure 14).

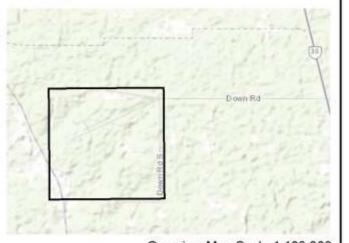
Of the 94 hollow bearing trees no evidence was found to indicate current occupancy by any of the three Black Cockatoo species. Of the existing hollows 11 are either suitable for or have the potential to develop into Black Cockatoo hollows, based on their dimensions (Trees 158, 269, 351, 389, 546, 611, 633, 636, 675, 676 and 677; Table 8). There are an additional 2 trees that have hollows forming that have good Black Cockatoo hollow forming potential (Trees 17 and 26; Table 8). Of the significant trees identified throughout the site (except for the western remnant) 63 had no clear evidence of being occupied, 11 were occupied by *Trichosurus vulpecula*, 14 were occupied by non-threatened birds, and four occupied by feral bees. Assessment of the 94 potential or actual habitat trees (with hollows) are presented in Table 8 (please refer to Appendix D for the full list of trees identified on site). Corresponding photographs of hollows within significant trees are presented in Figure 15.





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Overview Map Scale 1:100,000

Subject Site

Cadastre Cadastre

Significant Trees with Hollows

Hollow, Occupant

- N, Hollow forming
- Y, Bird (Non Threatened)
- Y, Feral Bees
- Y, Possum
- Y, Red-capped parrot
- Y, Unclear Evidence of Occupancy
- Y, Welcome swallows



Scale 1:8,500 @ A3 GDA MGA 94 Zone 50

Data Sources
Aerial Imagery: WA Now, Landgate Subscription Imagery
Cadastre, Relief Contours and Roads: Landgate 2017
RIS Road Network: Wain Roads Western Australia 2017
Overview Map: World Topographic map service, ESRI 2012

City of Albany PO Box 484 Albany, WA 6331

Significant Trees with Hollows

Assessor KB & BT	QA Check KK	BT
STATUS	FILE	DATE
FINAL	MSC0137-002	10/12/2018



Table 8: Significant (>500mm DBH) habitat trees with hollows, potential hollows, nests or evidence of fauna activity located within the survey area.

ID Species	DBH (mm)	Northing	Eastings	Hollow Y/N	Location	Dimensions (cm)	Occupant	Fauna activity	Comments	Photo Id
Eucalyptus	(111111)	Northing	Eastillys	1/IN	LUCALIUII	(CIII)	Occupant	raulia activity	Beginnings of small hollow in upper branch 6x6cm; beginnings of hollow in fork	IU
1 marginata	537	6133653.76	566393.75	Υ	Trunk	15x12	Na		of trunk.	1
Eucalyptus										
2 marginata	548	6133647.48	566397.94	N	Trunk	15x12	Termites	Termite mound/nest		2
Eucalyptus					l			Very low levels of bark disturbance around lower		
5 marginata	440	6133629.49	566405.46	Y	Trunk	18x13	Undetermined	edge of hollow	Likely small bird. Too small for Black Cockatoos.	7
Eucalyptus 6 marginata	463	6133637.55	566417.07	V	Trunk	10x12	Undetermined	Very low levels of bark disturbance around lower edge of hollow		8
o marginata								T *		
7 Corymbia calophylla	488	6133637.715	566423.83	N	Na	Na	Na	Large nest in canopy that looks like a raptor nest.	No fresh faecal material or feathers.	9
Allocasuarina 11 fraseriana	453	6133607.284	566458.17	V	Trunk	12x12	Not occupied		Hollow opens all the way thru trunk approx. 70cm deep. Possible <i>Falsistrellis</i> hollow.	10
Allocasuarina	400	0133007.204	300430.17	T	TTUTIK	12X12	Not occupied		HOHOW.	10
15 fraseriana	587	6133604.42	566480.99	Y	Branch	5x7	Not occupied	No scratching or chewing		12
10 Indooriand	001	0100004.42	000400.00	'	Dianon	OAT	140t occupied	The solutioning of one-wing	Large branch junction is beginning to form a hollow. Good potential for large	12
17 Corymbia calophylla	969	6133607.95	566488.08	N	Na	Na	Na	Na	hollow.	
Allocasuarina										
23 fraseriana	803	6133573.15	566562.71	N	Na	Na	Na	Na	Hollow butt.	13
26 Corymbia calophylla	830	6133553	566602.32	N	Na	Na	Na	Na	Large upper trunk and branches have good hollow forming potential.	
Eucalyptus									V 11	
49 marginata	962	6133995.374	567528.14	Υ	Branch	15x15	Not occupied	Small amount of scratching	Shallow hollow; small hollow in branch forming as well.	22
Eucalyptus								Fresh chewing around entrance consistent with		
55 marginata	1357	6134059.876	567565.19	Υ	Branch	5x4	Bird	nesting activity.	Too small for Black Cockatoo.	24
Eucalyptus	744	0404040405	507500 44		<u>-</u> .		Not currently		T	0.5
57 marginata	714	6134046.425	567538.41	Y	Trunk	3x2	occupied	No scratching	Tiny hollow.	25
Eucalyptus 76 marginata	601	6133984.898	567475.07	N	Na	Na	Na	Stick nest, fresh faecal material and black feather	3 nests all close to each other. Magpies with juveniles calling from nearby	29
Eucalyptus	001	0133904.090	307473.07	IN	iva	INA	ING	Large stick nest high in canopy. Lots of fresh faecal	area.	23
79 marginata	680	6133972.03	567494.90	N	Na	Na	Na	material. Raptor-like		30
Eucalyptus	000	0100012.00	007.101.00	· ` ·	110	110	110	material reptor into		
85 marginata	604	6133943.376	567434.87	N	Na	Na	Na	Possum scratching		31
Eucalyptus										
86 marginata	572	6133940.983	567435.59	N	Na	Na	Na	Possum scratching		32
Eucalyptus	0.54	0400004.040	507400 054			l	l			
92 marginata	854	6133904.848	567423.351	N	Na	Na	Na	Magpie chick in nest; faecal material;		34
Eucalyptus 95 marginata	971	6133868.178	567415.472	V	Branch	12x9	Not currently	Bark disturbance around hollow entrance. No tracks up to hollow.	Small or medium bird.	35
Eucalyptus	9/1	0133000.170	307413.472	1	DIAIICII	1233	occupied	up to nollow.	Small of medium bird.	33
98 marginata	650	6133829.155	567389.865	N	Na	Na	Na	Magpie chick in nest; faecal material;		37
Eucalyptus		0.0002000		· · ·			Not currently		3 stick nests. One large and 2 medium. All unused. Hollow was checked for	<u> </u>
106 marginata	933	6134381.77	568474.758	Υ	Branch	15x13	occupied	Possum scratching	occupancy. Too shallow.	41
Eucalyptus									Small areas of bark have been stripped in the canopy. Possibly Black	
111 marginata	539	6134354.927	568502.487	N	Na	Na	Na	Na	Cockatoos searching for invertebrates.	42
Eucalyptus		0404044 765	500400 050		<u> </u>		Not currently]		4.5
112 marginata	533	6134341.702	568496.259	Y	Trunk	3x3	occupied	Na	Tiny hollow associated with dry side fissure.	43
Eucobintus							Not ourrontly		Checked. Has historically been used. Angled branch and hollow. Bottom of branch has split and top portion of hollow has become unstable. Bottom of	
Eucalyptus 113 marginata	1098	6134332.801	568507.433	Y	Branch	25x23	Not currently occupied	Disturbed bark leading into hollow	hollow shallow. Has potential to continue forming down into trunk.	196
Eucalyptus	1030	0.10-1002.001	00001.100	 	Dianon	20/20	Not currently	Sister Source routing into Hollow	Tollow challow. Had potential to continue forming down into train.	130
122 marginata	689	6134333.852	568455.075	Υ	Branch	17x7	occupied	Old disturbance around entrance	Too small for Black Cockatoo.	44
Eucalyptus							Not currently			
126 marginata	568	6134307.879	568436.677	Υ	Branch	16x8	occupied	No scratching or chewing	Shallow hollow.	45
Eucalyptus							Red-capped			
127 marginata	602	6134303.73	568451.111	Υ	Trunk	9x8	parrot	Fresh chewing around hollow entrance	Red-capped parrot.	46



Table 8 Continued.

ID	Species	DBH (mm)	Northing	Eastings	Hollow Y/N	Location	Dimensions	Occupant	Fauna activity	Comments	Photo Id
	Eucalyptus	, ,						Welcome			
128	marginata	669	6134302.155	568450.140	Υ	Branch	4x3	swallows	Birds observed	Mudlark nest. 3 juveniles still being fed.	54, 59
	Eucalyptus							Not currently			
132	marginata	514	6134272.048	568463.545	Υ	Trunk	6x8	occupied	Na	Good small-medium bird hollow.	60
4.40	Eucalyptus	000	0404000 50		ļ ,,		10 -		Fresh chewing around entrance consistent with	T	0.5
149	marginata	669	6134363.58	568418.221	Y	Branch	12x7	Bird	medium bird.	Too small for Black Cockatoo.	65
156	Eucalyptus	652	6134313.678	568374.098	\ \ \	Butt	7x4	Feral Bees	Bees observed		66
130	marginata Eucalyptus	002	0134313.070	300374.090	T	Dull	/ X4	relai bees	Old nest remnants this season. Possible Wattlebird		00
158	marginata	736	6134288.683	568373.734	Y	Trunk	43x46		feathers	Checked. Shallow. Has potential to develop into Black Cockatoo hollow.	67
100	Eucalyptus	700	0104200.000	000070.704		TTOTIK	40,40		loutions	Checked. Challow. The potential to develop into Black Cockatoo hollow.	- 07
161	marginata	592	6134266.179	568377.378	l N	Na	Na	Na	Fresh feeding on jarrah nuts		68
101	Eucalyptus						- 100		g en jament det		
166	marginata	389	6134266.785	568425.820	Υ	Trunk	9x6	Bird	Fresh chewing around entrance	Top and side entry into hollow.	70, 71
	Eucalyptus							Not currently	Ĭ.		
177	marginata	1004	6133957.808	568019.393	Υ	Branch	5x6	occupied	No scratching or chewing	Branch has small diameter. Potentially suitable for small bird or mammal.	72
188	Corymbia calophylla	861	6133929.747	567973.993	Υ	Trunk	4x4	Small bird	Fresh chewing around entrance	Small hollow.	73
228	Corymbia calophylla	627	6133759.988	567867.734	N	Na	Na	Na	Red-tailed Black Cockatoo feeding debris		76
230	Corymbia calophylla	609	6133796.336	567872.650	N	Na	Na	Na	Possum scratching		77
236	Corymbia calophylla	613	6133832.199	567868.691	Υ	Trunk	12x7	Small bird	Fresh chewing around entrance		78
241	Corymbia calophylla	793	6133867.066	567868.846	N	Na	Na	Na	Red-tailed Black Cockatoo feeding debris		80
	,								Red-tailed Black Cockatoo and Baudin's feeding		
256	Corymbia calophylla	572	6133969.756	567875.844	N	Na	Na	Na	debris		87
	Eucalyptus							Not currently	Down feathers and egg remnants in hollow. Old small		
265	marginata	549	6133972.231	567858.074	Υ	Trunk	24x42	occupied	carnivore scat	Recently used.	94
	Eucalyptus										
268	marginata	1131	6133941.597	567869.866	Υ	Branch	14x14	Feral Bees	Bees observed; termite mound in base	Big old tree; good hollow forming potential.	97
000	0	700	0400004.007	507050 045	\		44.45	B	B	Scratching up to hollow; double entrance. Large hollow potentially suitable for	00
269	Corymbia calophylla	766	6133934.997	567859.045	Y	Trunk	14x15	Possum	Possum scratching	Black Cockatoos.	98
270	Corymbia calophylla	538	6133930.236	567864.508	V	Trunk	8x7	Not currently occupied	Fresh chewing around entrance	Small birds; shallow hollow.	99
210	Eucalyptus	550	0133930.230	307004.300	I	HUHK	OX1	occupieu	Fresh chewing around entrance	Stridii birus, stidiiow fioliow.	99
281	marginata	1159	6133847.058	567854.958	Y	Branch	13x12	Possum	Possum scratching	Scratching up to hollow.	88,94
201	Eucalyptus	1100	0100047.000	007004.300		Dianon	TOXTE	1 0000111	1 655GITI 561GIGITIIII	Cordioning up to nonow.	00,04
282	marginata	615	6133830.877	567857.015	Υ	Trunk	13x15	Undetermined	Fresh chewing around entrance	Checked.	102
	Eucalyptus							Not currently	J. S. S. S. S. S. S. S. S. S. S. S. S. S.		1
288	marginata	661	6133765.308	567858.336	Υ	Trunk	28x32	occupied	No scratching or chewing	Shallow hollow.	103
	Eucalyptus										
310	marginata	804	6133914.002	567819.888	Υ	Branch	9x5	Small bird	Fresh chewing around entrance; possum scratching		104
	Eucalyptus							Not currently			
313	marginata	812	6133933.257	567836.044	Y	Trunk	26x34	occupied	Possum scratching	Small carnivore scat and active den at base of this tree.	106
044	Eucalyptus	540	0400000 055	507040450			45.45	Not currently	B		110
314	marginata	518	6133938.657	567843.150	Υ	Trunk	15x15	occupied	Possum scratching	Scratching up to hollow; shallow hollow.	112
210	Eucalyptus	615	6122064 460	567842.312	Y	Trunk	12x5	Not currently	No coratabing or showing		113
319	marginata Eucalyptus	010	6133961.469	30/042.312	T	Trunk	IZXJ	occupied	No scratching or chewing		114,11
321	marginata	554	6133973.872	567844.761	Y	Trunk	25x12		Fresh chewing around entrance; possum scratching	Checked. Remnants of old bee hive; 2 well-formed hollows in trunk.	5
521	Eucalyptus	004	0100010.012	307044.701	<u> </u>	TIGHIN	LUXIL	Not currently	1 10011 Showing around ordinator, possum soratoring	Chooked. Hermidite of old 500 myo, 2 wolf-formed flollows in truth.	+
330	marginata	632	6133937.601	567797.571	Υ	Trunk	16x16	occupied	Possum scratching	Scratching doesn't go all the way to hollow.	117



Table 8 Continued.

ID	Species	DBH (mm)	Northing	Eastings	Hollow Y/N	Location	Dimensions	Occupant	Fauna activity	Comments	Photo Id
טו	Eucalyptus	(111111)	Northing	Easings	I / IN	Location	Difficusions	Not currently	rauna activity	Comments	IU
331	marginata	520	6133928.08	567812.321	Υ	Trunk	12x12	occupied	No scratching or chewing	Shallow hollow.	118
332	Corymbia calophylla	1002	6133929.559	567812.277	Υ	Branch	38x16	Possum	Den beneath tree; possum scratching up to and around hollow	Small carnivore scats. Old; den currently inactive.	120
334	Corymbia calophylla	894	6133919.901	567828.499	Υ	Branch	20x18	Medium bird	Fresh chewing around entrance	Small diameter branch. Large entrance. Too small for Black Cockatoo.	119
	Eucalyptus							Not currently	g and and an an an an an an an an an an an an an		122,12
351	marginata	675	6133889.045	567765.960	Υ	Trunk	18x20	occupied	Fresh chewing around entrance; possum scratching	2 hollows within 2 mod each other. Both potential Black Cockatoo hollows.	3
								Not currently			
352	Corymbia calophylla	526	6133899.584	567778.094	Υ	Trunk	16x11	occupied	Fresh disturbance around entrance		125
356	Corymbia calophylla	612	6133916.019	567793.109	N	Na	Na	Na	Baudin's feeding debris		126
	Eucalyptus							Not currently			127,12
361	marginata	544	6133864.187	567805.042	Υ	Branch	9x8	occupied	No scratching or chewing		8
	Eucalyptus									Additional branch hollow 8x8 with fine scratching up to and into hollow; small	
366	marginata	699	6133849.56	567803.293	Υ	Branch	11x11	Small bird	Fresh chewing around entrance	mammal likely. Possibly arboreal Dasyurid.	129
	Eucalyptus					l		Not currently			
369	marginata	570	6133800.778	567802.620	Υ	Trunk	12x10	occupied	Possum scratching	Shallow hollow.	130
207	Eucalyptus	040	0400000 744	507740.00	\ \ \	T	00.40	Not currently	011	0	400
387	marginata	612	6133863.741	567713.06	Y	Trunk	20x18	occupied	Old nest	Small-med birds.	133
389	Eucalyptus marginata	640	6133842.831	567720.150	V	Branch	26x26	Not currently occupied	Old nest	Potential Black Cockatoo hollow.	134
					I			· ·		Potential Diack Cockatoo Hollow.	
392	Corymbia calophylla	712	6133822.92	567726.642	Υ	Branch	10x12	Small bird	Fresh chewing around entrance		135
200	Eucalyptus	050	0400045 040	507740 070	\ \ \	D I		0 111111	Fort de Consentations		400
393	marginata	652	6133815.819	567746.070	Y	Branch	8x8	Small bird	Fresh chewing around entrance		136
121	Eucalyptus	773	6133783.968	E67640 106	V	Dranah	23x20	Not currently	No coretching or showing	Chimney	139
431	marginata Eucalyptus	113	0133703.900	567642.126	T	Branch	23X2U	occupied	No scratching or chewing	Dead. Additional hollows in nearby limbs; fresh scratching all way up to and	139
445	marginata	856	6134159.281	568703.316	Y	Branch	32x27	Possum	Possum scratching	into hollow.	140
440	Allocasuarina	000	0104103.201	300703.310	<u>'</u>	Diancii	JZAZI	1 0330111	1 055um scratching	Into nonow.	140
447	fraseriana	503	6134556.977	568705.232	N	Na	Na	Na	Sheoak nut feeding debris		141
	Eucalyptus		0101000.011	000100.202		110	110	Not currently	Choose hat locally doblo	Small bird nest this season; an additional hollow in small branch in upper	142,14
458	marginata	648	6135040.494	568684.752	Υ	Trunk	8x4	occupied	Fresh chewing around hollow	canopy.	3
	Eucalyptus							Not currently	· ·		
459	marginata	808	6135029.307	568676.834	Υ	Trunk	7x3	occupied	Fresh chewing around hollow	Small bird nest this season.	144
	Eucalyptus							Not currently		Small amount of fresh chewing around entrance. Additional small hollow in	
476	marginata	764	6134975.031	568536.496	Υ	Trunk	12x3	occupied	Possum scratching	branch looks like it has been used by small birds this season.	150
	Eucalyptus							Not currently			
479	marginata	915	6134979.989	568517.077	Υ	Branch	4x5	occupied	No scratching or chewing		152
400	Eucalyptus	704	0404050400	500500 500				l.,		Large hollow in trunk that has become unusable due to opening in side of tree	153-
482	marginata	761	6134959.102	568520.583	N	Na	Na	Na	Na	associated with hollow butt.	155
485	Eucalyptus marginata	644	6134963.068	568485.175	Y	Branch	24x10	Possum	Possum scratching	Scratching up to and into hollow	156
400	Eucalyptus	044	0134303.000	300403.173		DIGITOR	24x IU	r ussuiii	i ossum scialcining	Scratching up to and into hollow.	100
491	marginata	718	6134933.511	568386.037	Υ	Trunk	7x5	Na	Scratching up to and into hollow	Too small entrance to see into with torch. Possible small dasyurid.	157
701	marginata	7 10	0.10.1000.011	000000.001	<u> </u>	TIMIN	1.70	Not currently	Columnia up to una into nonon	100 Small officiality to 000 into mai toron. I obblid official dubyunu.	107
496	Corymbia calophylla	649	6134897.613	568370.955	Υ	Branch	3x4	occupied	No scratching or chewing	Two upright branches may also have hollows forming.	158
	Eucalyptus							Not currently	<u> </u>	, ,	1
499	marginata	727	6134869.808	568322.723	Υ	Branch	12x9	occupied	No scratching or chewing	Shallow hollow.	160
	Eucalyptus							·			
510	marginata	561	6134807.47	568179.973	N	Na	Na	Na	Possum scratching and scat		161



Table 8 Continued.

		DBH			Hollow						Photo
ID	Species	(mm)	Northing	Eastings	Y/N	Location	Dimensions	Occupant	Fauna activity	Comments	ld
	Eucalyptus							Not currently			
518	marginata	637	6134823.377	568152.735	Υ	Branch	4x4	occupied	No scratching or chewing	Shallow hollow.	162
	Eucalyptus										
525	marginata	660	6134901.376	568323.045	Υ	Trunk	9x12	Feral Bees	Observed	Additional hollow forming higher.	163
	Eucalyptus							Not currently			
527	marginata	584	6134907.943	568334.758	Υ	Branch	12x10	occupied	Fresh chewing around hollow	Some tracks leading up to hollow. Shallow and narrow hollow.	164
	Eucalyptus							Not currently	Small amount of scratching at side of hollow;		
529	marginata	558	6134378.086	567177.523	Υ	Trunk	5x5	occupied	cockatoo feeding debris around base of tree	Small and narrow.	166,67
	Eucalyptus							Not currently			168,16
530	marginata	505	6134385.661	567190.573	Υ	Trunk	8x7	occupied	No scratching or chewing	Spiderwebs across entrance; but chicken sized eggshell on ground.	9
	Eucalyptus							Not currently			170,17
531	marginata	548	6134388.352	567200.137	Υ	Trunk	18x12	occupied	No scratching or chewing	Spiderwebs across entrance.	1
	Eucalyptus							Not currently			
546	marginata	574	6134563.412	567576.047	Υ	Branch	27x12	occupied	Possum scratching	Scratching not into hollow. Looks suitable for Black Cockatoo.	175
	Eucalyptus							Not currently			
547	marginata	790	6134552.962	567574.307	Υ	Trunk	22x6	occupied	Scratching alongside hollow.		172
	Eucalyptus				l						
550	marginata	622	6134543.133	567585.819	Υ	Trunk	9x8	Possum	Possum scratching above and into hollow		173,74
	Eucalyptus				l	l		Not currently			
556	marginata	617	6134579.091	567602.888	Υ	Branch	10x8	occupied	Fresh chewing around hollow	Medium bird has nested here this season.	177
565	Corymbia calophylla	889	6134588.987	567683.281	Υ	Branch	35x32	Feral Bees	Bees observed		178,79
								Not currently			
569	Corymbia calophylla	675	6134626.011	567708.676	Υ	Branch	13x11	occupied	Possum scratching	Scratching around but not up to or into hollow. No bird chewing.	180
	Eucalyptus									Additional hollow in adjoining branch. Slightly larger but no sign of recent	
584	marginata	661	6134674.879	567810.428	Υ	Branch	7x3	Small bird	Fresh chewing around hollow	activity.	181,82
	Eucalyptus							Not currently			
585	marginata	651	6134697.43	567857.248	Υ	Branch	11x10	occupied	No scratching or chewing	Dead branch. Opens out to bottom. Section that is full hollow is very shallow.	183
	Eucalyptus							Not currently			
609	marginata	748	6134682.081	567882.599	Υ	Branch	20x18	occupied	No scratching or chewing	Branch had dropped exposing the hollow. Shallow.	184
• • •	Eucalyptus				l	l					
611	marginata	493	6134672.174	567840.169	Y	Branch	35x30		Scratching alongside hollow.	Potential Black Cockatoo hollow. No signs of recent activity.	185
000	Eucalyptus		0404050040	507404 770	.,	l				Scratching up to and into hollow; dead stag. Chimney hollow; good size for	400
633	marginata	608	6134356.943	567194.770	Υ	Branch	26x26	Possum	Possum scratching	Black Cockatoo.	188
000	Eucalyptus	040	0404007.070	507047.000	.,		05.40	Not currently			400
636	marginata	912	6134367.973	567217.082	Y	Trunk	35x40	occupied	No scratching or chewing	Hollow shallow but has potential to become suitable for Black Cockatoos.	189
0.40	Eucalyptus	4000	0404500 000	507550 400			05.05	Not currently		B 14 11 4 11	400
648	marginata	1096	6134530.202	567559.132	Υ	Branch	35x35	occupied	Scratching alongside hollow.	Dead top. Unstable.	190
670	Eucalyptus	004	6424500 474	EC0240 CEE		Tourselle	2020	Not currently	Old nest removate	Open hallow Most not this second	400
672	marginata	801	6134599.174	568342.655	Υ	Trunk	28x30	occupied	Old nest remnants	Open hollow. Nest not this season.	192
675	Eucalyptus	738	6124950 420	568621.931	Y	Truple	0.40	Not currently	Payana	Large general hollow entrance. Main hollow inside is still quite shallow and	102
675	marginata	138	6134852.132	000021.931	I	Trunk	9x8	occupied	Ravens	narrow. Has good potential to form into a hollow suitable for Black Cockatoos.	193
676	Eucalyptus	961	6134976.565	568583.213	\ \	Dranch	26x18	Doccum	Possum coratehina	Scratching up to and into hollow; dead stag. Side entrance hollow; good size for Black Cockatoo. Too unstable to climb.	104
0/0	marginata	901	0134970.303	000000.213	Y	Branch	203.10	Possum Not currently	Possum scratching	TOT DIACK COCKATOO. TOO UNSTADIE TO CIIIID.	194
677	Eucalyptus	1151	6134888.714	568454.984	Υ	Dranch	22x26	,	No scratching or chewing	Good potential Black Cockatoo hollow.	105
0//	marginata	1101	0134000./14	000404.904	I	Branch	22320	occupied	INO SCIALCINING OF CHEWING	Good potential black Cockator notion.	195





Figure 15: Significant habitat trees with hollows or evidence of fauna activity within the survey area.



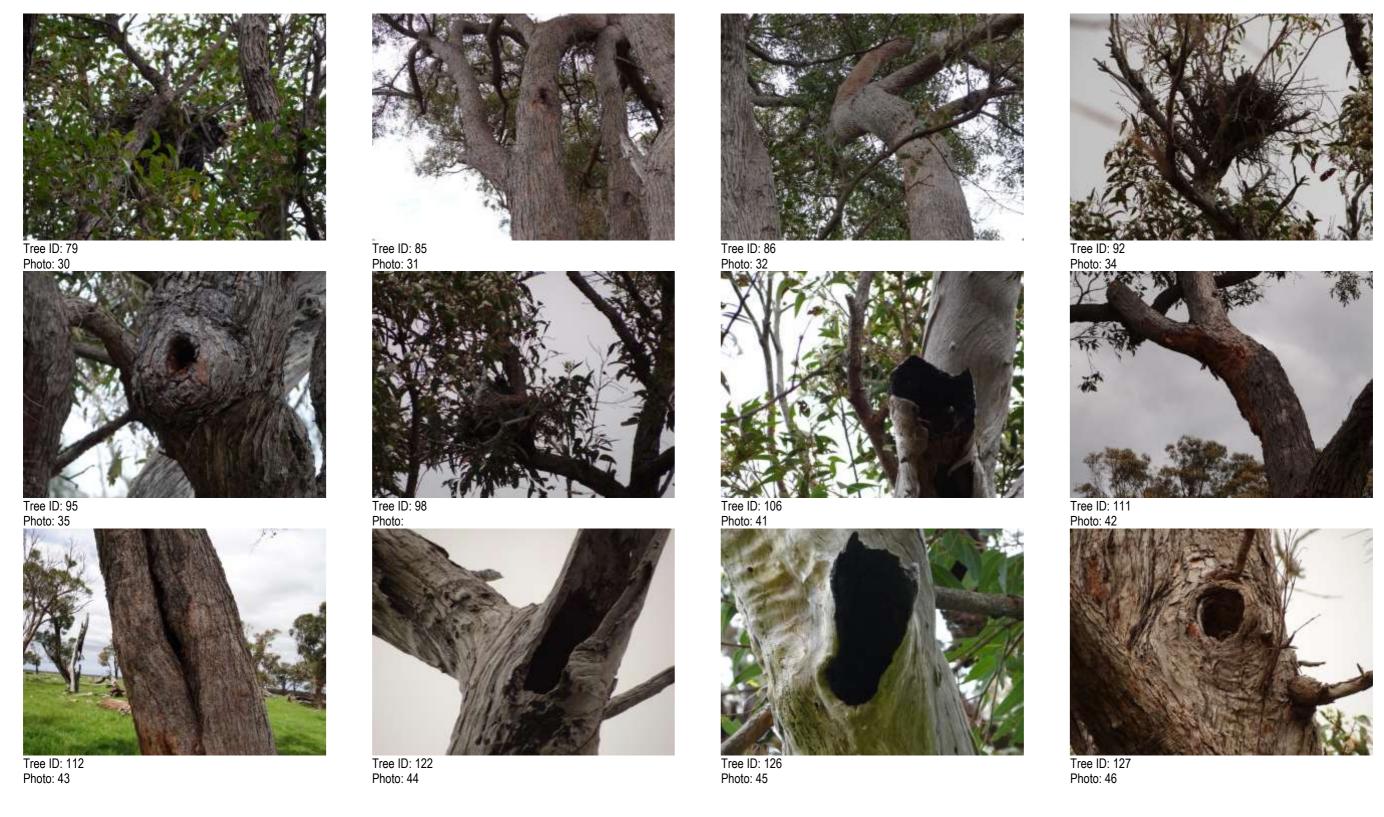


Figure 15 Continued.



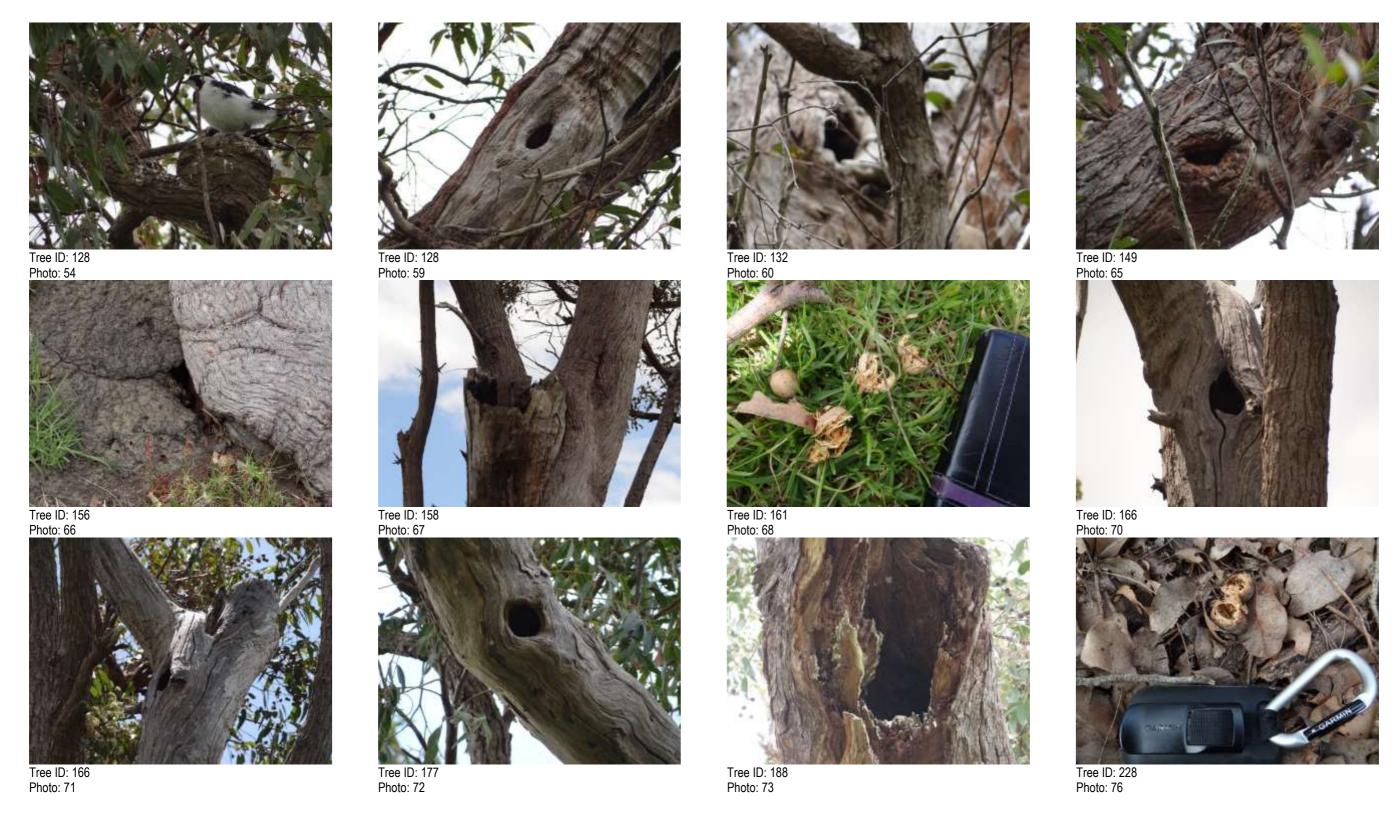


Figure 15 Continued.

51





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Figure 15 Continued.





Figure 15 Continued.





Figure 15 Continued.





Figure 15 Continued.





Figure 15 Continued.



5. Summary

5.1. Vegetation, Threatened and Priority Flora and Ecological Communities

The scope for this survey was to provide the client with information on flora and vegetation types present and any potential threatened flora species or TECs present within the survey area. The survey area is comprised of six vegetation types. Of these six vegetation types three are associated with the Marbellup Flats, which is a South Coast Significant Wetland.

A total of 141 species were identified during the survey including 123 native and 18 introduced species. As some of the threatened species were not in their flowering period a risk assessment was carried out on the likelihood of the species presence, with those deemed unlikely to occur in the area due to unsuitable habitat (e.g. soil types, vegetation density etc). Of the 17 DRF and 41 Priority species potentially occurring in the area, none were found to be present. Based on the existing concept design the remnant vegetation areas will not be underdoing any development.

The vegetation complexes identified within the survey area do not meet the key diagnostic features of the two TECs potentially occurring in the area. As there were no threatened flora of TECs identified within the survey area, there are no constraints to threatened species subject to the *Wildlife Conservation Act 1950*.

Remnant vegetation condition within the survey area ranged from Completely Degraded to Pristine. Stands of isolated paddock trees within existing agricultural areas have been classified as Completely Degraded. Vegetation within the road reserves are both Excellent and Very Good. The majority of the vegetation in the western remnant is Pristine, and vegetation surrounding and within the creekline is Pristine and Very Good.

5.2. Fauna (including threatened)

The scope for this survey was to provide the client with information on fauna (including threatened) within the survey area and likelihood of habitat utilisation. The potential species list (Table 7) outlines presence / absence of species and outlines species that are unlikely to be present due to lack of suitable habitat (Table 7). The overall value of the habitat of the survey area is considered as high, due to the types of vegetation present and the associated fauna habitat, local and regional connectivity and for supporting both known and potential habitat values for conservation significant fauna species.

A total of 40 species were detected over 44 survey hours of these three introduced species were detected throughout the survey; *Felis catus* (Cat), *Vulpes Vulpes* (Red Fox) and *Oryctolagus cuniculus* (Rabbit). There is a high level of fox activity across the site, which may be a limiting factor to the presence of some mammal species. There was a high level of non-threatened bird activity throughout the site as evidenced though the number of species (27) observed. Multiple nests and hollows for non-threatened bird species such as: *Cracticus tibicen* (Australian Magpie), *Eolophus roseicapillus* (Galah), *Grallina cyanoleuca* (Magpie Lark) and *Purpureicephalus spurius* (Red Capped Parrot) were detected throughout the site. The subject site also provides suitable habitat for *Macropus fuliginosus* (Western Grey Kangaroo), *Rattus fuscipes* (Bush Rat) and *Trichosurus vulpecula* (Brushtail Possum). Multiple hollows likely being utilised by *Trichosurus vulpecula* were identified across the survey area.

Threatened species found within the survey area include *Calyptorhynchus banksii subsp. naso* (Forest Red-tailed Black Cockatoo), *Calyptorhynchus baudinii* (Baudin's Cockatoo), *Isoodon obesulus fusciventer* (Quenda), *and Notamacropus irma* (Brush Wallaby). The most important habitats for these species are the creek line vegetation, the surrounding remnant vegetation associated with the creek (situated along the southern boundary) and the roadside vegetation along the northern boundary. This is evident through the identification of runnels, scats, diggings, significant tress with hollows and Black Cockatoo feed signs. There was some anecdotal evidence of activity in the western remnant vegetation for *Isoodon obesulus fusciventer*, however activity levels were not significantly high. The creek system holds high habitat value for *Isoodon obesulus fusciventer*, and *Notamacropus Irma*.

Potential habitat for threatened species within the survey area includes all remnant vegetation within the site, the creek system and the larger stands of paddock trees throughout the paddock areas. There is a high level of fauna activity in vegetation surrounding the creek line from both threatened and non-threatened fauna species as well as the highest occurrence of significant trees that contain hollows. This indicates that the area contains highly attractive habitat for fauna.



There is suitable habitat for *Galaxiella munda* (Western Mud Minnow) and *Galaxiella nigrostriatal* (Black-stripe Minnow) and *Lepidogalaxias salamandroides* (Salamanderfish) within the creek system. If any development or habitat modification in the creek area is proposed in the future, a targeted trapping survey would need to be undertaken to identify the occurrence of these species.

Under the definitions defined in the Black Cockatoo Referral Guidelines (DSEWPaC, 2012) individual trees of *Eucalyptus marginata, Corymbia calophylla, Eucalyptus staeri, Allocasuarina fraseriana* could be considered potential breeding, roosting and foraging trees. The vegetation throughout the survey area contained potential feed tree species for each of the three Black Cockatoos, including: *Eucalyptus marginata, Corymbia calophylla, Eucalyptus staeri, Allocasuarina fraseriana* and other Proteaceous species (DoE; 2017*b,* 2017*c,* 2017*d*).

The southern pocket of Jarrah / Marri remnant vegetation had the highest occurrences of *Calyptorhynchus banksii subsp. naso* and *Calyptorhynchus baudinii*, feeding signs. The majority of feeding evidence consisted of *Corymbia calophylla* nuts. As the number of significant Black Cockatoo feeding sites across the survey area was relatively low this indicates that although the site contains potential high value foraging habitat for the three species it is currently not a favoured feeding area. The presence of significant feeding signs in the remnant vegetation in the south appears to indicate this area is anecdotally more attractive for food than the other vegetated areas. Clearing of trees is not recommended and significant trees that contain active hollows or future Black Cockatoo hollows should be retained.

The vegetation types / wildlife habitat present within the survey area are well represented locally and in nearby reserves. The Jarrah / Marri dominated woodland and forest present are one of the most abundant habitat types present within the ARVS survey area, providing a significant proportion of wildlife habitat. The *Homalospermum* and *Callistemon* dominated thickets present with the survey area are not as common at a regional level based on ARVS mapping. However, these habitat types are well represented in surrounding remnant vegetation and nearby reserves such as the Down Road Nature Reserve.



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7. Appendices

Appendix A – Survey Area and Current Proposed Concept design

Appendix B – Database Searches

Appendix C - Relevé Datasheets

Appendix D – Significant Trees

Appendix A

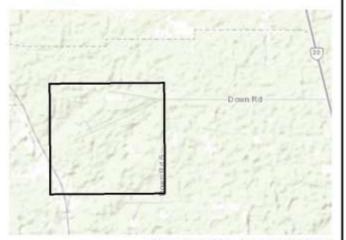
Survey Area and Current Proposed Concept design





29 Hercules Crescent Albany, WA 6330 Australia

Tel: 08 9842 1575 Fax: 08 9842 1575



Overview Map Scale 1:100,000

Legend

Subject Site

Cadastre 5m Contours

Scale 1:8,500 @ A3 GDA MGA 94 Zone 50

Data Sources
Aerial Imagery: WA Now, Landgate Subscription Imagery
Cadastre, Relief Contours and Roads: Landgate 2017
RIS Road Network: Main Roads Western Australia 2017
Overview Map: World Topographic map service, ESRI 2012

City of Albany C/o Matt Thompson PO Box 484 Albany, WA 6331

Survey Area

Assessor	QA Check KK	BT	
STATUS FINAL	FILE MSC0137-002	26/11/2018	





Appendix B

Database Searches



NatureMap Flora Species Report 15Km

Created By Guest user on 19/10/2018

Current Names Only Yes
Core Datasets Only Yes

Method 'By Line'

Vertices 34° 55' 51" S,117° 44' 06" E 34° 55' 28" S,117° 45' 08" E 34° 56' 07" S,117° 45' 08" E 34° 56'

Group By 24" S,117° 43' 39" E 34° 56' 06" S,117° 43' 29" E 34° 55' 51" S,117° 44' 09" E

Family

Family	Species	Records
Acanthizidae	8	1520
Accipitridae	14	376
Acrobolbaceae	1 4	5
Actinopodidae Aegothelidae	1	20 9
Aeshnidae	i	2
Agamidae	1	1
Agapanthaceae	1	2
Aizoaceae	1	1
Alariaceae	1	1
Alliaceae	1 2	1
Amaranthaceae Amaryllidaceae	1	2
Amphisopodidae	1	1
Anapidae	1	2
Anarthriaceae	6	36
Anatidae	13	836
Ancylidae	1	3
Anhingidae	1	14
Anthracoideaceae Apiaceae	1 10	1 47
Apocynaceae	1	1
Apodidae	i	2
Aracanidae	3	3
Araceae	2	3
Araliaceae	7	12
Araneidae	6	55
Archaeidae	1	20
Ardeidae Argiolestidae	7 1	285 2
Arkyidae	2	3
Artamidae	2	105
Asparagaceae	26	82
Aspleniaceae	1	4
Asteraceae	40	61
Atherinidae	2	2
Atrichornithidae	1	1
Baetidae Balaenopteridae	1 1	2
Bathysauridae	1	5
Belonidae	1	15
Berycidae	1	
Boidae	1	4
Boraginaceae	2	2
Boryaceae	2	3
Bothriuridae	<u>1</u>	3
Brassicaceae	7 3	9
Bryaceae Burramyidae	3 1	5
Cacatuidae	1	112
Caddidae	i	3
Caenidae	1	15
Callanthiidae	1	2
Callionymidae	1	1
Campanulaceae	7	23
Campephagidae	1	236
Candelariaceae Canidae	4 1	€
Caprifoliaceae	2	2
Caprimulgidae	1	1
Carangidae	3	Ę
Carcharhinidae	2	2
Caryophyllaceae	5	7
Casuariidae	1	6
Casuarinaceae	2	(
Caulerpaceae	1	1
Ceinidae Centrolepidaceae	1 8	10 20
Centrolepidaceae Cephalotaceae	0	2(7
Cephaloziellaceae	1	1
Ceratiidae	1	
Ceratopogonidae	1	ç
Charadriidae	8	82
Cheilodactylidae	1	1
Cheloniidae	1	1
Cheluidae Chenopodiaceae	1 5	5





ping Western Australia's biodiversity		
Chernetidae	1	1
Chironemidae	2	2
Chironomidae	3	67
Cladoniaceae Clinidae	16	40
Clupeidae	3 2	5 7
Coccocarpiaceae	1	1
Coenagrionidae	1	5
Colchicaceae Columbidae	2 5	7 515
Congiopodidae	1	1
Congridae	1	1
Convolvulaceae	1	1
Cordulidae	1	1
Corixidae Cortinariaceae	1 1	7 1
Corvidae	2	553
Cracticidae	4	690
Cuculidae	4	158
Culicidae Cupressaceae	1 1	3 1
Cyperaceae	60	164
Cyprididae	2	5
Cypridopsidae	1	4
Dasyatidae Dasyornithidae	1 1	1 1
Dasypogonaceae	5	23
Dasyuridae	5	27
Delphinidae	2	4
Dennstaedtiaceae Desidae	1 3	2 4
Desidae Dicaeidae	3 1	1
Dicranaceae	3	7
Dicruridae	4	1299
Dilleniaceae Dinolestidae	16 1	36 2
Dinolestidae Diodontidae	2	4
Diomedeidae	2	2
Droseraceae	25	49
Dugesiidae	1	1
Dytiscidae Echeneidae	1 1	17 1
Ecnomidae	i	14
Elaeocarpaceae	7	31
Elaphomycetaceae	2	2
Elapidae Elopidae	7 1	23 1
Empididae	1	1
Engraulidae	1	7
Ephydridae Ericaceae	1 50	1 305
Estrilidae	1	295
Euphorbiaceae	7	14
Exocoetidae	.1	. 1
Fabaceae Falconidae	136 8	489 116
Fissidentaceae	1	1
Funariaceae	1	2
Galaxiidae	4	28
Garypidae Garypinidae	1 1	1 1
Gekkonidae	1	23
Gelastocoridae	1	2
Gelidiaceae	1	2
Gempylidae Gentianaceae	1 3	1
Geotriidae	1	3
Geraniaceae	3	6
Gerreidae	1	2
Girellidae Glossiphoniidae	1 1	1
Gnaphosidae	1	1
Gnathanacanthidae	1	1
Gobiidae Gomphidae	3 1	7 4
Goodeniaceae	15	67
Gordiidae	1	1
Graphidaceae	1	3
Gripopterygidae Gyrinidae	1 1	4 2
Gyrostemonaceae	1	2
Haematopodidae	2	22
Haemodoraceae	16	50
Halcyonidae Halimedaceae	3 1	468 1
Haloragaceae	7	10
Hebridae	1	1
Hemerocallidaceae	10	25
Hemicorduliidae Heterodontidae	1 1	5 3
Hirundinidae	3	527
Hydatellaceae	1	7
Hydrahidae Hydrahidae	1	1
Hydrobiosidae Hydrometridae	1 1	1
Hydrophilidae	1	12
Hydropsychidae	1	8
Hydroptilidae Hylidae	1 2	3 8
Hylidae Hypnidae	1	2
Hyriidae	1	1
Icmadophilaceae	1	1
Idiopidae Iridaceae	1 18	4 29
Istiophoridae	1	1





ping Western Australia's biodiversity		
Iulomorphidae	2	19
Ixodidae	1	1
Juncaceae	8	21
Juncaginaceae	1	1 1
Kyphosidae Labridae	5	13
Lamiaceae	6	15
Lamnidae	1	1
Lamponidae	5	12
Laridae Lauraceae	6 6	158 18
Lecanoraceae	4	5
Lecideaceae	2	2
Lentibulariaceae	3	7
Lepidogalaxiidae	1	1
Lepidoziaceae	1	2
Leporidae Leptoceridae	1	1 16
Leptophlebiidae	1	3
Liagoraceae	1	1
Libellulidae	1	2
Lichinaceae	1	1
Limnodynastidae Linaceae	2 2	59 2
Lindsaeaceae	1	4
Lobariaceae	1	2
Loganiaceae	6	23
Lophocoleaceae	2	11
Lophotidae	1	1
Lycandiagon	1	1 4
Lycopodiaceae Lycosidae	5	30
Macropodidae	3	9
Maluridae	5	961
Malvaceae	9	25
Megalariaceae	1	2
Melanostomiidae Melinhagidae	1 12	1 1735
Meliphagidae Menyanthaceae	3	1735
Mesophelliaceae	1	2
Micropholcommatidae	2	3
Mimetidae	1	1
Miturgidae	1	1
Molidae	1	6 1
Molossidae Monacanthidae	1 13	23
Monoscutidae	1	3
Moridae	2	3
Motacillidae	2	4
Mugilidae	1	1
Mullidae	1	1
Muraenidae Muridae	2 5	2 75
Mycoblastaceae	2	2
Myobatrachidae	6	75
Myrtaceae	83	361
Nannopercidae	2	22
Nemesiidae	1	84
Neobalaenidae Neosebastidae	1 1	1 2
Neosittidae	2	22
Nomeidae	1	1
Notonectidae	1	2
Odacidae	2	2
Odontaspididae	1	1
Olacaceae Oligochaeta	2	6 22
Onagraceae	2	6
Ophichthidae	2	8
Oplegnathidae	1	1
Orchidaceae	92	216
Orectolobidae	2	2
Orobanchaceae Orsolobidae	3 2	6 48
Orthotrichaceae	1	40
Ostraciidae	1	1
Otariidae	3	4
Otididae	1	4
Oxalidaceae	2	3
Pachycephalidae Palaemonidae	7 1	395
Pannariaceae	2	7 5
Papaveraceae	2	3
Paradoxosomatidae	1	9
Pararchaeidae	1	1
Parascylliidae	1	1
Parastacidae Pardalotidae	4 4	34
Parmeliaceae	23	182 51
Passeridae	1	7
Pataecidae	1	1
Pegasidae	1	2
Pelecanidae	1	150
Pelecanoididae	1	1
Pempheridae Pentacerotidae	1	1 1
Periacerolidae Peramelidae	1	35
Percichthyidae	4	43
Percidae	1	1
Peronosporaceae	1	46
Perthidae	1	11
Pertusariaceae Petroicidae	1 5	1 372
Petroicidae Phalacrocoracidae	5 5	372 193
Phalangeridae	1	3
•		







ping Western Australia's biodiversity		
Phasianidae	4	37
Philydraceae	1	1
Phreatoicidae	1 4	1 7
Phyllanthaceae Physciaceae	2	2
Physeteridae	1	6
Physidae	1	3
Phytolaccaceae	1 1	2 1
Pinguipedidae Pittosporaceae	6	51
Planorbidae	1	2
Plantaginaceae	7	8
Platycephalidae	1 1	1 1
Plesiopidae Pleuronectidae	1	1
Plotosidae	1	1
Poaceae	52	85
Podargidae Podicipedidae	2 4	18 68
Poeciliidae	1	2
Polycentropodidae	1	1
Polygalaceae	8	25
Polygonaceae	6 1	12 1
Pomatostomidae Potamogetonaceae	1	1
Potoroidae	1	3
Pottiaceae	3	7
Primulaceae	3	6
Pristiophoridae Procellariidae	1 4	1 6
Prodidomidae	2	3
Proteaceae	105	612
Pseudocheiridae	1	176
Psittacidae Psittaculidae	15 1	1700 1
Pteridaceae	1	1
Pygopodidae	2	5
Pyralidae	1	1
Racopilaceae	1 1	1 1
Rajidae Rallidae	11	213
Ramalinaceae	2	2
Ranunculaceae	2	4
Recurvirostridae	3	28
Resedaceae Restionaceae	1 31	1 130
Rhamnaceae	4	12
Rhinobatidae	1	1
Rhizocarpaceae	1	1
Rosaceae Rubiaceae	2 2	6 7
Russulaceae	1	2
Rutaceae	21	118
Santalaceae	9	31
Sapindaceae	1	7
Scincidae Sciomyzidae	11 1	69 1
Scolopacidae	10	44
Scolopendridae	2	10
Scomberesocidae	1 3	1
Scombridae Scorpididae	3 1	3 2
Scrophulariaceae	1	1
Scyliorhinidae	2	3
Sebastidae	1	1
Selaginellaceae Sematophyllaceae	1 1	1 5
Serranidae	4	6
Sillaginidae	2	31
Simuliidae	1	14
Siphonocladaceae Siphonotidae	1 1	2 1
Solanaceae	4	4
Soleidae	3	3
Sparassidae	2	5
Sphaeriidae Spheniscidae	1 1	1 19
Sphyraenidae	1	19
Sphyrnidae	1	1
Stereocaulaceae	1	1
Stratiomyidae Sturnidae	1 2	2
Stylidiaceae	38	5 154
Sulidae	1	6
Sylviidae	4	51
Syngnathidae Synodontidae	7 2	36 2
Synthemistidae	1	2
Talitridae	1	1
Tarsipedidae	1	64
Telephlebiidae Teloschistaceae	1 7	5 10
Tetragnathidae	2	2
Tetraodontidae	3	3
Tetrarogidae	1	2
Threskiornithidae Thuidiaceae	3 2	239 3
Thuldiaceae Thylacomyidae	1	1
Thymelaeaceae	12	47
Tipulidae	1	10
Triakidae Trialidae	3 2	5 7
Triglidae Tripterygiidae	1	6
Tripleryglidae Trombidiformes	1	12
Turnicidae	2	15







TOTAL	1778	21267
Zosteropidae	1	496
Zoridae	1	1
Zodariidae	2	16
Ziphiidae	1	1
Zeidae	1	5
Zamiaceae	1	3
Xyridaceae	3	20
Xanthorrhoeaceae	2	2
Vespertilionidae	5	17
Verbenaceae	1	1
Veliidae	1	10
Veliferidae	i	1
Varanidae	1	1
Usneaceae	4	11
Urolophidae	4	10
Urodacidae	1	4
Uranoscopidae	2	4
Tytonidae	3	11







N	iame iD	Species Name	Naturalised	Conservation Code	Endemic To Quei
Acanthizidae					
1.	24260	Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill)			
2.	24261	Acanthiza chrysorrhoa (Yellow-rumped Thornbill)			
3.	24262	Acanthiza inornata (Western Thornbill)			
4.	25530	Gerygone fusca (Western Gerygone)			
5.		Gerygone fusca subsp. fusca (Western Gerygone)			
6.		Sericornis frontalis (White-browed Scrubwren)			
7.		Sericornis frontalis subsp. maculatus (White-browed Scrubwren)			
8.	30948	Smicrornis brevirostris (Weebill)			
Accipitridae					
9.	25535	Accipiter cirrocephalus (Collared Sparrowhawk)			
10.		Accipiter cirrocephalus subsp. cirrocephalus (Collared Sparrowhawk)			
11.		Accipiter fasciatus (Brown Goshawk)			
12.		Accipiter fasciatus subsp. fasciatus (Brown Goshawk)			
13.	24285	Aquila audax (Wedge-tailed Eagle)			
14.	24288	Circus approximans (Swamp Harrier)			
15.	24289	Circus assimilis (Spotted Harrier)			
16.		Elanus axillaris			
17.	24290	Elanus caeruleus subsp. axillaris (Australian Black-shouldered Kite)			
18.		Haliaeetus leucogaster (White-bellied Sea-Eagle)			
19.		Haliastur sphenurus (Whistling Kite)			
20.					
	-1303	Hieraaetus morphnoides (Little Eagle)			
21.		Lophoictinia isura			
22.	48591	Pandion cristatus (Osprey, Eastern Osprey)		IA	
Acrobolbacea	6				
23.		Lethocolea pansa			
20.		Leti locolea parisa			
Actinopodida	е				
24.		Missulena granulosa			
25.		Missulena hoggi			
26.		Missulena occatoria			
20.		Wild State Tild Occasiona			
07		Minordon a tout according			
27.		Missulena torbayensis			
27. Aegothelidae 28.	25544	Missulena torbayensis Aegotheles cristatus (Australian Owlet-nightjar)			
Aegothelidae	25544				
Aegothelidae 28.	25544				
Aegothelidae 28. Aeshnidae 29.	25544	Aegotheles cristatus (Australian Owlet-nightjar)			
Aegothelidae ^{28.} Aeshnidae		Aegotheles cristatus (Australian Owlet-nightjar)			
Aegothelidae 28. Aeshnidae 29. Agamidae 30.	24907	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp.			
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea	24907 3e	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon)			v
Aegothelidae 28. Aeshnidae 29. Agamidae 30.	24907 3e	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp.	Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea	24907 ae 18380	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon)	Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32.	24907 ae 18380	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis			Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32.	24907 3E 18380 2794	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis			Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33.	24907 3E 18380 2794	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface)			Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae	24907 3E 18380 2794	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface)			Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33.	24907 3e 18380 2794 26805	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface)			Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34.	24907 ae 18380 2794 26805	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata	Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea	24907 ae 18380 2794 26805 1375	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion)	Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35.	24907 3e 18380 2794 26805 1375 3e 2655	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed)	Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea	24907 3e 18380 2794 26805 1375 3e 2655	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion)	Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36.	24907 ae	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed)	Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36. Amaryllidacea	24907 3e 18380 2794 26805 1375 3e 2655 2668	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed) Amaranthus powellii (Powell's Amaranth)	Y Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36.	24907 3e 18380 2794 26805 1375 3e 2655 2668	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed)	Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36. Amaryllidacea 37.	24907 3e 18380 2794 26805 1375 ae 2655 2668 3e 44496	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed) Amaranthus powellii (Powell's Amaranth)	Y Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36. Amaryllidacea 37. Amphisopodic 38.	24907 3e 18380 2794 26805 1375 ae 2655 2668 3e 44496	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed) Amaranthus powellii (Powell's Amaranth) Narcissus tazetta subsp. italicus	Y Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36. Amaryllidacea 37. Amphisopodic 38. Anapidae	24907 3e 18380 2794 26805 1375 ae 2655 2668 3e 44496	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumblewed) Amaranthus powellii (Powell's Amaranth) Narcissus tazetta subsp. italicus Amphisopodidae sp.	Y Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36. Amaryllidacea 37. Amphisopodic 38.	24907 3e 18380 2794 26805 1375 ae 2655 2668 3e 44496	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed) Amaranthus powellii (Powell's Amaranth) Narcissus tazetta subsp. italicus	Y Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36. Amaryllidacea 37. Amphisopodia 38. Anapidae 39.	24907 ae	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumblewed) Amaranthus powellii (Powell's Amaranth) Narcissus tazetta subsp. italicus Amphisopodidae sp.	Y Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36. Amaryllidacea 37. Amphisopodia 38. Anapidae 39. Anarthriaceae	24907 18380 2794 26805 1375 ae 2655 2668 ae 44496 dae	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed) Amaranthus powellii (Powell's Amaranth) Narcissus tazetta subsp. italicus Amphisopodidae sp. Chasmocephalon flinders	Y Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36. Amaryllidacea 37. Amphisopodia 38. Anapidae 39. Anarthriaceae 40.	24907 ae	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed) Amaranthus powellii (Powell's Amaranth) Narcissus tazetta subsp. italicus Amphisopodidae sp. Chasmocephalon flinders Anarthria gracilis	Y Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36. Amaryllidacea 37. Amphisopodia 38. Anapidae 39. Anarthriaceae 40. 41.	24907 ae	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed) Amaranthus powellii (Powell's Amaranth) Narcissus tazetta subsp. italicus Amphisopodidae sp. Chasmocephalon flinders Anarthria gracilis Anarthria laevis	Y Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 33. Alliaceae 34. Amaranthacea 35. 36. Amaryllidacea 37. Amphisopodia 38. Anapidae 39. Anarthriaceae 40.	24907 ae	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed) Amaranthus powellii (Powell's Amaranth) Narcissus tazetta subsp. italicus Amphisopodidae sp. Chasmocephalon flinders Anarthria gracilis	Y Y Y Y		Y
Aegothelidae 28. Aeshnidae 29. Agamidae 30. Agapanthacea 31. Aizoaceae 32. Alariaceae 34. Amaranthacea 35. 36. Amaryllidacea 37. Amphisopodia 38. Anapidae 39. Anarthriaceae 40. 41.	24907 ae	Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae sp. Pogona minor subsp. minor (Dwarf Bearded Dragon) Agapanthus praecox subsp. orientalis Carpobrotus aequilaterus (Angular Pigface) Ecklonia radiata Allium neapolitanum (Naples Onion) Amaranthus albus (Tumbleweed) Amaranthus powellii (Powell's Amaranth) Narcissus tazetta subsp. italicus Amphisopodidae sp. Chasmocephalon flinders Anarthria gracilis Anarthria laevis	Y Y Y Y		Y







	Name ID	Species Name Naturalised	d Conservation Co	ode ¹ Endemic To Query Area
45.	18049	Lyginia imberbis		7.104
Anatidae				
46.	2/310	Anas castanea (Chestnut Teal)		
47.		Anas gracilis (Grey Teal)		
48.		Anas platyrhynchos (Mallard)		
49.		Anas rhynchotis (Australasian Shoveler)		
50.		Anas rhynchotis subsp. rhynchotis (Australasian Shoveler)		
51.		Anas superciliosa (Pacific Black Duck)		
52.		Aythya australis (Hardhead)		
53.		Biziura lobata (Musk Duck)		
54.		Chenonetta jubata (Australian Wood Duck, Wood Duck)		
55.		Cygnus atratus (Black Swan)		
56.		Malacorhynchus membranaceus (Pink-eared Duck)		
57.		Oxyura australis (Blue-billed Duck)	P4	
58.		Tadorna tadornoides (Australian Shelduck, Mountain Duck)		
		,		
Ancylidae				
59.		Ancylidae sp.		
Anhingidae				
60.	47414	Anhinga novaehollandiae (Australasian Darter)		
		• • • • • • • • • • • • • • • • • • •		
Anthracoidea				
61.	45801	Moreaua evandrae		
Apiaceae				
62.	6203	Actinotus glomeratus		
63.		Actinotus omnifertilis		
64.	6214	Centella asiatica		
65.	6218	Daucus glochidiatus (Australian Carrot)		
66.		Platysace compressa (Tapeworm Plant)		
67.		Platysace filiformis		
68.		Schoenolaena juncea		
69.		Xanthosia rotundifolia (Southern Cross)		
		Xanthosia singuliflora		
	6293			
70. 71.		Xanthosia tasmanica		
70. 71.	19330	Xanthosia tasmanica		
70. 71. Apocynaceae 72. Apodidae	19330 • 6565	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush)		
70. 71. Apocynacea 72.	19330 • 6565	Xanthosia tasmanica	IA	
70. 71. Apocynaceae 72. Apodidae 73.	19330 • 6565	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush)	IA	
70. 71. Apocynaceae 72. Apodidae 73.	19330 • 6565	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush)	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae	19330 • 6565	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift)	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74.	19330 • 6565	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74. 75. 76.	19330 • 6565	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita Caprichthys gymnura	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74. 75. 76. Araceae	19330 6565 25554	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita Caprichthys gymnura Capropygia unistriata	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74. 75. 76. Araceae 77.	19330 6565 25554	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita Caprichthys gymnura Capropygia unistriata Alocasia brisbanensis Y	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74. 75. 76. Araceae	19330 6565 25554	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita Caprichthys gymnura Capropygia unistriata	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74. 75. 76. Araceae 77. 78.	19330 6565 25554	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita Caprichthys gymnura Capropygia unistriata Alocasia brisbanensis Y	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74. 75. 76. Araceae 77. 78.	19330 6565 25554 17659 1049	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita Caprichthys gymnura Capropygia unistriata Alocasia brisbanensis Y	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74. 75. 76. Araceae 77. 78. Araliaceae	19330 6565 25554 17659 1049	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita Caprichthys gymnura Capropygia unistriata Alocasia brisbanensis Y Zantedeschia aethiopica (Arum Lily)	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74. 75. 76. Araceae 77. 78. Araliaceae 79.	19330 6565 25554 17659 1049 18297 6223	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita Caprichthys gymnura Capropygia unistriata Alocasia brisbanensis Y Zantedeschia aethiopica (Arum Lily) Hedera helix Y	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74. 75. 76. Araceae 77. 78. Araliaceae 79. 80.	19330 6565 25554 17659 1049 18297 6223 6226	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita Caprichthys gymnura Capropygia unistriata Alocasia brisbanensis Y Zantedeschia aethiopica (Arum Lily) Hedera helix Hydrocotyle alata	IA	
70. 71. Apocynaceae 72. Apodidae 73. Aracanidae 74. 75. 76. Araceae 77. 78. Araliaceae 79. 80. 81.	19330 6565 25554 17659 1049 18297 6223 6226 6229	Xanthosia tasmanica Alyxia buxifolia (Dysentery Bush) Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracana aurita Caprichthys gymnura Capropygia unistriata Alocasia brisbanensis Y Zantedeschia aethiopica (Arum Lily) Hedera helix Hydrocotyle alata Hydrocotyle callicarpa (Small Pennywort)	IA	
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128. 1351 Thysanotus sparteus 129. 1356 Thysanotus tereiliolius 130. 1357 Thysanotus tereiliolius 31. 61 Asplenium aethiopicum (Forkad Spleenwort) Asteraceae 132. 7851 Asteridea pulverulenia (Common Bristle Dalsy) 133. 7871 Barchyscome ciliaris 133. 7891 Barchyscome ciliaris 134. 7909 Carduus pycnocephalus (Siender Thistle) Y 135. 7939 Conyza bomariensis (Flexideal Fleabane) Y 138. 20074 Conyza bumariensis Y 138. 7945 Culula coronoplola (Waterbutons) Y 139. 1354 Craspedia variabilis Y 140. 7961 Ditrichia graveolens (Stinkwort) Y 141. 7962 Dittrichia viscosa Y 143. 8092 biciliara (Firty Weed, Cats-ear) Y 144. 8093 biciliara saillaris (Foreia avillaris (Foreia avillaris (Foreia avillaris (Foreia avillaris (Foreia avillaris (Foreia avillaris (Forei						
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156. 8622 Reichardia picroides Y Y						.,
	156.	8622	Reichardia picroides	Y		Υ







157.	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quer
		Rhodanthe citrina			Area
158.		Senecio angulatus	Υ		
159.		Senecio elegans (Purple Groundsel)	Y		
160.		Senecio glastifolius	Y		
161.		Senecio minimus (Toothed Fireweed)			
162.		Senecio multicaulis subsp. multicaulis			
163.		Senecio ramosissimus (Auricled Groundsel)			
164.		Senecio vulgaris (Common Groundsel)	Υ		
165.		Sonchus hydrophilus (Native Sowthistle)	'		
166.		Sonchus oleraceus (Common Sowthistle)	Υ		
167.		Symphyotrichum squamatum (Bushy Starwort)	Y		
168.		Taraxacum khatoonae	Y		
169.		Trichocline spathulata (Native Gerbera)	'		
170.		Ursinia anthemoides subsp. anthemoides	Υ		
170.		Vellereophyton dealbatum (White Cudweed)	Y		
171.	0231	vellereophyton dealbatum (white Gudweed)	1		
Atherinidae					
172.		Atherinosoma sp.			
173.		Atherinosoma wallacei			
Atricharnith	idoo				
Atrichornith		Atrichamic clamacaus (Alains Camph hind tiimilut)		-	
174.	∠4358	Atrichornis clamosus (Noisy Scrub-bird, tjimiluk)		Т	
Baetidae					
175.		Baetidae sp.			
Dalaanantan					
Balaenopter		Delegander was been been been been been been been bee		_	
176.	24048	Balaenoptera musculus subsp. brevicauda (Pygmy Blue Whale)		Т	
Bathysaurid	ae				
177.		Saurida tumbil			
Dalanidas					
Belonidae					
178.		??			
Berycidae					
179.		Centroberyx gerrardi			
Boidae					
180.	25240	Morelia spilota subsp. imbricata (Carpet Python)			
Boraginacea	ae				
181.		Echium plantagineum (Paterson's Curse)	Υ		
182.		Halgania anagalloides var. Southern (A.E. Orchard 1609)			
_					
Boryaceae					
102					
183.		Borya nitida (Pincushions)			
183.		Borya nitida (Pincushions) Borya sphaerocephala (Pincushions)			
184.	1273				
184. Bothriuridae	1273	Borya sphaerocephala (Pincushions)			
184. Bothriuridae 185.	1273				
184. Bothriuridae 185. Brassicacea	1273 e	Borya sphaerocephala (Pincushions) Cercophonius sulcatus			
184. Bothriuridae 185. Brassicacea 186.	1273 e ne 2999	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa	Y		
184. Bothriuridae 185. Brassicacea 186. 187.	1273 e e e 2999 2994	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard)	Υ		
184. Bothriuridae 185. Brassicacea 186. 187. 188.	1273 1273 10 2999 2994 3002	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket)	Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189.	1273 100 100 2999 2994 3002 19989	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum	Υ		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190.	1273 2999 2994 3002 19989 3027	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress)	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191.	1273 299 2994 3002 19989 3027 3061	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish)	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190.	1273 299 2994 3002 19989 3027 3061	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress)	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192.	1273 299 2994 3002 19989 3027 3061	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish)	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae	1273 2999 2994 3002 19989 3027 3061 3068	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock)	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193.	1273 2999 2994 3002 19989 3027 3061 3068	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock)	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194.	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock) Ptychostomum angustifolium Rosulabryum albolimbatum	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194. 195.	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424 32426	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock)	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194. 195.	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424 32426	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock) Ptychostomum angustifolium Rosulabryum albolimbatum	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194. 195.	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424 32426	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock) Ptychostomum angustifolium Rosulabryum albolimbatum	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194. 195. Burramyidae 196.	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424 32426	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock) Ptychostomum angustifolium Rosulabryum albolimbatum Rosulabryum campylothecium	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194. 195. Burramyidae 196. Cacatuidae	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424 32426	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock) Ptychostomum angustifolium Rosulabryum albolimbatum Rosulabryum campylothecium Cercartetus concinnus (Western Pygmy-possum, Mundarda)	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194. 195. Burramyidae 196.	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424 32426	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock) Ptychostomum angustifolium Rosulabryum albolimbatum Rosulabryum campylothecium	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194. 195. Burramyidae 196. Cacatuidae	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424 32426	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock) Ptychostomum angustifolium Rosulabryum albolimbatum Rosulabryum campylothecium Cercartetus concinnus (Western Pygmy-possum, Mundarda)	Y Y Y		
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184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194. 195. Burramyidae 196. Cacatuidae 197. Caddidae 198.	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424 32426	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock) Ptychostomum angustifolium Rosulabryum albolimbatum Rosulabryum campylothecium Cercartetus concinnus (Western Pygmy-possum, Mundarda) Eolophus roseicapillus	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194. 195. Burramyidae 196. Cacatuidae 197. Caddidae 198. Caenidae	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424 32426	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock) Ptychostomum angustifolium Rosulabryum albolimbatum Rosulabryum campylothecium Cercartetus concinnus (Western Pygmy-possum, Mundarda) Eolophus roseicapillus Hesperopilio mainae	Y Y Y		
184. Bothriuridae 185. Brassicacea 186. 187. 188. 189. 190. 191. 192. Bryaceae 193. 194. 195. Burramyidae 196. Cacatuidae 197. Caddidae 198.	1273 2999 2994 3002 19989 3027 3061 3068 32417 32424 32426	Borya sphaerocephala (Pincushions) Cercophonius sulcatus Brassica rapa Brassica x juncea (Indian Mustard) Cakile maritima (Sea Rocket) Lepidium didymum Lepidium foliosum (Leafy Peppercress) Raphanus raphanistrum (Wild Radish) Sinapis arvensis (Charlock) Ptychostomum angustifolium Rosulabryum albolimbatum Rosulabryum campylothecium Cercartetus concinnus (Western Pygmy-possum, Mundarda) Eolophus roseicapillus	Y Y Y		







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
200.		Callanthias australis			
Callionymid	ae				
201.		Foetorepus calauropomus			
Campanulac	eae				
202.		Isotoma hypocrateriformis (Woodbridge Poison)			
203.	7399	Isotoma scapigera (Long-scaped Isotome)			
204.	9289	Lobelia anceps (Angled Lobelia)			
205.		Lobelia heterophylla (Wing-seeded Lobelia)			
206.		Lobelia rarifolia			
207.		Lobelia rhombifolia (Tufted Lobelia)			
208.	37440	Monopsis debilis var. depressa	Υ		
Campephag	idae				
209.	25568	Coracina novaehollandiae (Black-faced Cuckoo-shrike)			
Candelariac	eae				
210.	27641	Candelaria concolor			
211.	27642	Candelariella antennaria			
212.		Candelariella sp.			
213.	27644	Candelariella xanthostigma			
Canidae					
214.	24040	Vulpes vulpes (Red Fox)	Υ		
Caprifoliaca					
Caprifoliace 215.		Centranthus ruber subsp. ruber	Υ		
215. 216.		Lonicera japonica (Japanese Honeysuckle)	Y		
		> p = ((•		
Caprimulgid					
217.	24368	Eurostopodus argus (Spotted Nightjar)			
Carangidae					
218.		Naucrates ductor			
219.		Seriola lalandi			
220.		Trachurus declivis			
Carcharhini	dae				
221.		Carcharhinus obscurus			
222.		Prionace glauca			
Caryophylla	ceae				
223.		Petrorhagia dubia	Υ		
224.	15972	Silene gallica var. gallica	Υ		
225.	11803	Silene gallica var. quinquevulnera	Υ		
226.		Spergula arvensis (Corn Spurry)	Y		
227.	2918	Stellaria media (Chickweed)	Υ		
Casuariidae					
228.	24470	Dromaius novaehollandiae (Emu)			
Casuarinace	ae				
229.		Allocasuarina fraseriana (Sheoak, Kondil)			
230.		Allocasuarina humilis (Dwarf Sheoak)			
Caulerpacea					
231.		Caulerpa racemosa			
	20010	,,			
Ceinidae		0.111			
232.		Ceinidae sp.			
Centrolepida	aceae				
233.		Aphelia brizula			
234.		Aphelia cyperoides			
235.		Aphelia sp. Albany (B.G. Briggs 596)			
236.		Centrolepis aristata (Pointed Centrolepis)		P4	
237. 238.		Centrolepis caespitosa Centrolepis glabra (Smooth Centrolepis)		P4	
239.		Centrolepis mutica			
240.		Centrolepis strigosa subsp. strigosa			
Cephalotace		Cephalotus follicularis (Albany Pitcher Plant)			
		Copraiotas Iolliculaiis (Albary Fitchel Fidill)			
Cephaloziell	laceae				
242.		Cephaloziella exiliflora			
Ceratiidae					







N	lame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
243.		Ceratias tentaculatus			
Ceratonogoni	daa				
Ceratopogonio 244.	uae	Ceratopogonidae sp.			
		Coracopogornade sp.			
Charadriidae					
245.		Charadrius leschenaultii (Greater Sand Plover)		IA	
246.		Charadrius ruficapillus (Red-capped Plover)			
247.		Elseyornis melanops (Black-fronted Dotterel)			
248. 249.		Erythrogonys cinctus (Red-kneed Dotterel) Pluvialis fulva (Pacific Golden Plover)		10	
250.		Pluvialis squatarola (Grey Plover)		IA IA	
251.		Thinornis rubricollis (Hooded Plover, Hooded Dotterel)		P4	
252.		Vanellus tricolor (Banded Lapwing)		14	
		(
Cheilodactylic	dae				
253.		Nemadactylus macropterus			
Cheloniidae					
254.	25335	Caretta caretta (Loggerhead Turtle)		T	
Cheluidae					
255.	43380	Chelodina colliei (South-western Snake-necked Turtle)			
		Cholodina dollich (dodah Western Charle Hestica Farato)			
Chenopodiace					
256.		Atriplex prostrata (Hastate Orache)	Υ		
257.		Dysphania pumilio (Clammy Goosefoot)			
258.		Rhagodia baccata (Berry Saltbush)			
259.		Rhagodia baccata subsp. baccata			
260.	2639	Suaeda australis (Seablite)			
Chernetidae					
261.		Nesidiochernes slateri			
Chironemidae					
262.	•	Chironomus goorgianus			
263.		Chironemus georgianus Threpterius maculosus			
203.		Theptenus maculosus			
Chironomidae	•				
264.		Chironominae sp.			
265.		Orthocladiinae sp.			
266.		Tanypodinae sp.			
Cladoniaceae					
267.	27663	Cladia aggregata			
268.		Cladia schizopora			
269.	27671	Cladonia angustata			
270.		Cladonia capitellata			
271.	28205	Cladonia capitellata var. capitellata			
272.	28208	Cladonia cervicornis subsp. verticillata			
273.	27677	Cladonia crispata			
274.	27681	Cladonia glebosa			
275.	27683	Cladonia imbricata			
276.	27684	Cladonia krempelhuberi			
277.	27690	Cladonia praetermissa			
278.	27692	Cladonia rigida			
279.		Cladonia scabriuscula			
280.		Cladonia subradiata			
281.		Notocladonia cochleata			
282.	28071	Thysanothecium scutellatum			
Clinidae					
283.		Cristiceps aurantiacus			
284.		Cristiceps australis			
285.		Heteroclinus roseus			
Clupeidae		Cardinalla lamarra			
286.		Sardinella lemuru?			
287.		Sardinops neopilchardus			
Coccocarpiac 288.		Coccocarpia erythroxili			
		Соссоварів втуппохії			
Coenagrionida	at	Connectionides on			
289.		Coenagrionidae sp.			
Colchicaceae					
290.	12770	Burchardia congesta		_	
				Department	*******







291. Columbidae 292.	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query
	1385	Burchardia multiflora (Dwarf Burchardia)			Alou
292.					
	24399	Columba livia (Domestic Pigeon)	Υ		
293.	24407	Ocyphaps lophotes (Crested Pigeon)			
294.	24409	Phaps chalcoptera (Common Bronzewing)			
295.	25587	Phaps elegans (Brush Bronzewing)			
296.	25590	Streptopelia senegalensis (Laughing Turtle-Dove)	Υ		
Congiopodida	20				
297.	ac	Perryena leucometopon			
		·,			
Congridae					
298.		Scalanago lateralis			
Convolvulace	eae				
299.	13732	Cuscuta campestris (Golden dodder)	Υ		
Corduliidae					
300.		Corduliidae en			
300.		Corduliidae sp.			
Corixidae					
301.		Corixidae sp.			
Cortinariacea	ıe.				
302.		Cortinarius basipurpureus			
Corvidae					
303.		Corvus coronoides (Australian Raven)			
304.	24417	Corvus coronoides subsp. perplexus (Australian Raven)			
Cracticidae					
305.	25595	Cracticus tibicen (Australian Magpie)			
306.	25596	Cracticus torquatus (Grey Butcherbird)			
307.	25597	Strepera versicolor (Grey Currawong)			
308.	24426	Strepera versicolor subsp. plumbea (Grey Currawong)			
Cuculidae					
309.	25509	Cacomantis flabelliformis (Fan-tailed Cuckoo)			
310.		Cacomantis flabelliformis subsp. flabelliformis (Fan-tailed Cuckoo)			
311.		Cacomantis pallidus (Pallid Cuckoo)			
312.		Chrysococcyx lucidus subsp. plagosus (Shining Bronze Cuckoo)			
Culicidae					
313.		Culicidae sp.			
Cupressaceae	е				
314.	97	Callitris roei (Roe's Cypress Pine)			
Cyperaceae					
315.	739	Baumea acuta (Pale Twig-rush)			
316.		Baumea articulata (Jointed Rush)			
317.		Baumea juncea (Bare Twigrush)			
318.		Baumea riparia			
319.		Baumea rubiginosa			
320.		Carex appressa (Tall Sedge)			
321.		Caustis pentandra (Thick Twist Rush)			
322.		Cyathochaeta avenacea			
323.	17618	Cyathochaeta equitans			
324.	783	Cyperus congestus (Dense Flat-sedge)	Υ		
205	815	Cyperus tenellus (Tiny Flatsedge)	Υ		
325.	834	Evandra aristata			
325. 326.	835	Evandra pauciflora			
326.	20216	Ficinia nodosa (Knotted Club Rush)			
326. 327. 328. 329.		Ficinia nodosa (Knotted Club Rush) Gahnia ancistrophylla (Hooked-leaf Saw Sedge)			
326. 327. 328. 329. 330.	899 902	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita			
326. 327. 328. 329. 330. 331.	899 902 907	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita Gahnia trifida (Coast Saw-sedge)			
326. 327. 328. 329. 330. 331. 332.	899 902 907 908	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita Gahnia trifida (Coast Saw-sedge) Gymnoschoenus anceps			
326. 327. 328. 329. 330. 331. 332.	899 902 907 908 20200	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita Gahnia trifida (Coast Saw-sedge) Gymnoschoenus anceps Isolepis cernua var. setiformis			
326. 327. 328. 329. 330. 331. 332. 333. 334.	899 902 907 908 20200 912	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita Gahnia trifida (Coast Saw-sedge) Gymnoschoenus anceps Isolepis cernua var. setiformis Isolepis cyperoides			
326. 327. 328. 329. 330. 331. 332. 333. 334. 335.	899 902 907 908 20200 912 916	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita Gahnia trifida (Coast Saw-sedge) Gymnoschoenus anceps Isolepis cernua var. setiformis Isolepis cyperoides Isolepis inundata (Swamp Club Rush)			
326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336.	899 902 907 908 20200 912 916 917	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita Gahnia trifida (Coast Saw-sedge) Gymnoschoenus anceps Isolepis cernua var. setiformis Isolepis cyperoides Isolepis inundata (Swamp Club Rush) Isolepis marginata (Coarse Club-rush)			
326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337.	899 902 907 908 20200 912 916 917	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita Gahnia trifida (Coast Saw-sedge) Gymnoschoenus anceps Isolepis cernua var. setiformis Isolepis cyperoides Isolepis inundata (Swamp Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush)	Y		
326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338.	899 902 907 908 20200 912 916 917 10831 925	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita Gahnia trifida (Coast Saw-sedge) Gymnoschoenus anceps Isolepis cernua var. setiformis Isolepis cyperoides Isolepis inundata (Swamp Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Lepidosperma angustatum	Y		
326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339.	899 902 907 908 20200 912 916 917 10831 925	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita Gahnia trifida (Coast Saw-sedge) Gymnoschoenus anceps Isolepis cernua var. setiformis Isolepis cyperoides Isolepis inundata (Swamp Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Lepidosperma angustatum Lepidosperma drummondii	Y		
326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338.	899 902 907 908 20200 912 916 917 10831 925 931	Gahnia ancistrophylla (Hooked-leaf Saw Sedge) Gahnia decomposita Gahnia trifida (Coast Saw-sedge) Gymnoschoenus anceps Isolepis cernua var. setiformis Isolepis cyperoides Isolepis inundata (Swamp Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Lepidosperma angustatum	Y		



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
342.	934	Lepidosperma gracile (Slender Sword Sedge)			Alou
343.		Lepidosperma obtusum			
344.		Lepidosperma sp.			
345.	945	Lepidosperma squamatum			
346.	946	Lepidosperma striatum			
347.	953	Mesomelaena graciliceps			
348.	956	Mesomelaena stygia			
349.	957	Mesomelaena tetragona (Semaphore Sedge)			
350.	970	Schoenus acuminatus			
351.	975	Schoenus bifidus			
352.	978	Schoenus brevisetis			
353.	979	Schoenus caespititius			
354.	983	Schoenus cruentus			
355.		Schoenus curvifolius			
356.		Schoenus discifer			
357.		Schoenus efoliatus			
358.		Schoenus laevigatus			
359.		Schoenus lanatus (Woolly Bog-rush)			
360.		Schoenus multiglumis			
361.		Schoenus obtusifolius			
362.		Schoenus plumosus			
363.		Schoenus subbulbosus			
364.		Schoenus subfascicularis			
365.		Schoenus sublateralis			
366. 367.		Schoenus submicrostochuus			
367.		Schoenus submicrostachyus Schoenus tenellus			
369.					
370.		Tetraria capillaris (Hair Sedge) Tetraria octandra			
371.		Tetraria sp. Mt Madden (C.D. Turley 40 BP/897)			
372.		Tricostularia exsul			
373.		Tricostularia neesii			
374.		Tricostularia sp. south coast (R.T. Wills 1423)			
Cyprididae					
Cyprididae					
		Candonocypris novaezelandiae			
375. 376.		Candonocypris novaezelandiae Ilyodromus ellipticus			
375. 376.	laa.				
375. 376. Cypridopsid	lae	Ilyodromus ellipticus			
375. 376. Cypridopsid 377.	lae				
375. 376. Cypridopsid 377. Dasyatidae	lae	Ilyodromus ellipticus Sarscypridopsis aculeata			
375. 376. Cypridopsid 377.	lae	Ilyodromus ellipticus			
375. 376. Cypridopsid 377. Dasyatidae 378.		Ilyodromus ellipticus Sarscypridopsis aculeata			
375. 376. Cypridopsid 377. Dasyatidae	dae	Ilyodromus ellipticus Sarscypridopsis aculeata		Т	
375. 376. Cypridopsid 377. Dasyatidae 378. Dasyornithie	dae 24440	Ilyodromus ellipticus Sarscypridopsis aculeata Dasyatis brevicaudata		Т	
375. 376. Cypridopsid 377. Dasyatidae 378. Dasyornithie 379. Dasypogona	dae 24440 aceae	Ilyodromus ellipticus Sarscypridopsis aculeata Dasyatis brevicaudata Dasyornis longirostris (Western Bristlebird)		Т	
375. 376. Cypridopsid 377. Dasyatidae 378. Dasyornithic 379. Dasypogona 380.	dae 24440 aceae 1212	Ilyodromus ellipticus Sarscypridopsis aculeata Dasyatis brevicaudata Dasyornis longirostris (Western Bristlebird) Baxteria australis			
375. 376. Cypridopsid 377. Dasyatidae 378. Dasyornithie 379. Dasypogona	dae 24440 aceae 1212 1213	Ilyodromus ellipticus Sarscypridopsis aculeata Dasyatis brevicaudata Dasyornis longirostris (Western Bristlebird) Baxteria australis Calectasia cyanea (Blue Tinsel Lily)		T T	
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Dicranaceae					
397.	32335	Campylopus bicolor			
398.		Campylopus bicolor var. bicolor			
399.		Campylopus introflexus	Υ		
Diamonidae					
Dicruridae 400.	24442	Cralling avanglauge (Magnie lark)			
401.		Grallina cyanoleuca (Magpie-lark)			
401.		Myiagra inquieta (Restless Flycatcher)			
403.		Rhipidura albiscapa (Grey Fantail) Rhipidura leucophrys (Willie Wagtail)			
400.	23014	Tanpidara ledeophrys (White Wagian)			
Dilleniaceae					
404.	5108	Hibbertia acerosa (Needle Leaved Guinea Flower)			
405.		Hibbertia amplexicaulis			
406.		Hibbertia cuneiformis (Cutleaf Hibbertia)			
407.		Hibbertia cunninghamii			
408.		Hibbertia depressa			
409.		Hibbertia diamesogenos			
410.		Hibbertia furfuracea			
411.		Hibbertia gracultariifalia			
412. 413.		Hibbertia grossulariifolia Hibbertia inconspicua			
413.		Hibbertia lineata			
414.		Hibbertia microphylla			
416.		Hibbertia pulchra			
417.		Hibbertia pulchra var. crassinervia			
418.		Hibbertia racemosa (Stalked Guinea Flower)			
419.		Hibbertia sp.			
D : 1 (1)		·			
Dinolestidae					
420.		Dinolestes lewini			
Diodontidae					
421.		Allomycterus pilatus			
422.		Diodon nicthemerus			
Diomedeidae					
423.		Diomedea exulans subsp. exulans (Snowy Albatross)		Т	
424.		Thalassarche chlororhynchos (Atlantic Yellow-nosed Albatross)		Т	
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Droseraceae	0004	Durance distance and (Durke Quarter)			
425.		Drosera dichrosepala (Rusty Sundew)			
426. 427.		Drosera enodes Drosera erythrogyne			
428.		Drosera fimbriata (Manypeaks Sundew)		P4	
429.		Drosera glanduligera (Pimpernel Sundew)		F#	
430.		Drosera huegelii (Bold Sundew)			
431.		Drosera intricata			
432.		Drosera leucoblasta (Wheel Sundew)			
433.		Drosera macrantha (Bridal Rainbow)			
434.	3109	Drosera menziesii (Pink Rainbow)			
435.	11853	Drosera menziesii subsp. menziesii			
436.	48710	Drosera micrantha			
437.	3110	Drosera microphylla (Golden Rainbow)			
438.	3111	Drosera modesta (Modest Rainbow)			
439.		Drosera myriantha (Star Rainbow)			
440.		Drosera neesii (Jewel Rainbow)			
441.		Drosera pallida (Pale Rainbow)			
442.		Drosera platypoda (Fan-leaved Sundew)			
443.		Drosera pulchella (Pretty Sundew)			
444.		Drosera ramellosa (Branched Sundew)			
445.		Drosera roseana			
446.	3130	Drosera scorpioides (Shaggy Sundew)			
447. 448.	2424	Drosera sp. Drosera stolonifera (Leafy Sundew)			
448.		Drosera stolorillera (Leary Suridew) Drosera sulphurea (Sulphur-flowered Sundew)			
	0314	Бловога вагрнина (оспрния-номатей оснием)			
Dugesiidae 450.		Dugesiidae sp.			
Dytiscidae 451.		Dytiscidae sp.			
		Dynomical op.			
Echeneidae					







Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised 452. Remora remora **Ecnomidae** 453 Ecnomidae sp. Elaeocarpaceae 4524 Platytheca galioides 454. 455. 4526 Tetratheca affinis 456 4536 Tetratheca hispidissima 457. 4544 Tetratheca setigera 458 4546 Tetratheca virgata 459. 4547 Tremandra diffusa 460. 4548 Tremandra stelligera Elaphomycetaceae 461. 39900 Elaphomyces chlorocarpus 39901 Elaphomyces symeae 462. Elapidae 463. 25251 Echiopsis curta (Bardick) 464. 25250 Elapognathus coronatus (Crowned Snake) 465. 43384 Hydrophis platurus (Yellow-bellied Seasnake) 466 25252 Notechis scutatus (Tiger Snake) 467. 25255 Parasuta nigriceps 468. 25259 Pseudonaja affinis subsp. affinis (Dugite) 469 30818 Rhinoplocephalus bicolor (Square-nosed Snake) **Elopidae** 470. Elops hawaiensis **Empididae** 471. Empididae sp. Engraulidae 472. Engraulis australis **Ephydridae** 473. Ephydridae sp. **Ericaceae** 474. 6295 Acrotriche cordata (Coast Ground Berry) 475. 6301 Andersonia auriculata 476 6306 Andersonia caerulea (Foxtails) 477. 25844 Andersonia caerulea subsp. caerulea 478 19623 Andersonia depressa 479. 6317 Andersonia micrantha 480 6320 Andersonia simplex (Spiked Andersonia) 481. 41737 Andersonia sp. Jamesii (J. Liddelow 84) P4 482 16997 Andersonia sp. Mitchell River (B.G. Hammersley 925) РЗ 483. 6321 Andersonia sprengelioides 484. 6323 Astroloma ciliatum (Candle Cranberry) 485. 6334 Astroloma pallidum (Kick Bush) 486 46733 Brachyloma baxteri 6352 Cosmelia rubra (Spindle Heath) 487. 488. 6355 Leucopogon alternifolius РЗ 489 6358 Leucopogon assimilis 490. 6360 Leucopogon australis (Spiked Beard-heath) 491. 6384 Leucopogon cymbiformis 492. 6385 Leucopogon denticulatus 493. 6387 Leucopogon distans 494 6394 Leucopogon gibbosus 495. 6396 Leucopogon glabellus 496 6399 Leucopogon gracilis 497. 6402 Leucopogon hirsutus 498 40940 Leucopogon obovatus subsp. obovatus 499. 40941 Leucopogon obovatus subsp. revolutus 500 6425 Leucopogon oxycedrus 501. 6427 Leucopogon parviflorus (Coast Beard-heath) 6428 Leucopogon pendulus 502 503 6435 Leucopogon polystachyus 504 6436 Leucopogon propinquus 505 6440 Leucopogon racemulosus 506. 6441 Leucopogon reflexus (Heart-leaf Beard-heath) 507. 10755 Leucopogon rubricaulis 508 14637 Leucopogon sp. Coujinup (M.A. Burgman 1085)







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
509.	34718	Leucopogon sp. Southern Forests (B.G. Hammersley 1000)			
510.	6449	Leucopogon tamariscinus			
511.	6454	Leucopogon verticillatus (Tassel Flower)			
512.	6456	Lysinema ciliatum (Curry Flower)			
513.	6457	Lysinema conspicuum			
514.	6459	Lysinema fimbriatum			
515.	6460	Lysinema lasianthum		P4	
516.	34736	Lysinema pentapetalum			
517.	6464	Needhamiella pumilio			
518.	31931	Sphenotoma capitata			
519.	6467	Sphenotoma dracophylloides			
520.	31952	Sphenotoma gracilis (Swamp Paper-heath)			
521.	31951	Sphenotoma parviflora			
522.	48617	Styphelia sp. Albany (M. Hislop 2218)			
523.	6476	Styphelia tenuiflora (Common Pinheath)			
Estrilidae 524.	24645	Stagonoplaus coulete (Red cored Firetrill)			
524.	24045	Stagonopleura oculata (Red-eared Firetail)			
Euphorbiace	eae				
525.		Amperea ericoides			
526.		Amperea volubilis			
527.		Euphorbia paralias (Sea Spurge)	Υ		
528.		Euphorbia peplus (Petty Spurge)	Υ		
529.		Euphorbia terracina (Geraldton Carnation Weed)	Y		
530.		Monotaxis occidentalis			
531.		Ricinocarpos glaucus			
Exocoetidae		Cypselurus sp.			
Fabaceae					
533.		Acacia alata var. alata			
534.		Acacia applanata			
535.	3239	Acacia biflora			
536.	3247	Acacia browniana			
537.	11731	Acacia browniana var. browniana			
538.	3262	Acacia cochlearis (Rigid Wattle)			
539.	3275	Acacia crassiuscula			
540.	3282	Acacia cyclops (Coastal Wattle)			
541.	17858	Acacia dealbata	Υ		
542.	16975	Acacia decurrens	Υ		
543.	11192	Acacia drummondii subsp. elegans			
544.	3331	Acacia extensa (Wiry Wattle)			
545.	3363	Acacia hastulata			
546.	3383	Acacia incurva			
547.	3413	Acacia leioderma			
548.	3424	Acacia littorea			
549.	17861	Acacia longifolia	Υ		
550.	3428	Acacia luteola			
551.	10955	Acacia melanoxylon	Υ		
552.	3453	Acacia myrtifolia			
553.	3482	Acacia paradoxa (Kangaroo Thorn)	Υ		
554.		Acacia prismifolia		Х	
555.		Acacia pulchella (Prickly Moses)			
556.	15482	Acacia pulchella var. goadbyi			
557.		Acacia pulchella var. pulchella			
558.		Acacia pycnantha (Golden Wattle)	Υ		
559.	3523	Acacia robiniae			
560.		Acacia subcaerulea			
561.		Acacia sulcata			
562.		Acacia sulcata var. sulcata			
563.		Acacia tetragonocarpa			
564.		Acacia uliginosa			
565.		Acacia varia var. varia			
566.		Acacia willdenowiana (Grass Wattle)			
567.		Actus intermedia			
568.		Aotus passerinoides			
569.		Bossiaea aquifolium subsp. aquifolium			
		Bossiaea dentata			
570. 571.		Bossiaea linophylla			
571. 572.		Bossiaea irriopriyila Bossiaea ornata (Broad Leaved Brown Pea)			
312.	3/ 14	Dossided official (Diedu Leaved Diewii r ea)		_	
				GO THE STATE OF TH	******







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
573.		Bossiaea praetermissa			
574. 575.		Bossiaea rufa Callistachus Innocelata (Mannich)			
575. 576.		Callistachys lanceolata (Wonnich) Callistachys sp. south-coast variant (M. Carter 180)			
577.		Chamaecytisus palmensis (Tagasaste)	Υ		
578.	13112	Chorizema aciculare subsp. aciculare			
579.	13113	Chorizema carinatum		P3	
580.		Chorizema diversifolium			
581.		Chorizema glycinifolium Chorizema iliaifalium (Hallu Flama Rea)			
582. 583.		Chorizema ilicifolium (Holly Flame Pea) Chorizema nanum			
584.		Chorizema reticulatum (Showy Flame Pea)			
585.		Chorizema rhombeum			
586.	14586	Chorizema spathulatum			
587.		Chorizema uncinatum			
588.		Daviesia alternifolia			
589. 590.		Daviesia cordata (Bookleaf) Daviesia flexuosa			
591.		Daviesia gracilis			
592.		Daviesia incrassata subsp. incrassata			
593.	3817	Daviesia inflata			
594.		Daviesia lancifolia			
595.		Daviesia spinosissima			
596. 597.		Dipogon lignosus (Dolichos Pea)	Y		
597. 598.		Euchilopsis linearis (Swamp Pea) Eutaxia epacridoides			
599.		Eutaxia myrtifolia			
600.		Eutaxia parvifolia			
601.	3880	Eutaxia virgata			
602.		Gastrolobium bilobum (Heart Leaf Poison)			
603.		Gastrolobium brownii			
604. 605.		Gastrolobium coriaceum Gastrolobium cuneatum			
606.		Gastrolobium runus			
607.		Gastrolobium rubrum			
608.	20500	Gastrolobium sericeum			
609.	3932	Gastrolobium velutinum (Stirling Range Poison)			
610.		Gompholobium capitatum			
611.		Gompholobium confertum Compholobium (nightionum)			
612. 613.		Gompholobium knightianum Gompholobium marginatum			
614.		Gompholobium ovatum			
615.	3954	Gompholobium polymorphum			
616.	3955	Gompholobium preissii			
617.		Gompholobium scabrum			
618.		Gompholobium venustum (Handsome Wedge-pea)			
619. 620.		Gompholobium villosum Hardenbergia comptoniana (Native Wisteria)			
621.		Hovea chorizemifolia (Holly-leaved Hovea)			
622.		Hovea elliptica (Tree Hovea)			
623.	3968	Hovea trisperma (Common Hovea)			
624.		Isotropis cuneifolia (Granny Bonnets)			
625.		Isotropis cuneifolia subsp. cuneifolia			
626. 627.		Jacksonia spinosa Kennedia carinata			
628.		Kennedia coccinea (Coral Vine)			
629.		Kennedia coccinea subsp. calcaria			
630.	37961	Kennedia coccinea subsp. esotera			
631.		Lathyrus tingitanus (Tangier Pea)	Υ		
632.		Latrobea brunonis			
633.		Latrobea diosmifolia			
634. 635.		Latrobea genistoides Latrobea sp. South Coast (A.M. Ashby 1949)			
636.		Latrobea sp. South Coast (A.M. Ashby 1949) Lotus subbiflorus	Y		
637.		Lotus uliginosus (Greater Lotus)	Y		
638.		Medicago lupulina (Black Medic)	Υ		
639.	4079	Medicago polymorpha (Burr Medic)	Υ		
640.		Ornithopus pinnatus (Slender Serradella)	Υ		
641.		Paraserianthes lophantha subsp. lophantha			
642.	4140	Phyllota barbata			







Na	ame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
643.	4155	Psoralea pinnata (African Scurfpea)	Υ		
644.	4164	Pultenaea aspalathoides			
645.	4172	Pultenaea ericifolia			
646.	4181	Pultenaea reticulata			
647.	4186	Pultenaea tenuifolia			
648.	4187	Pultenaea verruculosa			
649.	4200	Sphaerolobium alatum			
650.	17551	Sphaerolobium drummondii			
651.	4202	Sphaerolobium fornicatum			
652.	4204	Sphaerolobium grandiflorum			
653.	20302	Sphaerolobium hygrophilum			
654.	4206	Sphaerolobium macranthum			
655.	4207	Sphaerolobium medium			
656.	4208	Sphaerolobium nudiflorum			
657.	17547	Sphaerolobium pubescens			
658.	17548	Sphaerolobium rostratum			
659.	4211	Sphaerolobium vimineum (Leafless Globe Pea)			
660.		Trifolium campestre (Hop Clover)	Υ		
661.		Trifolium cernuum (Drooping Flower Clover)	Y		
662.		Trifolium dubium (Suckling Clover)	Y		
663.		Trifolium repens (White Clover)	Y		
664.		Trifolium repens var. repens	Y		
665.		Trifolium tomentosum (Woolly Clover)	Y		
666.		Ulex europaeus (Gorse)	Y		
		• • •	Y		
667. 668		Vicia sativa subsp. nigra Viminaria juncaa (Swishbush, Kowada)	f		
668.	4325	Viminaria juncea (Swishbush, Koweda)			
Falconidae					
669.	25621	Falco berigora (Brown Falcon)			
670.	24471	Falco berigora subsp. berigora (Brown Falcon)			
671.	25622	Falco cenchroides (Australian Kestrel, Nankeen Kestrel)			
672.	24472	Falco cenchroides subsp. cenchroides (Australian Kestrel, Nankeen Kestrel)			
673.	25623	Falco longipennis (Australian Hobby)			
		Falco longipennis subsp. longipennis (Australian Hobby)			
675.		Falco peregrinus (Peregrine Falcon)		S	
676.		Falco peregrinus subsp. macropus (Australian Peregrine Falcon)		S	
Fissidentaceae		Fissidens tenellus			
Funariaceae 678.	32370	Funaria hygrometrica			
Galaxiidae		Calavira magulatus			
679.	0.4000	Galaxias maculatus			
680.		Galaxias occidentalis (Western Minnow)		_	
681.		Galaxiella munda (mud minnow, western dwarf galaxias)		Ţ	
682.	34027	Galaxiella nigrostriata (Black-stripe Minnow, black-striped dwarf galaxias)		Т	
Garypidae					
683.		Synsphyronus magnus			
Garypinidae 684.		Protogarypinus giganteus			
Gekkonidae 685.	24980	Christinus marmoratus (Marbled Gecko)			
Gelastocoridae		Gelastocoridae sp.			
Gelidiaceae					
687.	27196	Pterocladia rectangularis			
Gempylidae 688.		Thyrsites atun			
Gentianaceae					
689.	6542	Centaurium tenuiflorum	Υ		
690.	6543	Cicendia filiformis (Slender Cicendia)	Υ		
691.		Schenkia australis			
Geotriidae 692.	34030	Geotria australis (Pouched Lamprey)		P1	
Geraniaceae					
693.	4339	Geranium molle (Dove's Foot Cranesbill)			
				COUNTY OF THE PART	



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
			Y		
694.	4342	Pelargonium australe (Wild Geranium)			
695.	4343	Pelargonium capitatum (Rose Pelargonium)	Υ		
Gerreidae					
696.		Parequula melbournensis			
		•			
Girellidae					
697.		Girella zebra			
Glossiphonii	idae				
698.		Glossiphoniidae sp.			
Gnaphosidae	•				
699.	5	Megamyrmecion penicillatum			Y
033.		meganymesion penicilatan			1
Gnathanacar	nthidae				
700.		Gnathanacanthus goetzeei			
Gobiidae					
701.		Callogobius mucosus			
702.		Favonigobius lateralis			
703.		Pseudogobius olorum			
0					
Gomphidae		O-makida ara			
704.		Gomphidae sp.			
Goodeniacea	ae				
705.	7411	Anthotium humile (Dwarf Anthotium)			
706.	7439	Dampiera fasciculata (Bundled-leaf Dampiera)			
707.	7452	Dampiera leptoclada (Slender-shooted Dampiera)			
708.	7454	Dampiera linearis (Common Dampiera)			
709.	7462	Dampiera pedunculata			
710.		Diaspasis filifolia (Thread-leaved Diaspasis)			
711.		Goodenia filiformis (Thread-leaved Goodenia)			
712.		Goodenia incana (Hoary Goodenia)			
713.		Goodenia leptoclada (Thin-stemmed Goodenia)			
714.		Lechenaultia expansa			
715.		Scaevola globulifera			
716.		Scaevola nitida (Shining Fanflower)			
717.		Scaevola striata (Royal Robe) Scaevola striata var. striata			
718. 719.		Velleia trinervis			
719.	7000	venera uniervis			
Gordiidae					
720.		Gordiidae sp.			
Graphidacea	ie.				
721.		Halegrapha mucronata			
Gripopterygi					
	idae				
722.	idae	Gripopterygidae sp.			
	idae	Gripopterygidae sp.			
	laae	Gripopterygidae sp. Gyrinidae sp.			
Gyrinidae 723.					
Gyrinidae 723. Gyrostemona	aceae	Gyrinidae sp.			
Gyrinidae 723.	aceae				
Gyrinidae 723. Gyrostemona	aceae 2787	Gyrinidae sp.			
Gyrinidae 723. Gyrostemona 724.	aceae 2787 lidae	Gyrinidae sp.			
Gyrinidae 723. Gyrostemon 724. Haematopod	aceae 2787 lidae 25627	Gyrinidae sp. Gyrostemon sheathii			
Gyrinidae 723. Gyrostemona 724. Haematopod 725. 726.	aceae 2787 lidae 25627 24487	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher)			
Gyrinidae 723. Gyrostemona 724. Haematopod 725. 726.	aceae 2787 lidae 25627 24487	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher)			
Gyrinidae 723. Gyrostemone 724. Haematopod 725. 726. Haemodorac	aceae 2787 lidae 25627 24487 :eae	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher)			
Gyrinidae 723. Gyrostemone 724. Haematopod 725. 726. Haemodorac 727.	aceae 2787 lidae 25627 24487 ceae 11931 1407	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens			
Gyrinidae 723. Gyrostemoni 724. Haematopod 725. 726. Haemodorac 727. 728.	aceae 2787 lidae 25627 24487 ceae 11931 1407 1413	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens Anigozanthos flavidus (Tall Kangaroo Paw)			
Gyrinidae 723. Gyrostemona 724. Haematopod 725. 726. Haemodorac 727. 728. 729.	aceae 2787 lidae 25627 24487 ceae 11931 1407 1413 1418	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens Anigozanthos flavidus (Tall Kangaroo Paw) Anigozanthos preissii (Albany Catspaw)			
Gyrinidae 723. Gyrostemoni 724. Haematopod 725. 726. Haemodorac 727. 728. 729. 730.	aceae 2787 lidae 25627 24487 ceae 11931 1407 1413 1418 11826	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens Anigozanthos flavidus (Tall Kangaroo Paw) Anigozanthos preissii (Albany Catspaw) Conostylis aculeata (Prickly Conostylis)		т	
Gyrinidae 723. Gyrostemona 724. Haematopod 725. 726. Haemodorac 727. 728. 729. 730. 731.	aceae 2787 lidae 25627 24487 ceae 11931 1407 1413 1418 11826 1441	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens Anigozanthos flavidus (Tall Kangaroo Paw) Anigozanthos preissii (Albany Catspaw) Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata		т	
Gyrinidae 723. Gyrostemon: 724. Haematopod 725. 726. Haemodorac 727. 728. 729. 730. 731. 732.	aceae 2787 lidae 25627 24487 ceae 11931 1407 1413 1418 11826 1441 1447	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens Anigozanthos flavidus (Tall Kangaroo Paw) Anigozanthos preissii (Albany Catspaw) Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis misera (Grass Conostylis)		т	
Gyrinidae 723. Gyrostemon: 724. Haematopod 725. 726. Haemodorac 727. 728. 729. 730. 731. 732. 733.	aceae 2787 lidae 25627 24487 ceae 11931 1407 1413 1418 11826 1441 1447 1453	Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens Anigozanthos flavidus (Tall Kangaroo Paw) Anigozanthos preissii (Albany Catspaw) Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis misera (Grass Conostylis) Conostylis pusilla		т	
Gyrinidae 723. Gyrostemon: 724. Haematopod 725. 726. Haemodorac 727. 728. 729. 730. 731. 732. 733. 734.	aceae 2787 lidae 25627 24487 ceae 11931 1407 1413 1418 11826 1441 1447 1453 1454	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens Anigozanthos flavidus (Tall Kangaroo Paw) Anigozanthos preissii (Albany Catspaw) Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis misera (Grass Conostylis) Conostylis pusilla Conostylis serrulata		т	
Gyrinidae 723. Gyrostemon: 724. Haematopod 725. 726. Haemodorac 727. 728. 729. 730. 731. 732. 733. 734. 735.	aceae 2787 lidae 25627 24487 ceae 11931 1407 1413 1418 11826 1441 1447 1453 1454 11597	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens Anigozanthos flavidus (Tall Kangaroo Paw) Anigozanthos preissii (Albany Catspaw) Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis misera (Grass Conostylis) Conostylis pusilla Conostylis serrulata Conostylis setigera (Bristly Cottonhead)		т	
Gyrinidae 723. Gyrostemon: 724. Haematopod 725. 726. Haemodorac 727. 728. 729. 730. 731. 732. 733. 734. 735. 736.	aceae 2787 lidae 25627 24487 ceae 11931 1407 1413 1418 11826 1441 1447 1453 1454 11597 1468	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens Anigozanthos flavidus (Tall Kangaroo Paw) Anigozanthos preissii (Albany Catspaw) Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis misera (Grass Conostylis) Conostylis pusilla Conostylis serrulata Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera		т	
Gyrinidae 723. Gyrostemon: 724. Haematopod 725. 726. Haemodorac 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737.	aceae 2787 lidae 25627 24487 ceae 11931 1407 1413 1418 11826 1441 1447 1453 1454 11597 1468 1474	Gyrinidae sp. Gyrostemon sheathii Haematopus fuliginosus (Sooty Oystercatcher) Haematopus longirostris (Pied Oystercatcher) Anigozanthos bicolor subsp. decrescens Anigozanthos flavidus (Tall Kangaroo Paw) Anigozanthos preissii (Albany Catspaw) Conostylis aculeata (Prickly Conostylis) Conostylis aculeata subsp. aculeata Conostylis misera (Grass Conostylis) Conostylis pusilla Conostylis serrulata Conostylis setigera (Bristly Cottonhead) Conostylis setigera subsp. setigera Haemodorum laxum		т	







N	lame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query
741.	1481	Tribonanthes australis			Alea
742.		Tribonanthes violacea			
Ualavanidaa					
Halcyonidae	20004	Decela navaga inaga // gyakian Kadahuma)	V		
743. 744.		Dacelo novaeguineae (Laughing Kookaburra) Todiramphus sanctus (Sacred Kingfisher)	Υ		
745.		Todiramphus sanctus (Sacred Kinglisher) Todiramphus sanctus subsp. sanctus (Sacred Kingfisher)			
		realitation database database (database valgitation)			
Halimedaceae					
746.	47213	Halimeda versatilis			
Haloragaceae					
747.		Glischrocaryon angustifolium			
748.	6160	Gonocarpus paniculatus			
749.	6162	Gonocarpus pusillus		P4	
750.	6166	Gonocarpus simplex		P4	
751.		Haloragis digyna			
752.		Meionectes brownii (Swamp Raspwort)			
753.	34964	Trihaloragis hexandra subsp. hexandra			
Hebridae					
754.		Hebridae sp.			
Hamara salli 4-					
Hemerocallida		Assessed a selection and the least the selection and the selection			
755.		Agrostocrinum hirsutum Cassia mierantha (Pala Crass Lilly)			
756.		Caesia micrantha (Pale Grass Lily)			
757. 759		Caesia occidentalis Conventesca microntha (Sand Lilu)			
758. 750		Corynotheca micrantha (Sand Lily)			
759. 760.		Corynotheca micrantha var. panda			
760.		Johnsonia lupulina (Hooded Lily)			
761.		Johnsonia teretifolia (Hooded Lily)			
762.		Stypandra glauca (Blind Grass) Tricoryne elatior (Yellow Autumn Lily)			
764.		Tricoryne sp. South Coast (T.E.H. Aplin 2653)			
704.	23470	Thought sp. South Coast (T.E.H. Apin 2000)			
Hemicorduliid	ae				
765.		Hemicorduliidae sp.			
Heterodontida 766.	ie	Heterodontus portusjacksoni			
Lirundinidaa					
Hirundinidae	24404	Hirunda naayana (Malaama Suallau)			
767.		Hirundo neoxena (Welcome Swallow)			
768. 769.		Petrochelidon ariel (Fairy Martin) Petrochelidon nigricans (Tree Martin)			
703.	40001	r eu ochelluon myhdans (mee iviai um)			
Hydatellaceae	!				
770.	1139	Trithuria bibracteata			
Hydraenidae					
771.		Hydraenidae sp.			
		Trydraemaa sp.			
Hydrobiosidae	Э				
772.		Hydrobiosidae sp.			
Hydrometridae	е				
773.		Hydrometridae sp.			
Hydrophilidae					
774.		Hydrophilidae sp.			
Hydropsychid	ae				
775.		Hydropsychidae sp.			
Hydroptilidae		I hadvantilida a an			
776.		Hydroptilidae sp.			
Hylidae					
777.	25378	Litoria adelaidensis (Slender Tree Frog)			
778.	25388	Litoria moorei (Motorbike Frog)			
Hyppidae					
Hypnidae		Hypnos monoptonygium			
779.		Hypnos monopterygium			
Hyriidae					
780.		Hyriidae sp.			
Icmadonhilas	226				
Icmadophilace		Sinhula coriacea			
781.	20000	Siphula coriacea			







Idiopidae	Name ID	Species Name Natur	alised Conse	rvation Code	¹ Endemic To Quer Area
782.		Aganippe rhaphiduca			
Iridaceae					
783.	18279	Babiana angustifolia	1		
784.		Ferraria crispa subsp. crispa			
785.	18392	Freesia alba x leichtlinii	(
786.	1524	Gladiolus undulatus (Wild Gladiolus)	(
787.	29193	Iris laevigata	(Υ
788.	1533	Ixia paniculata	(
789.	1534	Ixia polystachya (Variable Ixia)	1		
790.	1542	Patersonia babianoides			
791.	1547	Patersonia lanata (Woolly Patersonia)			
792.	1550	Patersonia occidentalis (Purple Flag, Koma)			
793.	30471	Patersonia occidentalis var. angustifolia			
794.	30476	Patersonia occidentalis var. latifolia			
795.	1553	Patersonia umbrosa (Yellow Flags)			
796.	14432	Patersonia umbrosa var. umbrosa			
797.	1558	Sparaxis bulbifera	(
798.	13103	Watsonia borbonica	1		
799.	18108	Watsonia meriana var. bulbillifera	(
800.	18118	Watsonia meriana var. meriana	(
stiophorida 801.	e	Makaira indica			
ou i. Iulomorphid	lae	wakana mulea			
802.		Atelomastix mainae			
803.		Samichus decoratus			
xodidae 804.		Ixodes australiensis			
Juncaceae					
805.	1178	Juncus bufonius (Toad Rush)	/		
806.			/		
807.		Juncus kraussii (Sea Rush)			
808.		Juncus meianthus		P3	
809.			1	. 0	
810.			/		
811.		Juncus pallidus (Pale Rush)			
812.		Juncus planifolius (Broadleaf Rush)			
Juncaginac		T. ()			
813.	18587	Triglochin nana			
Kyphosidae 814.		Kyphosus gladius MS			
814.		Kyphosus gladius MS			
814. Labridae					
814. L abridae 815.		Achoerodus gouldii			
814. L abridae 815. 816.		Achoerodus gouldii Austrolabrus maculatus			
814. L abridae 815. 816. 817.		Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata			
814. Labridae 815. 816. 817. 818.		Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus			
814. Labridae 815. 816. 817. 818. 819.		Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata			
814. Labridae 815. 816. 817. 818. 819.		Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus			
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820.	6855	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis			
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821.	6855 6865	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina			
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820.	6855 6865	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina	(
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823.	6855 6865 6880 6904	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear)	(
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824.	6855 6865 6880 6904	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear)	(
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823.	6855 6865 6880 6904 6913	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear)	(
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata Westringia dampieri	(T	
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae 826.	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata		T	
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae 826. Lamponidae	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata Westringia dampieri Carcharodon carcharias (Great White Shark)		T	
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae 826. Lamponidae 827.	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata Westringia dampieri Carcharodon carcharias (Great White Shark) Lampona cylindrata	·	Т	
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae 826. Lamponidae 827. 828.	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata Westringia dampieri Carcharodon carcharias (Great White Shark) Lampona cylindrata Lampona foliifera	•	T	
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae 826. Lamponidae 827.	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata Westringia dampieri Carcharodon carcharias (Great White Shark) Lampona cylindrata	•	Т	
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae 826. Lamponidae 827. 828.	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata Westringia dampieri Carcharodon carcharias (Great White Shark) Lampona cylindrata Lampona foliifera		T	Y
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae 826. Lamponidae 827. 828. 829.	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata Westringia dampieri Carcharodon carcharias (Great White Shark) Lampona cylindrata Lampona foliifera Lampona punctigera		T	Y
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae 826. Lamponidae 827. 828. 829. 830. 831.	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata Westringia dampieri Carcharodon carcharias (Great White Shark) Lampona cylindrata Lampona foliifera Lampona punctigera Lampona torbay		T	Y
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae 826. Lamponidae 827. 828. 829. 830. 831. Laridae	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata Westringia dampieri Carcharodon carcharias (Great White Shark) Lampona cylindrata Lampona foliifera Lampona punctigera Lampona torbay Prionosternum scutatum		T	Y
814. Labridae 815. 816. 817. 818. 819. Lamiaceae 820. 821. 822. 823. 824. 825. Lamnidae 826. Lamponidae 827. 828. 829. 830.	6855 6865 6880 6904 6913 6939	Achoerodus gouldii Austrolabrus maculatus Haletta semifasciata Ophthalmolepis lineolatus Siphonognathus argyrophanes Hemigenia humilis Hemigenia podalyrina Leonotis leonurus (Lion's Ear) Microcorys virgata Prostanthera canaliculata Westringia dampieri Carcharodon carcharias (Great White Shark) Lampona cylindrata Lampona foliifera Lampona punctigera Lampona torbay		T	Y



1	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
833.		Hydroprogne caspia (Caspian Tern)		IA	
834.		Larus novaehollandiae subsp. novaehollandiae (Silver Gull)			
835.		Larus pacificus (Pacific Gull)			
836. 837.		Sterna bergii (Crested Tern) Thalasseus bergii (Crested Tern)		IA	
037.	40001	Thatasseus bergii (Oresteu Terri)		IA	
Lauraceae					
838.		Cassytha flava (Dodder Laurel)			
839.		Cassytha glabella (Tangled Dodder Laurel)			
840.		Cassytha glabella forma glabella			
841. 842.		Cassytha micrantha Cassytha racemosa (Dodder Laurel)			
843.		Cassytha racemosa forma pilosa			
		Cabbytha racemosa forma piloda			
Lecanoraceae					
844.		Clauzadeana macula			
845.	27803	Lecanora farinacea			
846. 847.	28027	Lecanora sp. Ramboldia stuartii			
047.	20037	Nambolula Stuarui			
Lecideaceae					
848.	27826	Lecidea sarcogynoides			
849.		Lecidea sp.			
Lentibulariace	eae				
850.		Utricularia menziesii (Redcoats)			
851.	7148	Utricularia multifida			
852.	7153	Utricularia tenella			
Lepidogalaxii	dae				
853.		Lepidogalaxias salamandroides (Salamanderfish)		Т	
Louidoriosos					
Lepidoziacea	е	Vurzio composto			
654.		Kurzia compacta			
Leporidae					
855.	24085	Oryctolagus cuniculus (Rabbit)	Υ		
Leptoceridae					
856.		Leptoceridae sp.			
Leptophlebiid	lae				
857.	iuc	Leptophlebiidae sp.			
Liagoraceae	07000	Liana and a standard			
858.	27030	Liagora wilsoniana			
Libellulidae					
859.		Libellulidae sp.			
Lichinaceae					
860.		Pterygiopsis sp.			
		•			
Limnodynasti		Halaianaria avrai (Maanina Frag)			
861. 862.		Heleioporus eyrei (Moaning Frog) Limnodynastes dorsalis (Western Banjo Frog)			
	20710	Z			
Linaceae					
863.		Linum marginale (Wild Flax)			
864.	4363	Linum trigynum (French Flax)	Υ		
Lindsaeaceae)				
865.	59	Lindsaea linearis (Screw Fern)			
Lobariaceae					
866.	27997	Pseudocyphellaria neglecta			
		•			
Loganiaceae	0507	Lagaria huvifalia			
867. 868.		Logania buxifolia			
868.		Logania vaginalis (White Spray) Orianthera campanulata			
870.		Orianthera serpyllifolia			
871.		Orianthera serpyllifolia subsp. serpyllifolia			
872.		Phyllangium paradoxum			
Lophocoleace	eae	017			
873.		Chiloscyphus semiteres			
874.		Chiloscyphus semiteres var. semiteres			







Lanhatidaa	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Lophotidae 875.		Eumecichthys fiski			Υ
	_	24monomayo nam			
Loranthacea 876.		Nuytsia floribunda (Christmas Tree, Mudja)			
Lycopodiace	eae				
877.		Lycopodiella serpentina			
Lycosidae					
878.		Artoria cingulipes			
879.		Artoria flavimana			
880.		Artoriopsis eccentrica			
881.		Tasmanicosa leuckartii			
882.		Venatrix pullastra			
Macropodid	ae				
883.		Macropus fuliginosus (Western Grey Kangaroo)			
884.		Notamacropus irma (Western Brush Wallaby)		P4	
885.		Setonix brachyurus (Quokka)		Т	
Maluridae					
886.		Malurus elegans (Red-winged Fairy-wren)			
887.		Malurus pulcherrimus (Blue-breasted Fairy-wren)			
888.		Malurus splendens (Splendid Fairy-wren)			
889. 890.		Stipiturus malachurus (Southern Emu-wren)			
o s u.	Z4004	Stipiturus malachurus subsp. westernensis (Southern Emu-wren)			
Malvaceae					
891.		Commersonia corniculata			
892.		Commersonia corylifolia (Hazel-leaved Rulingia)			
893.		Commersonia grandiflora	.,		
894.		Malva pseudolavatera	Υ		
895. 896.		Thomasia pauciflora (Few Flowered Thomasia) Thomasia purpurea			
897.		Thomasia quercifolia (Oak Leaved Thomasia)		P4	
898.		Thomasia solanacea		P4	
899.		Thomasia triphylla			
Megalariace		Magalaria grassa			
Melanostom		Megalaria grossa			
901.		Opostomias micripnus			Υ
Malinhagida	_				
Meliphagida 902.		Acanthorhynchus superciliosus (Western Spinebill)			
903.		Anthochaera carunculata (Red Wattlebird)			
904.		Anthochaera lunulata (Western Little Wattlebird)			
905.		Epthianura albifrons (White-fronted Chat)			
906.	47962	Glyciphila melanops (Tawny-crowned Honeyeater)			
907.	25661	Lichmera indistincta (Brown Honeyeater)			
908.	24582	Lichmera indistincta subsp. indistincta (Brown Honeyeater)			
909.		Manorina flavigula (Yellow-throated Miner)			
910.		Melithreptus brevirostris (Brown-headed Honeyeater)			
911.		Melithreptus chloropsis (Western White-naped Honeyeater)			
912.		Phylidonyris niger (White-cheeked Honeyeater)			
913.	24596	Phylidonyris novaehollandiae (New Holland Honeyeater)			
Menyanthac	eae				
914.	36178	Liparophyllum lasiospermum			
915.		Ornduffia albiflora			
916.	36181	Ornduffia parnassifolia			
Mesophellia	ceae	Control in a diagram			
917.	mmatid	Castoreum radicatum			
Micropholco 918.	,,,,,,,atio	Raveniella peckorum			
919.		Taphiassa robertsi			
		,			
Mimetidae		Australomimetus diabolicus			
920.					
920. Miturgidae					







Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised Molidae Ranzania laevis Molossidae 923. 24183 Mormopterus Ioriae (Little Northern Freetail-bat) Monacanthidae 924 Acanthaluteres brownii 925. Acanthaluteres vittiger 926. Anacanthus barbatus 927 Brachaluteres jacksonianus 928. Cantheschenia Iongipinnis 929. Eubalichthys caeruleoguttatus Eubalichthys cyanoura 930 931. Eubalichthys mosaicus 932 Meuschenia freycineti 933. Meuschenia galii 934 Meuschenia hippocrepis 935. Parika scaber 936. Scobinichthys granulatus Monoscutidae 937. Hypomegalopsalis tanisphyros Moridae 938 Lotella sp Υ 939. Pseudophycis barbata Motacillidae 940. 24599 Anthus australis subsp. australis (Australian Pipit) 941. 24600 Anthus cervinus (Red-throated Pipit) Mugilidae 942 Liza vaigiensis Mullidae 943. Upeneus tragula Muraenidae Gymnothorax prasinus 944 945. Gymnothorax richardsoni Muridae 946 24215 Hydromys chrysogaster (Water-rat, Rakali) P4 24223 Mus musculus (House Mouse) 947. 948. 24230 Pseudomys albocinereus (Ash-grey Mouse) 949. 24243 Rattus fuscipes (Western Bush Rat) 24245 Rattus rattus (Black Rat) 950. Mycoblastaceae 951. 35477 Tephromela alectoronica 952 28068 Tephromela atra Myobatrachidae 25398 Crinia georgiana (Quacking Frog) 953. 25399 Crinia glauerti (Clicking Frog) 954. 955. 25401 Crinia pseudinsignifera (Bleating Froglet) 956. 25402 Crinia subinsignifera (South Coast Froglet) 957. 25404 Geocrinia leai (Ticking Frog) 958. 25433 Pseudophryne guentheri (Crawling Toadlet) Myrtaceae 959. 5315 Actinodium cunninghamii (Albany Daisy) 960 5316 Agonis flexuosa (Peppermint, Wonil) 17202 Agonis flexuosa var. flexuosa 961. 962. 19789 Agonis theiformis 963. 20361 Astartea arbuscula (Minute Astartea) 964 20125 Astartea corniculata 965 20127 Astartea glomerulosa (Early Astartea) 966. 45213 Astartea pulchella 967. 20283 Astartea scoparia (Common Astartea) 42820 Astartea transversa P2 968 5364 Baeckea pygmaea 969. 5376 Beaufortia anisandra (Dark Beaufortia) 970 971. 5379 Beaufortia cyrtodonta (Stirling Range Bottlebrush, Stirling Range Beaufortia) 972 5381 Beaufortia decussata (Gravel Bottlebrush)







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
973.		Beaufortia sparsa (Swamp Bottlebrush)			
974.		Callistemon glaucus			
975.		Calothamnus lateralis			
976.		Calathamnus preissii			
977.		Calothamnus schaueri			
978. 979.		Calytrix asperula (Brush Starflower) Calytrix flavescens (Summer Starflower)			
980.		Calytrix havescens (summer stantower)			
981.		Chamelaucium ciliatum			
982.		Conothamnus neglectus			
983.		Corymbia calophylla (Marri)			
984.		Darwinia oederoides			
985.	5533	Darwinia vestita (Pom-pom Darwinia)			
986.	45244	Ericomyrtus serpyllifolia			
987.	5550	Eucalyptus angulosa (Ridge-fruited Mallee, Kwararl)			
988.	5605	Eucalyptus cornuta (Yate, Yeid)			
989.	5616	Eucalyptus decurva (Slender Mallee)			
990.	5625	Eucalyptus diversicolor (Karri)			
991.		Eucalyptus doratoxylon (Spearwood Mallee, Keidjngund)			
992.		Eucalyptus falcata (Silver Mallet, Dulyumuk)			
993.		Eucalyptus globulus	Y		
994.		Eucalyptus goniantha subsp. goniantha (Jerdacuttup Mallee)			
995. 996.		Eucalyptus macrandra (Long-flowered Marlock, Dwed) Eucalyptus marrinata suhsp. marrinata (Jarrah)			
996. 997.		Eucalyptus marginata subsp. marginata (Jarrah) Eucalyptus megacarpa (Bullich, Pulidj)			
998.		Eucalyptus notactites			
999.		Eucalyptus occidentalis (Flat-topped Yate, Moidj)			
1000.		Eucalyptus patens (Swan River Blackbutt, Dwuda)			
1001.		Eucalyptus staeri (Albany Blackbutt)			
1002.		Homalospermum firmum			
1003.	5817	Hypocalymma angustifolium (White Myrtle, Kudjid)			
1004.	5818	Hypocalymma cordifolium			
1005.	13106	Hypocalymma scariosum			
1006.	5827	Hypocalymma strictum			
1007.	44873	Kunzea ambigua	Υ		
1008.		Kunzea clavata			
1009.		Kunzea ericifolia (Spearwood, Pondil)			
1010.		Kunzea ericifolia subsp. ericifolia			
1011.		Kunzea micrantha			
1012. 1013.		Kunzea recurva Leptospermum laevigatum (Coast Teatree)	Υ		
1013.		Leptospermum oligandrum	Ť		
1015.		Melaleuca croxfordiae			
1016.		Melaleuca densa			
1017.		Melaleuca diosmifolia			
1018.		Melaleuca microphylla			
1019.		Melaleuca pauciflora			
1020.	5948	Melaleuca pentagona			
1021.	5952	Melaleuca preissiana (Moonah)			
1022.	13277	Melaleuca ringens		P3	
1023.		Melaleuca spathulata			
1024.		Melaleuca striata			
1025.		Melaleuca thymoides			
1026.		Melaleuca viminea (Mohan)			
1027.		Pericalymma crassipes Pericalymma ellipticum (Supern Teatron)			
1028. 1029.		Pericalymma spongiocaula			
1029.		Pericalymma spongiocaule Regelia inops			
1030.		Rinzia schollerifolia (Cranberry Rinzia)			
1031.		Taxandria angustifolia			
1033.		Taxandria conspicua subsp. conspicua			
1034.		Taxandria fragrans			
1035.		Taxandria juniperina			
1036.		Taxandria linearifolia			
1037.	20134	Taxandria marginata			
1038.	20133	Taxandria parviceps			
	40404	Verticordia fimbrilepis subsp. australis		Т	
1039.	12424	verticordia filhibiliepis subsp. australis			
1039. 1040. 1041.	6084	Verticordia habrantha (Hidden Featherflower) Verticordia plumosa var. plumosa		'	







Name ID Species Name Naturalised Conservation Code ¹Endemic To Query Nannopercidae 1042. Edelia vittata 1043. 34033 Nannatherina balstoni (Balston's Pygmy Perch) Nemesiidae 1044 Aname tepperi Neobalaenidae 1045. 24072 Caperea marginata (Pygmy Right Whale) Neosebastidae 1046 Maxillicosta scabriceps Neosittidae 1047. 25673 Daphoenositta chrysoptera (Varied Sittella) 1048. 24606 Daphoenositta chrysoptera subsp. pileata (Varied Sittella, Black-capped Sitella) Nomeidae 1049. Cubiceps cf. baxteri Notonectidae 1050. Notonectidae sp. Odacidae 1051. Odax acroptilus 1052. Odax cyanomelas Odontaspididae 1053. 34034 Carcharias taurus (Grey Nurse Shark) Olacaceae 1054 2365 Olax benthamiana 1055 2366 Olax phyllanthi Oligochaeta 1056. Oligochaeta sp. Onagraceae 6133 Epilobium hirtigerum (Hairy Willow Herb) 1057. 1058 14292 Oenothera stricta subsp. stricta **Ophichthidae** 1059. Muraenichthys breviceps 1060 Ophisurus serpens Oplegnathidae Oplegnathus woodwardi 1061. Orchidaceae 1062. 1581 Caladenia corvnephora 1063. 10776 Caladenia ensata 15348 Caladenia flava subsp. flava 1064 1065. 15350 Caladenia flava subsp. sylvestris 1066 15353 Caladenia heberleana 1067. 15362 Caladenia longicauda subsp. crassa 1068 1603 Caladenia longiclavata (Clubbed Spider Orchid) 1069. 15371 Caladenia nana subsp. nana 1070. 15372 Caladenia nana subsp. unita 1609 Caladenia pectinata (King Spider Orchid) 1071. 1072. 15375 Caladenia pholcoidea 1073. 1610 Caladenia plicata (Crab-lipped Spider Orchid) 1074. 15379 Caladenia serotina 1075 1589 Caladenia x ericksoniae 1076. 33160 Calochilus uliginosus 1077. 12935 Corybas abditus РЗ P4 1078 12946 Corvbas limpidus 1079. 1627 Cryptostylis ovata (Slipper Orchid) 1080 15114 Cyanicula gemmata 1081. 15404 Cyanicula sericea 1082 10964 Cyrtostylis robusta 1083. 10942 Cyrtostylis tenuissima 1084. 19649 Disa bracteata 1632 Diuris emarginata (Tall Donkey Orchid) 1085 1086 1633 Diuris laevis (Nannygoat Orchid) 1087 46873 Diuris littoralis 1088 1640 Drakaea glyptodon (King-in-his-carriage) 1089 15406 Drakaea gracilis







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
1090.	11156	Drakaea livida			
1091.	1642	Drakaea thynniphila			
1092.	1643	Elythranthera brunonis (Purple Enamel Orchid)			
1093.	1644	Elythranthera emarginata (Pink Enamel Orchid)			
1094.	1645	Epiblema grandiflorum (Babe-in-a-cradle)			
1095.	1646	Eriochilus dilatatus (White Bunny Orchid)			
1096.	15412	Eriochilus dilatatus subsp. multiflorus			
1097.	15415	Eriochilus scaber subsp. scaber			
1098.	15416	Eriochilus valens			
1099.	12932	Gastrodia lacista			
1100.	1653	Leporella fimbriata (Hare Orchid)			
1101.	15418	Leptoceras menziesii			
1102.	1656	Lyperanthus serratus (Rattle Beak Orchid)			
1103.	1657	Microtis alba (White Mignonette Orchid)			
1104.	34158	Microtis alboviridis			
1105.	1658	Microtis atrata (Swamp Mignonette Orchid)			
1106.	8814	Microtis brownii			
1107.	12199	Microtis familiaris			
1108.	1659	Microtis globula (South-coast Mignonette Orchid)		Т	
1109.	15419	Microtis media subsp. media			
1110.	1660	Microtis orbicularis (Dark Mignonette Orchid)			
1111.	1662	Microtis pulchella (Beautiful Mignonette Orchid)		P4	
1112.	23483	Paracaleana brockmanii			
1113.	23504	Paracaleana disjuncta			
1114.	23500	Paracaleana hortiorum			
1115.	1667	Paracaleana nigrita (Flying Duck Orchid)			
1116.	20460	Pheladenia deformis			
1117.	15424	Praecoxanthus aphyllus			
1118.	1668	Prasophyllum brownii			
1119.	11066	Prasophyllum cucullatum (Hooded Leek Orchid)			
1120.	1671	Prasophyllum elatum (Tall Leek Orchid)			
1121.	1672	Prasophyllum fimbria (Fringed Leek Orchid)			
1122.	1674	Prasophyllum giganteum (Bronze Leek Orchid)			
1123.	16688	Prasophyllum gracile			
1124.	1676	Prasophyllum hians (Yawning Leek Orchid)			
1125.	1677	Prasophyllum macrostachyum (Laughing Leek Orchid)			
1126.		Prasophyllum parvifolium (Autumn Leek Orchid)			
1127.		Prasophyllum paulinae (Pauline's Laughing Leek Orchid)		P1	
1128.	1681	Prasophyllum regium (King Leek Orchid)			
1129.		Prasophyllum sp. early (G. Brockman GBB 1626)			
1130.		Prasophyllum triangulare (Dark Leek Orchid)			
1131.		Pterostylis brevisepala			
1132.		Pterostylis heberlei		P2	
1133.		Pterostylis microphylla			
1134.		Pterostylis pyramidalis (Snail Orchid)			
1135.		Pterostylis rogersii (Curled-tongue Shell Orchid)			
1136.		Pterostylis sp.			
1137.	18655	Pterostylis sp. crinkled leaf (G.J. Keighery 13426)			
1138.		Pterostylis turfosa (Bird Orchid)			
1139.		Pterostylis vittata (Banded Greenhood)			
1140.		Pyrorchis nigricans (Red beaks, Elephants ears)			
1141.		Thelymitra benthamiana (Leopard Orchid)			
1142.		Thelymitra canaliculata (Blue Sun Orchid)			
1143.		Thelymitra crinita (Blue Lady Orchid)			
1144.		Thelymitra cucullata (Swamp Sun Orchid)			
1145.		Thelymitra flexuosa (Twisted Sun Orchid)			
1146.		Thelymitra graminea			
1140.		Thelymitra macrophylla			
1147.		Thelymitra mucida (Plum Orchid)			
1149.		Thelymitra spiralis (Curlylocks)			
1150.		Thelymitra tigrina (Tiger Orchid)			
1150.		Thelymitra uliginosa			
1151.		Thelymitra uliginosa Thelymitra variegata (Queen of Sheba)		Do	
1152.				P2	
1100.	20/3/	X Cyanthera glossodioides			
Orectolobio	dae				
1154.		Orectolobus hutchinsi			
1155.		Sutorectus tentaculatus			
Orobancha	COSO				
1156.		Rarteia trivano	Υ		
1130.	13037	Bartsia trixago	Y	_	

Department of Parks and Wildlife





	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
1157.		Orobanche minor (Lesser Broomrape)	Υ		
1158.	7090	Parentucellia viscosa (Sticky Bartsia)	Υ		
Orsolobidae	е				
1159.		Australobus torbay			
1160.		Tasmanoonops mainae			
Orthotricha	ceae				
1161.	36218	Zygodon menziesii			
Ostraciidae	!				
1162.		Lactoria concatenatus			
Otariidae					
1163.	24208	Arctocephalus forsteri (New Zealand Fur Seal, long-nosed fur-seal)		S	
1164.		Arctocephalus tropicalis (Subantarctic fur-seal)		T	
1165.	24210	Neophoca cinerea (Australian Sea-lion)		Т	
Otididae					
1166.	24610	Ardeotis australis (Australian Bustard)			
Ovalidada		,			
Oxalidaceae		Oxalis pes-caprae (Soursob)	Υ		
1168.		Oxalis purpurea (Largeflower Wood Sorrel)	Y		
Pachycepha		Collusionala harmonica (Gray Shrika through)			
1169. 1170.		Colluricincla harmonica (Grey Shrike-thrush) Colluricincla harmonica subsp. rufiventris (Grey Shrike-thrush)			
1171.		Falcunculus frontatus (Crested Shrike-tit)			
1172.		Oreoica gutturalis (Crested Bellbird)			
1173.	34011	Oreoica gutturalis subsp. gutturalis (Crested Bellbird (southern))			
1174.	25680	Pachycephala rufiventris (Rufous Whistler)			
1175.	24624	Pachycephala rufiventris subsp. rufiventris (Rufous Whistler)			
Palaemonid	lae				
1176.		Palaemonidae sp.			
Pannariacea	20				
1177.		Degelia flabellata		P2	
1178.		Degelia subcrustata		12	
Danavaraa		•			
Papaverace 1179.		Fumaria capreolata (Whiteflower Fumitory)	Υ		
1180.		Fumaria muralis subsp. muralis	Y		
Danadawaa					
Paradoxoso 1181.	omatidae				
		Akamptogonus novarae			
Pararchaeid	dae				
1182.		Ozarchaea westraliensis			
Parascylliid					
	lae				
1183.	lae	Parascyllium variolatum			
		Parascyllium variolatum			
	ne	Parascyllium variolatum Cherax cainii (Marron)			
Parastacida	ne				
Parastacida 1184. 1185. 1186.	ne	Cherax cainii (Marron) Cherax destructor Cherax preissii			
Parastacida 1184. 1185.	ne	Cherax cainii (Marron) Cherax destructor			
Parastacida 1184. 1185. 1186.	a e 33939	Cherax cainii (Marron) Cherax destructor Cherax preissii			
Parastacida 1184. 1185. 1186. 1187.	33939 33939	Cherax cainii (Marron) Cherax destructor Cherax preissii			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189.	33939 33939 e 25681 24625	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote)			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189. 1190.	33939 33939 ee 25681 24625 24626	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote)			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189.	33939 33939 ee 25681 24625 24626	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote)			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189. 1190. 1191.	33939 25681 24625 24626 25682	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote)			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189. 1190. 1191. Parmeliacea 1192.	25681 24625 24626 25682 247743	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote) Pardalotus striatus (Striated Pardalote)			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189. 1190. 1191. Parmeliacea 1192. 1193.	25681 24625 24626 25682 247743 27748	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote) Pardalotus striatus (Striated Pardalote) Flavoparmelia diffractaica Flavoparmelia rutidota			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189. 1190. 1191. Parmeliacea 1192. 1193. 1194.	25681 24625 24626 25682 24743 27748 27748	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote) Pardalotus striatus (Striated Pardalote) Flavoparmelia diffractaica Flavoparmelia rutidota Hypogymnia subphysodes			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189. 1190. 1191. Parmeliacea 1192. 1193. 1194. 1195.	25681 24625 24626 25682 27743 27748 27787 28218	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote) Pardalotus striatus (Striated Pardalote) Flavoparmelia diffractaica Flavoparmelia rutidota Hypogymnia subphysodes Hypogymnia subphysodes var. austerodioides			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189. 1190. 1191. Parmeliacea 1192. 1193. 1194. 1195. 1196.	25681 24625 24626 25682 ae 27743 27748 27787 28218 28219	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote) Pardalotus striatus (Striated Pardalote) Flavoparmelia diffractaica Flavoparmelia rutidota Hypogymnia subphysodes Hypogymnia subphysodes var. austerodioides Hypogymnia subphysodes var. subphysodes			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189. 1190. 1191. Parmeliacea 1192. 1193. 1194. 1195.	25681 24625 24626 25682 282 27743 27748 27748 27787 28218 28219 27852	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote) Pardalotus striatus (Striated Pardalote) Flavoparmelia diffractaica Flavoparmelia rutidota Hypogymnia subphysodes Hypogymnia subphysodes var. austerodioides Hypogymnia subphysodes var. subphysodes Menegazzia caesiopruinosa			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189. 1190. 1191. Parmeliacea 1192. 1193. 1194. 1195. 1196. 1197.	25681 24625 24626 25682 27743 27748 27748 27787 28218 28219 27852 27855	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote) Pardalotus striatus (Striated Pardalote) Flavoparmelia diffractaica Flavoparmelia rutidota Hypogymnia subphysodes Hypogymnia subphysodes var. austerodioides Hypogymnia subphysodes var. subphysodes			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1190. 1191. Parmeliacea 1192. 1193. 1194. 1195. 1196. 1197. 1198.	25681 24625 24626 25682 27743 27748 27748 27787 28218 28219 27855 27855 27919	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote) Pardalotus striatus (Striated Pardalote) Flavoparmelia diffractaica Flavoparmelia rutidota Hypogymnia subphysodes Hypogymnia subphysodes var. austerodioides Hypogymnia subphysodes var. subphysodes Menegazzia caesiopruinosa Menegazzia subpertusa			
Parastacida 1184. 1185. 1186. 1187. Pardalotida 1188. 1189. 1190. 1191. Parmeliacea 1192. 1193. 1194. 1195. 1196. 1197. 1198. 1199.	25681 24625 24626 25682 27743 27748 27748 27787 28218 28219 27855 27855 27919 27923	Cherax cainii (Marron) Cherax destructor Cherax preissii Parastacidae sp. Pardalotus punctatus (Spotted Pardalote) Pardalotus punctatus subsp. punctatus (Spotted Pardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote) Pardalotus striatus (Striated Pardalote) Flavoparmelia diffractaica Flavoparmelia rutidota Hypogymnia subphysodes Hypogymnia subphysodes var. austerodioides Hypogymnia subphysodes var. subphysodes Menegazzia caesiopruinosa Menegazzia subpertusa Parmelinopsis minarum			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query
1203.	28107	Xanthoparmelia australasica			
1204.		Xanthoparmelia burmeisteri			
1205.		Xanthoparmelia dichotoma			
1206.		Xanthoparmelia glabrans			
1207.		Xanthoparmelia mexicana			
1208.		Xanthoparmelia mougeotina			
1209.	29036	Xanthoparmelia pulla			
1210.		Xanthoparmelia sp.			
1211.	28330	Xanthoparmelia subprolixa			
1212.	28181	Xanthoparmelia taractica			
1213.	28182	Xanthoparmelia tasmanica			
1214.	28191	Xanthoparmelia xanthomelaena			
Passeridae					
1215.	24642	Passer montanus (Eurasian Tree Sparrow)	Υ		
Pataecidae 1216.		Neopataecus waterhousii			
Pegasidae					
1217.		Pegasus lancifer			
1417.		i ogasas ialitil a i			
Pelecanidae 1218.	24648	Pelecanus conspicillatus (Australian Pelican)			
Pelecanoidid	ae				
1219.	24649	Pelecanoides urinatrix subsp. exsul (Common Diving Petrel)			
Pempheridae 1220.	•	Pempheris multiradiata			
Pentacerotida	ae				
1221.		Paristiopterus gallipavo			
Peramelidae 1222.	48588	Isoodon fusciventer (Quenda, southwestern brown bandicoot)		P4	
Percichthyida	ae				
1223.		Bostockia porosa			
1224.		Maccullochella peelii			Υ
1225.		Nannoperca vittata			'
1226.					Y
1220.		Polyprion americanus			Y
Percidae					
1227.		Perca fluviatilis			
Peronospora 1228.	ceae	Phytophthora cinnamomi			
Perthidae					
1229.		Perthiidae sp.			
Pertusariacea					
1230.	27949	Pertusaria leucostomoides			
Petroicidae					
1231.	24651	Eopsaltria australis subsp. griseogularis (Western Yellow Robin)			
1232.	24652	Eopsaltria georgiana (White-breasted Robin)			
1233.	25693	Microeca fascinans (Jacky Winter)			
1234.	48066	Petroica boodang (Scarlet Robin)			
1235.		Petroica goodenovii (Red-capped Robin)			
Phalacrocora		- , , , , , , , , , , , , , , , , , , ,			
1236.		Microcarbo melanoleucos			
1237.	25697	Phalacrocorax carbo (Great Cormorant)			
1238.		Phalacrocorax melanoleucos subsp. melanoleucos (Little Pied Cormorant)			
1239.		Phalacrocorax sulcirostris (Little Black Cormorant)			
1240.		Phalacrocorax varius (Pied Cormorant)			
Phalangerida	ie				
1241.		Trichosurus vulpecula subsp. vulpecula (Common Brushtail Possum)			
Phasianidae					
1242.		Coturnix pectoralis (Stubble Quail)			
1243.	25701	Coturnix ypsilophora (Brown Quail)			
1244.	24673	Coturnix ypsilophora subsp. australis (Brown Quail)			
1245.	24672	Coturnix ypsilophora subsp. cervina (Brown Quail)			
Obilizata					
Philydraceae					









Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised 1246. 1173 Philydrella pygmaea (Butterfly Flowers) Phreatoicidae 1247 Phreatoicidae sp. **Phyllanthaceae** 1248. 4675 Phyllanthus calycinus (False Boronia) 1249. 4689 Poranthera ericoides (Heath Poranthera) 1250 4690 Poranthera huegelii 1251. 4691 Poranthera microphylla (Small Poranthera) Physciaceae 1252. 27597 Buellia disciformis 1253. 28308 Pyxine fallax **Physeteridae** 24073 Physeter macrocephalus (Sperm Whale) Т 1254. **Physidae** Physidae sp. 1255 **Phytolaccaceae** 2793 Phytolacca octandra (Red Ink Plant) 1256. Pinguipedidae 1257. Parapercis haackei Pittosporaceae 1258. 3157 Billardiera floribunda (White-flowered Billardiera) 1259. 25798 Billardiera fusiformis (Australian Bluebell) 3159 Billardiera laxiflora 1260. 1261. 3165 Billardiera variifolia 1262. 25779 Billardiera venusta 1263. 16322 Pittosporum undulatum Planorbidae 1264. Planorbidae sp. Plantaginaceae 1265. 4717 Callitriche stagnalis (Common Starwort) 19625 Cymbalaria muralis subsp. muralis 1266. Υ 1267. 14282 Gratiola pubescens 1268. 7303 Plantago lanceolata (Ribwort Plantain) Υ 1269. 7108 Veronica arvensis (Wall Speedwell) 1270 7110 Veronica distans 1271. 7112 Veronica plebeia (Creeping Speedwell) Platycephalidae 1272. Neoplatycephalus conatus Plesiopidae 1273. Paraplesiops meleagris Pleuronectidae 1274. Ammotretis rostratus **Plotosidae** 1275. Cnidoglanis macrocephalus Poaceae 1276 185 Aira cupaniana (Silvery Hairgrass) 1277. 186 Aira elegantissima Υ 1278. 187 Aira praecox (Early Hairgrass) 1279. 194 Amphipogon amphipogonoides 1280 195 Amphipogon avenaceus 1281. 197 Amphipogon debilis 1282. 20184 Amphipogon laguroides subsp. laguroides 1283. 20196 Amphipogon setaceus 1284. 200 Amphipogon turbinatus 1285. 202 Anthoxanthum odoratum (Sweet Vernal Grass) 1286 17233 Austrostipa campylachne 1287. 17242 Austrostipa juncifolia 244 Briza maxima (Blowfly Grass) 1288 ٧ Υ 1289. 245 Briza minor (Shivery Grass) 1290 248 Bromus catharticus (Prairie Grass) 1291. 249 Bromus diandrus (Great Brome) Υ 1292 250 Bromus hordeaceus (Soft Brome) Υ 1293. 48259 Cortaderia selloana subsp. selloana Department of Parks and Wildlife museum

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N	ame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quer Area
			Υ		
1294.	287	Dactylis glomerata (Cocksfoot)	Υ		
1295.	299	Deyeuxia quadriseta (Reed Bentgrass)			
1296.	306	Dichelachne crinita (Longhair Plumegrass)			
1297.	311	Digitaria ciliaris (Summer Grass)	Υ		
1298.	11105	Echinochloa crus-galli	Υ		
1299.	348	Ehrharta erecta (Panic Veldt Grass)	Υ		
1300.	349	Ehrharta longiflora (Annual Veldt Grass)	Υ		
1301.	353	Eleusine indica (Crowsfoot Grass)	Υ		
1302.	373	Eragrostis brownii (Brown's Lovegrass)			
1303.	376	Eragrostis curvula (African Lovegrass)	Υ		
1304.	17043	Glyceria declinata	Υ		
1305.	444	Holcus lanatus (Yorkshire Fog)	Υ		
1306.	449	Hordeum leporinum (Barley Grass)	Υ		
1307.	20019	Lachnagrostis filiformis			
1308.	467	Lagurus ovatus (Hare's Tail Grass)	Υ		
1309.	10957	Lolium perenne x rigidum	Υ		
1310.	478	Lolium rigidum (Wimmera Ryegrass)	Υ		
1311.	485	Microlaena stipoides (Weeping Grass)			
1312.	492	Neurachne alopecuroidea (Foxtail Mulga Grass)			
1313.	516	Parapholis incurva (Coast Barbgrass)	Υ		
1314.		Paspalum dilatatum	Y		
1315.		Piptatherum miliaceum (Rice Millet)	Υ		
1316.		Poa annua (Winter Grass)	Y		
1317.		Poa poiformis (Coastal Poa)			
1318.		Poa porphyroclados			
1319.		Rytidosperma occidentale			
1320.		Rytidosperma setaceum			
1321.		Setaria parviflora	Υ		
1322.		Setaria verticillata (Whorled Pigeon Grass)	Y		
1323.		Spinifex hirsutus (Hairy Spinifex)	'		
1324.		Sporobolus africanus (Parramatta Grass)	Υ		
1325.			Ĭ		
		Tetrarrhena laevis (Forest Ricegrass)	V/		
1326.		Vulpia fasciculata	Y		
1327.	124	Vulpia myuros (Rat's Tail Fescue)	Υ		
Podargidae					
1328.	25703	Podargus strigoides (Tawny Frogmouth)			
1329.	24679	Podargus strigoides subsp. brachypterus (Tawny Frogmouth)			
Podicipedidae					
1330.	25704	Podiceps cristatus (Great Crested Grebe)			
1331.	24680	Podiceps cristatus subsp. australis (Great Crested Grebe)			
1332.	24681	Poliocephalus poliocephalus (Hoary-headed Grebe)			
1333.	25705	Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)			
Poeciliidae		Gambusia affinis			
Polycentropod	lidae				
1335.		Polycentropodidae sp.			
		, , , , , , , , , , , , , , , , , , ,			
Polygalaceae					
1336.		Comesperma calymega (Blue-spike Milkwort)			
1337.	4552	Comesperma confertum			
1338.	4554	Comesperma flavum			
1339.	4557	Comesperma nudiusculum			
1340.	4559	Comesperma polygaloides (Small Milkwort)			
1341.	4564	Comesperma virgatum (Milkwort)			
1342.	8395	Polygala myrtifolia (Myrtleleaf Milkwort)	Υ		
1343.	4578	Polygala virgata	Υ		
Polygonaceae					
1344.		Persicaria decipiens			
			V		
1345.		Rumex acetosella (Sorrel)	Y		
1346.		Rumex brownii (Swamp Dock)	Y		
1347.		Rumex conglomeratus (Clustered Dock)	Y		
1348.		Rumex obtusifolius subsp. obtusifolius	Y		
1349.	12017	Rumex pulcher subsp. pulcher (Fiddle Dock)	Υ		
Pomatostomid 1350.		Pomatostomus superciliosus (White-browed Babbler)			

Potamogetonaceae

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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1351.	110	Potamogeton drummondii			
Potoroidae 1352.	24162	Bettongia penicillata subsp. ogilbyi (Woylie, Brush-tailed Bettong)		Т	
Pottiaceae					
1353.	32315	Barbula calycina			
1354.		Pseudocrossidium crinitum			
1355.	32451	Triquetrella papillata			
Primulaceae		Lysimachia arvensis (Pimpernel)	Y		
1357.		Samolus junceus			
1358.	6484	Samolus repens (Creeping Brookweed)			
Pristiophori	idae				
1359.		Pristiophorus cirratus			
Procellariid	ae				
1360.	41326	Ardenna carneipes (Flesh-footed Shearwater, Fleshy-footed Shearwater)		Т	
1361.	24690	Macronectes giganteus (Southern Giant Petrel)		IA	
1362.		Pterodroma macroptera subsp. macoptera			
1363.	24711	Puffinus assimilis subsp. assimilis (Little Shearwater)			
Prodidomid	ae				
1364.		Molycria quadricauda			
1365.		Nomindra leeuweni			
Proteaceae					
1366.	10824	Acidonia microcarpa			
1367.	1769	Adenanthos apiculatus			
1368.	1773	Adenanthos cuneatus (Coastal Jugflower)			
1369.		Adenanthos obovatus (Basket Flower)			
1370.		Adenanthos sericeus (Woolly Bush)			
1371.		Adenanthos sericeus subsp. sericeus (Coastal Woollybush)		P4	
1372. 1373.		Adenanthos x cunninghamii Banksia arctotidis		P4	
1374.		Banksia attenuata (Slender Banksia, Piara)			
1375.		Banksia biterax			
1376.	1806	Banksia brownii (Feather-leaved Banksia)		Т	
1377.	1811	Banksia coccinea (Scarlet Banksia)			
1378.		Banksia dallanneyi subsp. sylvestris			
1379.		Banksia dryandroides (Dryandra-leaved Banksia)			
1380.		Banksia formosa (Showy Dryandra) Ranksia gardnari (Prostrata Ranksia)			
1381. 1382.		Banksia gardneri (Prostrate Banksia) Banksia gardneri var. brevidentata			
1383.		Banksia gardneri var. gardneri			
1384.		Banksia goodii (Good's Banksia)		Т	
1385.	1819	Banksia grandis (Bull Banksia, Pulgarla)			
1386.	1822	Banksia ilicifolia (Holly-leaved Banksia)			
1387.	1830	Banksia littoralis (Swamp Banksia, Pungura)			
1388.		Banksia marginata			
1389.		Banksia mucronulata (Swordfish Dryandra) Ranksia niwa (Hanayant Dryandra Rydian)			
1390. 1391.		Banksia nivea (Honeypot Dryandra, Pudjarn) Banksia nutans var. cernuella			
1392.		Banksia occidentalis (Red Swamp Banksia)			
1393.		Banksia praemorsa (Cut-leaf Banksia)			
1394.	1844	Banksia quercifolia (Oak-leaved Banksia)			
1395.	32085	Banksia seneciifolia		P4	
1396.	32084	Banksia serra (Serrate-leaved Dryandra)		P4	
1397.		Banksia sessilis var. sessilis			
1398.		Banksia sphaerocarpa (Round-fruit Banksia)			
1399. 1400.		Banksia sphaerocarpa var. sphaerocarpa (Fox Banksia) Banksia squarrosa (Pingle)			
1400.		Banksia squarrosa subsp. squarrosa			
1402.		Banksia verticillata (Albany Banksia)		Т	
1403.		Conospermum caeruleum (Blue Brother)			
1404.	15610	Conospermum caeruleum subsp. caeruleum			
1405.	1863	Conospermum capitatum			
1406.		Conospermum coerulescens subsp. adpressum			
1407.		Conospermum flexuosum (Tangled Smokebush)			
		Conospermum flexuosum subsp. flexuosum			
1408. 1409.		Conospermum floribundum			







	Name ID	Species Name Natura	lised Con	servation Code	¹ Endemic To Query Area
1411.	1883	Conospermum teretifolium (Spider Smokebush)			
1412.	1944	Franklandia fucifolia (Lanoline Bush)			
1413.	1987	Grevillea depauperata			
1414.		Grevillea fasciculata			
1415.		Grevillea occidentalis			
1416.		Grevillea pulchella (Beautiful Grevillea)			
1417.		Grevillea pulchella subsp. pulchella			
1418.		Grevillea trifida			
1419.		Grevillea umbellulata			
1420.		Hakea amplexicaulis (Prickly Hakea)			
1421.		Hakea ceratophylla (Horned Leaf Hakea)			
1422. 1423.		Hakea cucullata (Hood Leaved Hakea)			
1424.		Hakea drupacea Hakea ferruginea			
1425.		Hakea florida			
1426.		Hakea lasiantha (Woolly Flowered Hakea)			
1427.		Hakea linearis			
1428.		Hakea oleifolia (Dungyn)			
1429.		Hakea prostrata (Harsh Hakea)			
1430.		Hakea ruscifolia (Candle Hakea)			
1431.		Hakea sulcata (Furrowed Hakea)			
1432.		Hakea trifurcata (Two-leaf Hakea)			
1433.		Hakea tuberculata			
1434.	2215	Hakea undulata (Wavy-leaved Hakea)			
1435.	2216	Hakea varia (Variable-leaved Hakea)			
1436.		Isopogon attenuatus			
1437.	2223	Isopogon axillaris			
1438.	12908	Isopogon buxifolius var. buxifolius		P2	
1439.	2226	Isopogon cuneatus (Coneflower)			
1440.	16880	Isopogon formosus subsp. formosus			
1441.	2233	Isopogon longifolius			
1442.	2237	Isopogon sphaerocephalus (Drumstick Isopogon)			
1443.	2238	Isopogon teretifolius (Nodding Coneflower)			
1444.	2242	Isopogon uncinatus		T	
1445.	14878	Lambertia echinata subsp. citrina			
1446.	2248	Lambertia inermis (Chittick, Djidiok)			
1447.	2250	Lambertia orbifolia (Round-leaf Honeysuckle)			Υ
1448.	19187	Lambertia orbifolia subsp. orbifolia		Т	
1449.		Lambertia uniflora			
1450.		Persoonia elliptica (Spreading Snottygobble)			
1451.		Persoonia graminea			
1452.		Persoonia longifolia (Snottygobble)			
1453.		Petrophile acicularis			
1454.		Petrophile divaricata			
1455.		Petrophile diversifolia			
1456.		Petrophile longifolia (Long Leaved Cone Bush)			
1457.		Petrophile rigido			
1458.		Petrophile rigida			
1459. 1460		Petrophile squamata subsp. squamata Stirlingia seselifolia			
1460. 1461.		-			
1461.		Stirlingia tenuifolia Synaphea favosa			
1462.		Synaphea gracillima			
1464.		Synaphea incurva		P1	
1465.		Synaphea intricata		P3	
1466.		Synaphea obtusata		. 3	
1467.		Synaphea petiolaris (Synaphea)			
1468.		Synaphea petiolaris subsp. petiolaris			
1469.		Synaphea polymorpha (Albany Synaphea, Pinda)			
1470.		Synaphea preissii		P3	
				÷	
Pseudocheiri 1471.		Pseudocheirus occidentalis (Western Ringtail Possum, ngwayir)		Т	
Psittacidae		,,, .			
1472.		Barnardius zonarius			
1473.	25713	Cacatua galerita (Sulphur-crested Cockatoo)			
1474.		Cacatua roseicapilla subsp. assimilis (Galah)			
1475.		Calyptorhynchus banksii (Red-tailed Black-Cockatoo)			
1476.		Calyptorhynchus banksii subsp. naso (Forest Red-tailed Black Cockatoo)		Т	
1477.		Calyptorhynchus baudinii (Baudin's Cockatoo, White-tailed Long-billed Black			
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		NatureMap is a collaborative project of the Department of Parks and Wildlife and the Western Austra	alian Museum.	Department Parks and V	of Wildlife muse u



ı	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
		Cockatoo)		Т	Alea
1478.	24734	Calyptorhynchus latirostris (Carnaby's Cockatoo, White-tailed Short-billed Black		т	
		Cockatoo)		ı	
1479.		Calyptorhynchus sp. (white-tailed black cockatoo)		Т	
1480.		Neophema elegans (Elegant Parrot)			
1481.		Neophema petrophila (Rock Parrot)			
1482.		Platycercus icteratis (Western Rosella)			
1483. 1484.		Platycercus icterotis subsp. icterotis (Western Rosella) Platycercus spurius (Red-capped Parrot)			
1485.		Polytelis anthopeplus (Regent Parrot)			
1486.	20,22	Purpureicephalus spurius			
Psittaculidae	4000E	Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet)	Υ		
1407.	40003	r sittacula ki amen (mulan kingheckeu r anot, kose-ningeu r arakeet)	ī		
Pteridaceae					
1488.	31	Cheilanthes austrotenuifolia			
Pygopodidae					
1489.		Aprasia striolata (Lined Worm-lizard)			
1490.	25008	Pygopus lepidopodus (Common Scaly Foot)			
Pyralidae					
1491.		Pyralidae sp.			
_		,			
Racopilaceae		Pagapilum quanidigarum yar ganyalutagarum			
1492.	32480	Racopilum cuspidigerum var. convolutaceum			
Rajidae					
1493.		Raja sp.			
Rallidae					
1494.	25727	Fulica atra (Eurasian Coot)			
1495.		Fulica atra subsp. australis (Eurasian Coot)			
1496.	25729	Gallinula tenebrosa (Dusky Moorhen)			
1497.	25730	Gallirallus philippensis (Buff-banded Rail)			
1498.	24765	Gallirallus philippensis subsp. mellori (Buff-banded Rail)			
1499.	25731	Porphyrio porphyrio (Purple Swamphen)			
1500.		Porphyrio porphyrio subsp. bellus (Purple Swamphen)			
1501.		Porzana fluminea (Australian Spotted Crake)			
1502.		Porzana pusilla (Baillon's Crake)			
1503. 1504.		Porzana tabuensis (Spotless Crake) Tribonyx ventralis (Black-tailed Native-hen)			
1304.	40141	Tribotiya veritalis (biaca-talieu ivalive-rieti)			
Ramalinaceae	9				
1505.		Catinaria atropurpurea			
1506.	28030	Ramalina glaucescens			
Ranunculacea	ae				
1507.	2929	Clematis pubescens (Common Clematis)			
1508.	2933	Ranunculus muricatus (Sharp Buttercup)	Υ		
Recurvirostri	dae				
1509.	24774	Cladorhynchus leucocephalus (Banded Stilt)			
1510.	25734	Himantopus himantopus (Black-winged Stilt)			
1511.	24776	Recurvirostra novaehollandiae (Red-necked Avocet)			
Resedaceae					
1512.	3084	Reseda lutea (Cutleaf Mingnonette)	Υ		
		•	÷		
Restionaceae		Chaptanthus aristatus			
1513. 1514.		Chaetanthus aristatus Chaetanthus leptocarpoides			
1514.		Chaetanthus tenellus			
1516.		Chaetanurus terienus Chordifex abortivus		Т	
1517.		Chordifex isomorphus			
1518.		Chordifex laxus			
1519.		Desmocladus confertospicatus			
1520.	17691	Desmocladus fasciculatus			
1521.	16595	Desmocladus flexuosus			
1522.	1067	Empodisma gracillimum			
	1070	Hypolaena exsulca			
1523.					
1524.		Hypolaena fastigiata			
1524. 1525.	19918	Hypolaena grandiuscula		20	
1524.	19918 17054			P3	







1	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1528.	46375	Leptocarpus decipiens			
1529.		Leptocarpus denmarkicus			
1530.	46380	Leptocarpus kraussii			
1531.		Leptocarpus laxus			
1532.		Leptocarpus scariosus			
1533.		Leptocarpus scoparius			
1534.		Leptocarpus tenax (Slender Twine Rush)			
1535.		Leptocarpus tephrinus			
1536.		Leptocarpus thysananthus			
1537.		Lepyrodia drummondiana			
1538.		Lepyrodia hermaphrodita			
1539.		Lepyrodia monoica			
1540.	1092	Loxocarya cinerea			
1541.	17682	Melanostachya ustulata			
1542.	14915	Sporadanthus strictus			
1543.	17684	Tremulina tremula			
DI					
Rhamnaceae					
1544.		Spyridium globulosum (Basket Bush)			
1545.	14355	Spyridium majoranifolium			
1546.	4833	Spyridium spadiceum		P4	
1547.	33438	Trymalium odoratissimum subsp. trifidum			
Rhinobatidae 1548.		Trygonorrhina fasciata			
Rhizocarpace	eae				
1549.	28041	Rhizocarpon polycarpum			
Deceses					
Rosaceae					
1550.		Cotoneaster pannosus	Υ		
1551.	20506	Rubus anglocandicans	Υ		
Rubiaceae	7348	Opercularia hispidula (Hispid Stinkweed)			
1553.		Opercularia vaginata (Dog Weed)			
Killeeillaceau					
Russulaceae 1554. Rutaceae		Cystangium pisiglarea			
1554.	4403	Cystangium pisiglarea Boronia alata (Winged Boronia)			
1554. Rutaceae		Boronia alata (Winged Boronia)		P3	
1554. Rutaceae 1555. 1556.	4412	Boronia alata (Winged Boronia) Boronia crassipes		P3	
1554. Rutaceae 1555. 1556. 1557.	4412 4413	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia)		P3	
1554. Rutaceae 1555. 1556. 1557. 1558.	4412 4413 29274	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559.	4412 4413 29274 11503	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560.	4412 4413 29274 11503 4416	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561.	4412 4413 29274 11503 4416 4423	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia)		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562.	4412 4413 29274 11503 4416 4423 4426	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563.	4412 4413 29274 11503 4416 4423 4426 16630	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564.	4412 4413 29274 11503 4416 4423 4426 16630 16631	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563.	4412 4413 29274 11503 4416 4423 4426 16630 16631	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632 4428	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha Boronia juncea subsp. micrantha Boronia juncea subsp. minima		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632 4428	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha Boronia juncea subsp. micrantha Boronia juncea subsp. minima Boronia megastigma (Scented Boronia)		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632 4428 4429	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha Boronia juncea subsp. micrantha Boronia juncea subsp. minima Boronia megastigma (Scented Boronia) Boronia molloyae (Tall Boronia)		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632 4428 4429 4441	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha Boronia juncea subsp. micrantha Boronia juncea subsp. minima Boronia megastigma (Scented Boronia) Boronia molloyae (Tall Boronia) Boronia spathulata (Boronia)		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567. 1568.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632 4428 4429 4441 4442	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha Boronia juncea subsp. micrantha Boronia juncea subsp. minima Boronia megastigma (Scented Boronia) Boronia molloyae (Tall Boronia) Boronia spathulata (Boronia) Boronia stricta			
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567. 1568. 1569.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632 4428 4429 4441 4442 4443	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha Boronia juncea subsp. micrantha Boronia megastigma (Scented Boronia) Boronia megastigma (Scented Boronia) Boronia spathulata (Boronia) Boronia spathulata (Boronia) Boronia subsessilis Boronia virgata		P3	
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567. 1568. 1569. 1570. 1571.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632 4428 4429 4441 4442 4443 4447	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha Boronia juncea subsp. micrantha Boronia megastigma (Scented Boronia) Boronia megastigma (Scented Boronia) Boronia spathulata (Boronia) Boronia spathulata (Boronia) Boronia subsessilis Boronia virgata Chorilaena quercifolia (Chorilaena)			
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567. 1568. 1569. 1570. 1571. 1572.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632 4428 4441 4442 4443 4447 4448	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha Boronia juncea subsp. micrantha Boronia megastigma (Scented Boronia) Boronia megastigma (Scented Boronia) Boronia spathulata (Boronia) Boronia subsessilis Boronia virgata Chorilaena quercifolia (Chorilaena) Crowea angustifolia (Crowea)			
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567. 1568. 1569. 1570. 1571. 1572. 1573.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632 4428 4441 4442 4443 4447 4448 4451 17729	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha Boronia juncea subsp. micrantha Boronia juncea subsp. minima Boronia megastigma (Scented Boronia) Boronia megastigma (Scented Boronia) Boronia spathulata (Boronia) Boronia spathulata (Boronia) Boronia subsessilis Boronia virgata Chorilaena quercifolia (Chorilaena) Crowea angustifolia var. platyphylla			
1554. Rutaceae 1555. 1556. 1557. 1558. 1559. 1560. 1561. 1562. 1563. 1564. 1565. 1566. 1567. 1568. 1569. 1570. 1571. 1572.	4412 4413 29274 11503 4416 4423 4426 16630 16631 16632 4428 4441 4442 4443 4447 4448 4451 17729	Boronia alata (Winged Boronia) Boronia crassipes Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata Boronia crenulata var. crenulata Boronia denticulata Boronia heterophylla (Kalgan Boronia) Boronia juncea Boronia juncea subsp. laniflora Boronia juncea subsp. micrantha Boronia juncea subsp. micrantha Boronia megastigma (Scented Boronia) Boronia megastigma (Scented Boronia) Boronia spathulata (Boronia) Boronia subsessilis Boronia virgata Chorilaena quercifolia (Chorilaena) Crowea angustifolia (Crowea)			
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Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised Sapindaceae 1585. 4757 Dodonaea ceratocarpa Scincidae 1586. 25027 Ctenotus australis 1587. 25031 Ctenotus catenifer 1588. 25049 Ctenotus labillardieri 1589. 25096 Egernia kingii (King's Skink) 1590 25100 Egernia napoleonis 1591. 30919 Hemiergis gracilipes (skink) 1592 25117 Hemiergis peronii subsp. peronii 1593. 41416 Liopholis pulchra subsp. pulchra (South-western Rock Skink, Spectacled Rock Skink) 1594 42413 Lissolepis luctuosa (Western Swamp Skink) 1595. 25203 Tiliqua occipitalis (Western Bluetongue) 1596. 25207 Tiliqua rugosa subsp. rugosa Sciomyzidae 1597. Sciomyzidae sp. Scolopacidae 1598. 41323 Actitis hypoleucos (Common Sandpiper) IΑ 1599. 24780 Calidris alba (Sanderling) IA 1600 25738 Calidris canutus (Red Knot, knot) ΙA 24784 Calidris ferruginea (Curlew Sandpiper) 1601. Т 1602. 24788 Calidris ruficollis (Red-necked Stint) ΙA 1603. 24790 Calidris tenuirostris (Great Knot) Т 30932 Limosa lapponica (Bar-tailed Godwit) 1604 IΑ 24802 Philomachus pugnax (Ruff, reeve) 1605 IΑ 24806 Tringa glareola (Wood Sandpiper) 1606. IΑ 1607. 24808 Tringa nebularia (Common Greenshank, greenshank) IΑ Scolopendridae 1608 Cormocephalus aurantiipes Cormocephalus michaelseni 1609. Scomberesocidae 1610. Scomberesox saurus Scombridae 1611. Auxis thazard Thunnus alalunga 1612. 1613. Thunnus maccoyii Scorpididae 1614. Tilodon sexfasciatum Scrophulariaceae 1615. 7292 Myoporum oppositifolium (Twin-leaf Myoporum) Scyliorhinidae 1616. Aulohalaelurus labiosus 1617. Aulohalaelurus labiosus? Sebastidae 1618. Helicolenus percoides Selaginellaceae 1619. 6 Selaginella gracillima (Tiny Clubmoss) Sematophyllaceae 1620. 32483 Sematophyllum subhumile var. contiguum Serranidae 1621. Acanthistius serratus 1622 Caesioperca rasor 1623. Caesioscorpis theagenes 1624. Epinephelides armatus Sillaginidae Sillaginodes punctata 1625. 1626 Sillago bassensis Simuliidae 1627. Simuliidae sp. Siphonocladaceae 1628. 26770 Dictyosphaeria sericea







Name ID Species Name Naturalised Conservation Code ¹Endemic To Query **Siphonotidae** 1629. Siphonotus flavomarginatus Solanaceae 1630. 6950 Anthocercis viscosa (Sticky Tailflower) 1631. 11505 Anthocercis viscosa subsp. viscosa 1632. 7017 Solanum laciniatum (Kangaroo Apple) 1633. 7022 Solanum nigrum (Black Berry Nightshade) Υ Soleidae 1634 Aseraggodes haackeanus 1635. Svnaptura hediste 1636 Zebrias cancellatus **Sparassidae** 1637. Isopeda leishmanni 1638. Isopedella cana Sphaeriidae 1639. Sphaeriidae sp. **Spheniscidae** 1640. 24818 Eudyptula minor subsp. novaehollandiae (Little Penguin) **Sphyraenidae** 1641. Sphyraena barracuda **Sphyrnidae** 1642. Sphyrna lewini Stereocaulaceae 1643. 41263 Lepraria squamatica Stratiomyidae 1644 Stratiomyidae sp. Sturnidae 1645 25752 Sturnus vulgaris (Common Starling) 1646. 24824 Sturnus vulgaris subsp. vulgaris (Common Starling) Stylidiaceae 1647. 7673 Levenhookia pauciflora (Deceptive Stylewort) 1648 7676 Levenhookia pusilla (Midget Stylewort) 39881 Stylidium acuminatum subsp. meridionale 1649 1650 7684 Stylidium amoenum (Lovely Triggerplant) 1651. 39880 Stylidium angustifolium subsp. glaucifolium 7687 Stylidium assimile (Bronze-leaved Triggerplant) 1652 1653 7689 Stylidium beaugleholei 1654 7695 Stylidium caespitosum (Fly-away Triggerplant) 1655 7696 Stylidium calcaratum (Book Triggerplant) 1656. 7708 Stylidium crassifolium (Thick-leaved Triggerplant) 1657. 7712 Stylidium despectum (Dwarf Triggerplant) 31355 Stylidium diademum 1658 1659. 7718 Stylidium diversifolium (Touch-me-not) 7724 Stylidium falcatum (Slender Beaked Triggerplant) 1660 7725 Stylidium fasciculatum (Pale Beaked Triggerplant) 1661. 1662 20691 Stylidium gloeophyllum P4 1663. 7734 Stylidium guttatum (Dotted Triggerplant) 1664 7735 Stylidium hirsutum (Hairy Triggerplant) 1665. 7738 Stylidium imbricatum (Tile Leaved Triggerplant) 1666 7742 Stylidium inundatum (Hundreds and Thousands) 7745 Stylidium junceum (Reed Triggerplant) 1667 7757 Stylidium luteum (Yellow Triggerplant) 1668 1669 25851 Stylidium nymphaeum 1670. 7774 Stylidium piliferum (Common Butterfly Triggerplant) 1671. 7776 Stylidium plantagineum (Plantagenet Triggerplant) 7778 Stylidium pritzelianum (Royal Triggerplant) 1672 1673. 7782 Stylidium pulchellum (Thumbelina Triggerplant) 7784 Stylidium pygmaeum (Pygmy Triggerplant) 1674 1675 7785 Stylidium repens (Matted Triggerplant) 7796 Stylidium scandens (Climbing Triggerplant) 1676 1677. 7798 Stylidium schoenoides (Cow Kicks) 1678 Stylidium sp. 1679. 7799 Stylidium spathulatum (Creamy Triggerplant) 1680 7800 Stylidium spinulosum (Topsy-turvy Triggerplant) 1681 11223 Stylidium spinulosum subsp. spinulosum







N	lame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1682.	7802	Stylidium squamosotuberosum (Fleshy-rhizomed Trigger Plant)			7.1.04
1683.	25804	Stylidium thryonides			
1684.	7808	Stylidium violaceum (Violet Triggerplant)			
Sulidae					
1685.	48008	Morus serrator (Australasian Gannet)			
1005.	40000	Words Serialdi (Adstralasian Gainlet)			
Sylviidae					
1686.	25755	Acrocephalus australis (Australian Reed Warbler)			
1687.	24831	Acrocephalus australis subsp. gouldi (Australian Reed Warbler)			
1688.	25758	Megalurus gramineus (Little Grassbird)			
1689.	24838	Megalurus gramineus subsp. gramineus (Little Grassbird)			
Syngnathidae					
1690.		Landa jahdhu sa fiati da siya			
	24020	Leptoichthys fistularius		DO.	
1691.	34039	Phycodurus eques (Leafy Sea Dragon)		P2	
1692.		Phyllopteryx taeniolatus			
1693.		Solegnathus lettiensis			
1694.		Stigmatopora argus			
1695.		Vanacampus phillipi			
1696.		Vanacampus poecilolaemus			
Synodontidae					
1697.		Saurida grandisquamis			
1698.		Saurida undosquamis			
		·			
Synthemistida	ae				
1699.		Synthemistidae sp.			
Talitridae					
1700.		Talitridae sp.			
Tarsipedidae					
1701.	24167	Tarsipes rostratus (Honey Possum, Noolbenger)			
Telephlebiida	е				
1702.		Telephlebiidae sp.			
Teloschistace	ae				
1703.	27625	Caloplaca cinnabarina			
1704.	27638	Caloplaca marina			
1705.		Caloplaca sp.			
1706.	45301	Jackelixia ligulata			
1707.	28065	Teloschistes chrysophthalmus			
1708.		Xanthoria coomae			
1709.	28194	Xanthoria parietina			
		·			
Tetragnathida	e				
1710.		Pinkfloydia harveii			
1711.		Tetragnatha caudifera			Υ
Tetraodontida	e				
1712.		Contusus brevicaudus			
1713.		Omegophora armilla			
1714.		Torquigener vicinus			
		rorquigonor violitae			
Tetrarogidae					
1715.		Gymnapistes marmoratus			
Threskiornithi	achi				
1716.		Platalea flavipes (Yellow-billed Spoonbill)			
1716.		Plegadis falcinellus (Glossy Ibis)		IA	
1717.		Threskiornis spinicollis (Straw-necked Ibis)		iA	
1110.	Z4040	THE GRADITHO SPITHOUNG (SHAW-HOUKEU INIS)			
Thuidiaceae					
1719.	32442	Thuidium sparsum			
1720.	32486	Thuidium sparsum var. hastatum			
Thylacomyida	ι Δ				
Thylacomyida 1721.		Macrotis lagotis (Bilby, Dalgyte, Ninu)		Т	
		ac. sac lagotic (Billor, Bailgrice, Milla)		ı	
Thymelaeacea	ae				
1722.	5231	Pimelea angustifolia (Narrow-leaved Pimelea)			
1723.	11928	Pimelea ciliata subsp. ciliata			
1724.	5239	Pimelea clavata			
1725.	5243	Pimelea ferruginea			
1726.		Pimelea hispida (Bristly Pimelea)			
1727.		Pimelea imbricata			
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1728.	11533	Pimelea imbricata var. imbricata			
1729.		Pimelea lehmanniana subsp. lehmanniana			
1730.		Pimelea longiflora		Do.	
1731. 1732.		Pimelea rosea subsp. annelsii		P3	
1732.		Pimelea rosea subsp. rosea Pimelea tinctoria			
	3270	Timolea anetona			
Tipulidae 1734.		Tipulidae sp.			
Triakidae					
1735.		Furgaleus macki			
1736.		Galeorhinus galeus			
1737.		Mustelus antarcticus			
Triglidae		Lepidotrigla papilio			
1739.		Pterygotrigla polyommata			
		, torygotilgia poryonimata			
Tripterygiid 1740.	ae	Lepidoblennius marmoratus			
Trombidifor	mes				
1741.		Acariformes sp.			
Turnicidae	404 47	Turniy yariya (Paintad Buttan ayail)			
1742. 1743.		Turnix varius (Painted Button-quail) Turnix velox (Little Button-quail)			
	24801	runnin velon (Little Button-quall)			
Tytonidae					
1744.		Tyto alba (Barn Owl)			
1745.		Tyto alba subsp. delicatula (Barn Owl)			
1746.	24855	Tyto novaehollandiae subsp. novaehollandiae (Masked Owl (southwest))		P3	
Uranoscopi	dae				
1747.		Kathetostoma laeve			
1748.		Kathetostoma nigrofasciatum			
Urodacidae					
1749.		Urodacus novaehollandiae			
Urolophidae	;	Tragoportoro mugano			
1750.		Trygonoptera mucosa			
1751.		Urolophus gigas Urolophus paucimaculatus			
1753.		Urolophus sp.			
		Crosspride op.			
Usneaceae					
1754.		Usnea dasaea			
1755.		Usnea inermis			
1756.		Usnea maculata		D4	
1757.	18015	Usnea pulvinata		P1	
Varanidae 1758.	25225	Varanus rosenbergi (Heath Monitor)			
Veliferidae					
1759.		Metavelifer multiradiatus			
Veliidae 1760.		Veliidae sp.			
Vorbonassa					
Verbenacea		Lantana comera (Common Lantana)	V		
1761.		Lantana camara (Common Lantana)	Υ		
Vespertilion	idae				
1762.		Chalinolobus gouldii (Gould's Wattled Bat)			
1763.		Chalinolobus morio (Chocolate Wattled Bat)			
1764.		Falsistrellus mackenziei (Western False Pipistrelle, Western Falsistrelle)		P4	
1765. 1766.		Nyctophilus geoffroyi (Lesser Long-eared Bat) Vespadelus regulus (Southern Forest Bat)			
Xanthorrhoe	eaceae				
1767.		Chamaescilla corymbosa (Blue Squill)			
1768.		Xanthorrhoea preissii (Grass tree, Palga)			
		• • • • • • • • • • • • • • • • • • •			
Xyridaceae 1769.	1111	Yuris flevifolia			
1769. 1770.		Xyris flexifolia Xyris lacera			
1110.	1149	λγησ ιασοία			







Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised

1771. 1150 Xyris lanata

Zamiaceae

1772. 85 Macrozamia riedlei (Zamia, Djiridji)

Zeidae

1773. Zeus faber

Ziphiidae

1774. 24080 Mesoplodon layardii (Strap-toothed Beaked Whale)

Zodariidae

1775. Holasteron reinholdae

1776. Storosa tetrica

Zoridae

1777. Argoctenus bidentatus

Zosteropidae

1778. 25765 Zosterops lateralis (Grey-breasted White-eye, Silvereye)

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





NatureMap Fauna Species Report 15Km

Created By Guest user on 19/10/2018

Kingdom Animalia

Current Names Only Yes

Core Datasets Only Yes

Method 'By Line'

Vertices 34° 55′ 54″ S,117° 43′ 56″ E 34° 55′ 28″ S,117° 45′ 08″ E 34° 56′ 06″ S,117° 45′ 09″ E 34° 56′

Group By 22" S,117° 43' 39" E 34° 56' 06" S,117° 43' 28" E 34° 55' 54" S,117° 43' 58" E

Family

Family	Species	Records
Acanthizidae	8	1520
Accipitridae	14	370
Actinopodidae	4	20
Aegothelidae	1	9
Aeshnidae	1	:
Agamidae	1	•
Amphisopodidae	1	
Anapidae	.1	
Anatidae	13	836
Ancylidae	1	
Anhingidae	1	14
Apodidae	1	:
Aracanidae	3	_;
Araneidae	6	5
Archaeidae	<u>1</u>	20
Ardeidae	7	28
Argiolestidae	1	:
Arkyidae	2	40
Artamidae	2	10
Atherinidae	2	:
Atrichornithidae	1	
Baetidae Balannontoridae	1	
3alaenopteridae 3athysauridae	1	
Belonidae Belonidae	1	1:
Berycidae Berycidae	1	1:
Boidae Boidae	1	4
Bothriuridae	1	;
Burramyidae	1	
Cacatuidae	1	112
Caddidae	1	
Caenidae	1	1
Callanthiidae	i	'3
Callionymidae	1	:
Campephagidae	1	230
Canidae	i	20
Caprimulgidae	1	
Carangidae	3	
Carcharhinidae	2	
Casuariidae	1	
Ceinidae	1	10
Ceratiidae	1	
Ceratopogonidae	1	9
Charadriidae	8	82
Cheilodactylidae	1	
Cheloniidae	1	
Cheluidae	1	:
Chernetidae	1	
Chironemidae	2	:
Chironomidae	3	6
Clinidae	3	
Clupeidae	2	7
Coenagrionidae	1	
Columbidae	5	51
Congiopodidae	1	
Congridae	1	
Corduliidae	1	
Corixidae	1	
Corvidae	2	553
Cracticidae	4	690
Cuculidae	4	15
Culicidae	1	;
Cyprididae	2	;
Cypridopsidae	1	•
Dasyatidae	1	•
Dasyornithidae	<u>1</u>	
Dasyuridae	5	2
Delphinidae	2	4
Desidae	3	4
Dicaeidae	1	
Dicruridae	4	1299
Dinolestidae	1	:
Diodontidae	2	
Diomedeidae	2	:







ping	Western Australia's biodiversity		
		1	17
	Dytiscidae Echeneidae	1	17
	Ecnomidae	1	14
	Elapidae	7	23
	Elopidae	1	1
	Empididae	1	1
	Engraulidae	1	7
	Ephydridae	1	1
	Estrilidae	1	295
	Exocoetidae	1	1
	Falconidae	8	116
	Galaxiidae	4	28
	Garypidae	1	1
	Garypinidae	1	1
	Gekkonidae	1	23
	Gelastocoridae	1	2
	Gempylidae Geotriidae	1 1	1
	Gerreidae	1	3 2
	Girellidae	1	1
	Glossiphoniidae	1	3
	Gnaphosidae	i	1
	Gnathanacanthidae	1	1
	Gobiidae	3	7
	Gomphidae	1	4
	Gordiidae	1	1
	Gripopterygidae	1	4
	Gyrinidae	1	2
	Haematopodidae	2	22
	Halcyonidae	3	468
	Hebridae	1	1
	Hemicorduliidae	1	5
	Heterodontidae	1	3
	Hirundinidae	3	527
	Hydraenidae	1	1
	Hydrobiosidae	1	1
	Hydrometridae	1	3
	Hydrophilidae	1	12
	Hydropsychidae	1	8
	Hydroptilidae	1	3
	Hylidae	2	8
	Hypnidae	1	2
	Hyriidae	1	1
	Idiopidae	1	4
	Istiophoridae	1	1
	lulomorphidae	2	19
	Ixodidae	1	1
	Kyphosidae	1	1
	Labridae	5	13
	Lamnidae	1	1 12
	Lamponidae Laridae	5 6	158
		1	1
	Lepidogalaxiidae	1	
	Leptridae	1	1 16
	Leptoceridae Leptophlebiidae	1	3
	Libellulidae	1	2
	Limnodynastidae	2	59
	Lophotidae	1	1
	Lycosidae	5	30
	Macropodidae	3	9
	Maluridae	5	961
	Melanostomiidae	1	1
	Meliphagidae	12	1735
	Micropholcommatidae	2	3
	Mimetidae	1	1
	Miturgidae	1	1
	Molidae	1	6
	Molossidae	1	1
	Monacanthidae	13	23
	Monoscutidae	1	3
	Moridae	2	3
	Motacillidae	2	4
	Mugilidae	1	1
	Mullidae	1	1
	Muraenidae	2	2
	Muridae	5	75 75
	Myobatrachidae	6	75
	Nannopercidae Namosiidae	2	22
	Nemesiidae Neobalaenidae	1 1	84
	Neosebastidae	1	1 2
	Neosittidae	2	22
	Nomeidae	1	
	Notonectidae	1	1 2
	Odacidae	2	2
	Odontaspididae	1	1
	Oligochaeta	1	22
	Ophichthidae	2	8
	Oplegnathidae	1	1
	Orectolobidae	2	2
	Orsolobidae	2	48
	Ostraciidae	1	1
	Otariidae	3	4
	Otididae	1	4
	Pachycephalidae	7	395
	Palaemonidae	1	7
	Paradoxosomatidae	1	9
	Pararchaeidae	1	1
	Parascylliidae	1	1
	Parastacidae	4	34
	Pardalotidae	4	182
	Passeridae	1	7
	Pataecidae	1	1
	Pegasidae	1	2





ing Western Australia's biodiversity		
Pelecanidae	1	150
Pelecanoididae	1	1
Pempheridae	1	1
Pentacerotidae Peramelidae	1 1	1 35
Percichthyidae	4	43
Percidae	1	1
Perthidae	1	11
Petroicidae Phalacrocoracidae	5 5	372 193
Phalangeridae	1	3
Phasianidae	4	37
Phreatoicidae	1	1
Physeteridae Physidae	1 1	6 3
Priysidae Pinguipedidae	1	3 1
Planorbidae	1	2
Platycephalidae	1	1
Plesiopidae	1	1
Pleuronectidae Plotosidae	1 1	1 1
Podargidae	2	18
Podicipedidae	4	68
Poeciliidae	1	2
Polycentropodidae Pomatostomidae	1 1	1 1
Potoroidae	1	3
Pristiophoridae	i	1
Procellariidae	4	6
Prodidomidae	2	3
Pseudocheiridae Psittacidae	1 15	177 1700
Psittaculidae	1	1
Pygopodidae	2	5
Pyralidae	1	1
Rajidae Rallidae	1 11	1 213
Recurvirostridae	3	28
Rhinobatidae	1	1
Scincidae	11	69
Sciomyzidae	1 10	1 44
Scolopacidae Scolopendridae	2	10
Scomberesocidae	1	1
Scombridae	3	3
Scorpididae	1	2
Scyliorhinidae Sebastidae	2 1	3 1
Serranidae	4	6
Sillaginidae	2	31
Simuliidae	1	14
Siphonotidae Soleidae	1 3	1
Sparassidae	2	5
Sphaeriidae	1	1
Spheniscidae	1	19
Sphyraenidae Sphyrnidae	1 1	1 1
Stratiomyidae	1	2
Sturnidae	2	5
Sulidae	1	6
Sylviidae	4	51
Syngnatriidae Synodontidae	7 2	36 2
Synthemistidae	1	2
Talitridae	1	1
Tarsipedidae	1	64
Telephlebiidae Tetragnathidae	1 2	5 2
Tetraodontidae	3	3
Tetrarogidae	1	2
Threskiornithidae	3	239
Thylacomyidae Tipulidae	1 1	1 10
Triakidae	3	5
Triglidae	2	7
Tripterygiidae	1	6
Trombidiformes Turnicidae	1 2	12 15
Tytonidae	3	15
Uranoscopidae	2	4
Urodacidae	1	4
Urolophidae Varanidae	4 1	10
Varanidae Veliferidae	1	1 1
Veliidae		10
veliluae	1	
Vespertilionidae	5	17
Vespertilionidae Zeidae	5 1	5
Vespertilionidae Zeidae Ziphiidae	5 1 1	5 1
Vespertilionidae Zeidae	5 1	5 1 16 1
Vespertilionidae Zeidae Ziphiidae Zodariidae	5 1 1 2	5 1 16
Vespertilionidae Zeidae Ziphiidae Zodariidae Zoridae	5 1 1 2 1	5 1 16 1





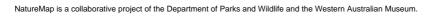
Name ID Species Name Naturalised Conservation Code ¹Endemic To Query Acanthizidae 24260 Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill) 1. 2. 24261 Acanthiza chrysorrhoa (Yellow-rumped Thornbill) 3. 24262 Acanthiza inornata (Western Thornbill) 25530 Gerygone fusca (Western Gerygone) 5. 24271 Gerygone fusca subsp. fusca (Western Gerygone) 25534 Sericornis frontalis (White-browed Scrubwren) 6. 24279 Sericornis frontalis subsp. maculatus (White-browed Scrubwren) 30948 Smicrornis brevirostris (Weebill) 8. **Accipitridae** 25535 Accipiter cirrocephalus (Collared Sparrowhawk) 9. 24281 Accipiter cirrocephalus subsp. cirrocephalus (Collared Sparrowhawk) 25536 Accipiter fasciatus (Brown Goshawk) 11. 12. 24282 Accipiter fasciatus subsp. fasciatus (Brown Goshawk) 13. 24285 Aquila audax (Wedge-tailed Eagle) 24288 Circus approximans (Swamp Harrier) 14. 15. 24289 Circus assimilis (Spotted Harrier) 16. Elanus axillaris 17. 24290 Elanus caeruleus subsp. axillaris (Australian Black-shouldered Kite) 24293 Haliaeetus leucogaster (White-bellied Sea-Eagle) 18. 24295 Haliastur sphenurus (Whistling Kite) 19. 47965 Hieraaetus morphnoides (Little Eagle) 20 21. Lophoictinia isura 22. 48591 Pandion cristatus (Osprey, Eastern Osprey) ΙA Actinopodidae Missulena granulosa 23 24. Missulena hoggi 25. Missulena occatoria 26. Missulena torbayensis Aegothelidae 27. 25544 Aegotheles cristatus (Australian Owlet-nightjar) Aeshnidae 28. Aeshnidae sp. Agamidae 29. 24907 Pogona minor subsp. minor (Dwarf Bearded Dragon) Amphisopodidae 30. Amphisopodidae sp. Anapidae 31. Chasmocephalon flinders Anatidae 32 24310 Anas castanea (Chestnut Teal) 33. 24312 Anas gracilis (Grey Teal) 34 24313 Anas platyrhynchos (Mallard) 35. 24315 Anas rhynchotis (Australasian Shoveler) 25550 Anas rhynchotis subsp. rhynchotis (Australasian Shoveler) 36 37. 24316 Anas superciliosa (Pacific Black Duck) 24318 Aythya australis (Hardhead) 39. 24319 Biziura lobata (Musk Duck) 24321 Chenonetta jubata (Australian Wood Duck, Wood Duck) 40. 41. 24322 Cygnus atratus (Black Swan) 24326 Malacorhynchus membranaceus (Pink-eared Duck) 42. 43. 24328 Oxyura australis (Blue-billed Duck) 44. 24331 Tadorna tadornoides (Australian Shelduck, Mountain Duck) **Ancylidae** 45. Ancylidae sp. **Anhingidae** 46. 47414 Anhinga novaehollandiae (Australasian Darter) Apodidae 47. 25554 Apus pacificus (Fork-tailed Swift, Pacific Swift) Aracanidae Aracana aurita







	Name ID	Species Name	Naturalised Co	nservation Code	¹ Endemic To Query Area
49.		Caprichthys gymnura			Allou
50.		Capropygia unistriata			
Araneidae					
51.		Arachnura higginsi			
52.		Araneus cyphoxis			
53.		Araneus senicaudatus			
54.		Austracantha minax			
55.		Backobourkia heroine			
56.		Nephila edulis			
Archaeidae	10001	7 alemanda de la companio del companio de la companio della compan		-	
57. Ardeidae	42361	Zephyrarchaea mainae (Main's assasin spider)		Т	
58.	25558	Ardea ibis (Cattle Egret)			
59.		Ardea modesta (great egret, white egret)			
60.	24340	Ardea novaehollandiae (White-faced Heron)			
61.	24341	Ardea pacifica (White-necked Heron)			
62.	24345	Botaurus poiciloptilus (Australasian Bittern)		Т	
63.		Egretta novaehollandiae			
64.	25564	Nycticorax caledonicus (Rufous Night Heron)			
Argiolestidae	•				
65.		Megapodagrionidae sp.			
Arkyidae		Adam although ala			
66.		Arkys alticephala			
67.		Arkys walckenaeri			
Artamidae					
68.	25566	Artamus cinereus (Black-faced Woodswallow)			
69.		Artamus cyanopterus (Dusky Woodswallow)			
Atherinidae					
70.		Atherinosoma sp.			
71.		Atherinosoma wallacei			
Atrichornithic 72. Baetidae		Atrichomis clamosus (Noisy Scrub-bird, tjimiluk)		Т	
73.		Baetidae sp.			
Balaenopterie		Balaenoptera musculus subsp. brevicauda (Pygmy Blue Whale)		Т	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		·	
Bathysaurida	ie				
75.		Saurida tumbil			
Belonidae 76.		??			
Berycidae					
77.		Centroberyx gerrardi			
		Control Story A gent and			
Boidae 78.	25240	Morelia spilota subsp. imbricata (Carpet Python)			
Bothriuridae					
79.		Cercophonius sulcatus			
		Coroophoniae dallocado			
Burramyidae 80.		Cercartetus concinnus (Western Pygmy-possum, Mundarda)			
Cacatuidae					
81.		Eolophus roseicapillus			
Caddidae 82.		Hesperopilio mainae			
Caenidae					
83.		Caenidae sp.			
Callanthiidae 84.		Callanthias australis			
Callionymida	е				
85.		Foetorepus calauropomus			
Campephagic	dae				









Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised 86. 25568 Coracina novaehollandiae (Black-faced Cuckoo-shrike) Canidae 87. 24040 Vulpes vulpes (Red Fox) Caprimulgidae 24368 Eurostopodus argus (Spotted Nightjar) 88. Carangidae 89. Naucrates ductor 90. Seriola lalandi 91. Trachurus declivis Carcharhinidae Carcharhinus obscurus 92. 93. Prionace glauca Casuariidae 94. 24470 Dromaius novaehollandiae (Emu) Ceinidae 95. Ceinidae sp. Ceratiidae 96. Ceratias tentaculatus Ceratopogonidae 97. Ceratopogonidae sp. Charadriidae 25575 Charadrius leschenaultii (Greater Sand Plover) 98 IΑ 99. 24377 Charadrius ruficapillus (Red-capped Plover) 100 47937 Elseyornis melanops (Black-fronted Dotterel) 101. 24379 Erythrogonys cinctus (Red-kneed Dotterel) 102 24382 Pluvialis fulva (Pacific Golden Plover) 103. 24383 Pluvialis squatarola (Grey Plover) IA 104. 48135 Thinornis rubricollis (Hooded Plover, Hooded Dotterel) 24386 Vanellus tricolor (Banded Lapwing) 105. Cheilodactylidae Nemadactylus macropterus 106. Cheloniidae 107. 25335 Caretta caretta (Loggerhead Turtle) Cheluidae 108. 43380 Chelodina colliei (South-western Snake-necked Turtle) Chernetidae 109. Nesidiochernes slateri Chironemidae 110. Chironemus georgianus 111. Threpterius maculosus Chironomidae Chironominae sp. 112. 113. Orthocladiinae sp. 114. Tanypodinae sp. Clinidae 115. Cristiceps aurantiacus Cristiceps australis 117. Heteroclinus roseus Clupeidae Sardinella lemuru? 118. 119. Sardinops neopilchardus Coenagrionidae 120. Coenagrionidae sp. Columbidae 121. 24399 Columba livia (Domestic Pigeon) 122 24407 Ocyphaps lophotes (Crested Pigeon) 123. 24409 Phaps chalcoptera (Common Bronzewing) 124 25587 Phaps elegans (Brush Bronzewing) 125. 25590 Streptopelia senegalensis (Laughing Turtle-Dove)

Congiopodidae







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
126.		Perryena leucometopon			Alea
Congridae		. ,			
127.		Scalanago lateralis			
Corduliidae		Corduliidaa aa			
		Corduliidae sp.			
Corixidae					
129.		Corixidae sp.			
Corvidae					
130.		Corvus coronoides (Australian Raven)			
131.	24417	Corvus coronoides subsp. perplexus (Australian Raven)			
Cracticidae					
132.		Cracticus tibicen (Australian Magpie)			
133.		Cracticus torquatus (Grey Butcherbird)			
134. 135.		Strepera versicolor (Grey Currawong) Strepera versicolor subsp. plumbea (Grey Currawong)			
	24420	Giropeta versicolor subsp. planibea (Grey Gunawong)			
Cuculidae	05500	Occasional in the health annie (Four telled Octabol)			
136. 137.		Cacomantis flabelliformis (Fan-tailed Cuckoo) Cacomantis flabelliformis subsp. flabelliformis (Fan-tailed Cuckoo)			
137.		Cacomantis nabeliilormis subsp. Ilabeliilormis (Pari-tailed Cuckoo) Cacomantis pallidus (Pallid Cuckoo)			
139.		Chrysococcyx lucidus subsp. plagosus (Shining Bronze Cuckoo)			
Culicidae					
140.		Culicidae sp.			
Cyprididae		Candanas mis na sacralandia			
141. 142.		Candonocypris novaezelandiae Ilyodromus ellipticus			
		Type a chiac empered			
Cypridopsida 143.	ae	Carra midanaia asulasta			
		Sarscypridopsis aculeata			
Dasyatidae					
144.		Dasyatis brevicaudata			
Dasyornithid					
145.	24440	Dasyornis longirostris (Western Bristlebird)		Т	
Dasyuridae					
146.	24088	Antechinus flavipes subsp. leucogaster (Yellow-footed Antechinus, Mardo)			
147.		Dasyurus geoffroii (Chuditch, Western Quoll)		T	
148. 149.		Sminthopsis gilberti (Gilbert's Dunnart) Sminthopsis griseoventer (Grey-bellied Dunnart)			
150.	25515	Sminthopsis murina			
Delphinidae	2/052	Delphinus delphis (Common Dolphin)			
152.		Tursiops aduncus (Indo-Pacific Bottlenose Dolphin)			
		. , , , , , , , , , , , , , , , , , , ,			
Desidae 153.		Badumna microps			
153.		Baiami torbayensis			
155.		Desis hartmeyeri			Υ
Dicaeidae					
156.	25607	Dicaeum hirundinaceum (Mistletoebird)			
Dicruridae 157.	24443	Grallina cyanoleuca (Magpie-lark)			
157.		Myiagra inquieta (Restless Flycatcher)			
159.		Rhipidura albiscapa (Grey Fantail)			
160.		Rhipidura Ieucophrys (Willie Wagtail)			
Dinolestidae					
161.		Dinolestes lewini			
Diodontidae					
162.		Allomycterus pilatus			
163.		Diodon nicthemerus			
Diomedeidae					
164.		Diomedea exulans subsp. exulans (Snowy Albatross)		Т	
165.		Thalassarche chlororhynchos (Atlantic Yellow-nosed Albatross)		T	
Dugesiidae					
Dugesiluae				(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	







Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised 166. Dugesiidae sp. Dytiscidae 167. Dytiscidae sp. **Echeneidae** 168. Remora remora **Ecnomidae** 169. Ecnomidae sp. Elapidae 170. 25251 Echiopsis curta (Bardick) 171. 25250 Elapognathus coronatus (Crowned Snake) 43384 Hydrophis platurus (Yellow-bellied Seasnake) 172. 173. 25252 Notechis scutatus (Tiger Snake) 174. 25255 Parasuta nigriceps 175. 25259 Pseudonaja affinis subsp. affinis (Dugite) 176. 30818 Rhinoplocephalus bicolor (Square-nosed Snake) **Elopidae** 177. Elops hawaiensis **Empididae** Empididae sp. 178 Engraulidae Engraulis australis 179. **Ephydridae** 180. Ephydridae sp. Estrilidae 181. 24645 Stagonopleura oculata (Red-eared Firetail) Exocoetidae 182. Cypselurus sp. **Falconidae** 183. 25621 Falco berigora (Brown Falcon) 184. 24471 Falco berigora subsp. berigora (Brown Falcon) 25622 Falco cenchroides (Australian Kestrel, Nankeen Kestrel) 185. 186. 24472 Falco cenchroides subsp. cenchroides (Australian Kestrel, Nankeen Kestrel) 187. 25623 Falco longipennis (Australian Hobby) 188. 24474 Falco longipennis subsp. longipennis (Australian Hobby) 25624 Falco peregrinus (Peregrine Falcon) 189. S 24475 Falco peregrinus subsp. macropus (Australian Peregrine Falcon) 190. Galaxiidae 191. Galaxias maculatus 192. 34028 Galaxias occidentalis (Western Minnow) 193. 34026 Galaxiella munda (mud minnow, western dwarf galaxias) 194. 34027 Galaxiella nigrostriata (Black-stripe Minnow, black-striped dwarf galaxias) Garypidae Synsphyronus magnus 195. Garypinidae 196. Protogarypinus giganteus Gekkonidae 197. 24980 Christinus marmoratus (Marbled Gecko) Gelastocoridae 198. Gelastocoridae sp. Gempylidae 199. Thyrsites atun Geotriidae 34030 Geotria australis (Pouched Lamprey) 200. Gerreidae 201. Parequula melbournensis Girellidae 202. Girella zebra Glossiphoniidae 203. Glossiphoniidae sp.







Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised Gnaphosidae 204. Megamyrmecion penicillatum Gnathanacanthidae 205. Gnathanacanthus goetzeei Gobiidae 206. Callogobius mucosus 207. Favonigobius lateralis 208. Pseudogobius olorum Gomphidae Gomphidae sp. Gordiidae 210. Gordiidae sp. Gripopterygidae Gripopterygidae sp. Gyrinidae 212. Gyrinidae sp. Haematopodidae 25627 Haematopus fuliginosus (Sooty Oystercatcher) 213. 24487 Haematopus longirostris (Pied Oystercatcher) 214. Halcyonidae 215. 30901 Dacelo novaeguineae (Laughing Kookaburra) 216. 25549 Todiramphus sanctus (Sacred Kingfisher) 24309 Todiramphus sanctus subsp. sanctus (Sacred Kingfisher) 217. Hebridae 218. Hebridae sp. Hemicorduliidae 219. Hemicorduliidae sp. Heterodontidae 220. Heterodontus portusjacksoni Hirundinidae 221. 24491 Hirundo neoxena (Welcome Swallow) 222. 48060 Petrochelidon ariel (Fairy Martin) 223. 48061 Petrochelidon nigricans (Tree Martin) Hydraenidae 224. Hydraenidae sp. Hydrobiosidae 225. Hydrobiosidae sp. Hydrometridae 226. Hydrometridae sp Hydrophilidae 227. Hydrophilidae sp. Hydropsychidae Hydropsychidae sp. 228. Hydroptilidae Hydroptilidae sp. 229. Hylidae 230. 25378 Litoria adelaidensis (Slender Tree Frog) 231. 25388 Litoria moorei (Motorbike Frog) Hypnidae 232. Hypnos monopterygium Hyriidae 233. Hyriidae sp. Idiopidae 234. Aganippe rhaphiduca Istiophoridae Makaira indica 235. Iulomorphidae 236 Atelomastix mainae







N	lame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
237.		Samichus decoratus			
Ixodidae					
238.		Ixodes australiensis			
		TXOUES AUSU AITE ISIS			
Kyphosidae					
239.		Kyphosus gladius MS			
Labridae					
240.		Achoerodus gouldii			
241.		Austrolabrus maculatus			
242.		Haletta semifasciata			
243.		Ophthalmolepis lineolatus			
244.		Siphonognathus argyrophanes			
Lamnidae					
245.	3/031	Carcharodon carcharias (Great White Shark)		Т	
	34031	Calcharough Carchanas (Great White Shark)		1	
Lamponidae					
246.		Lampona cylindrata			
247.		Lampona foliifera			
248.		Lampona punctigera			
249.		Lampona torbay			Υ
250.		Prionosternum scutatum			
Laridae					
251.		Chroicocephalus novaehollandiae			
252.	48587	Hydroprogne caspia (Caspian Tern)		IA	
253.		Larus novaehollandiae subsp. novaehollandiae (Silver Gull)			
254.		Larus pacificus (Pacific Gull)			
255.		Sterna bergii (Crested Tern)			
256.		Thalasseus bergii (Crested Tern)		IA	
		• • • • • • • • • • • • • • • • • • • •			
Lepidogalaxii				_	
257.	47983	Lepidogalaxias salamandroides (Salamanderfish)		T	
Leporidae					
258.	24085	Oryctolagus cuniculus (Rabbit)	Υ		
Lantagaridas					
Leptoceridae 259.		Leptoceridae sp.			
239.		Leptocentae Sp.			
Leptophlebiid	ae				
260.		Leptophlebiidae sp.			
Libellulidae					
261.		Libellulidae sp.			
Limnodynasti					
262.		Heleioporus eyrei (Moaning Frog)			
263.	25415	Limnodynastes dorsalis (Western Banjo Frog)			
Lophotidae					
264.		Eumecichthys fiski			Υ
		, .			
Lycosidae					
265.		Artoria cingulipes			
266.		Artoria flavimana			
267.		Artoriopsis eccentrica			
268.		Tasmanicosa leuckartii			
269.		Venatrix pullastra			
Macropodidae	•				
270.	24132	Macropus fuliginosus (Western Grey Kangaroo)			
271.	48022	Notamacropus irma (Western Brush Wallaby)		P4	
272.	24145	Setonix brachyurus (Quokka)		Т	
Maluridae					
273.	25650	Malurus elegans (Red-winged Fairy-wren)			
273. 274.		Malurus pulcherrimus (Blue-breasted Fairy-wren)			
274. 275.		Malurus splendens (Splendid Fairy-wren)			
275. 276.		Stipiturus malachurus (Southern Emu-wren)			
276.		Stipiturus malachurus (Southern Emu-wren) Stipiturus malachurus subsp. westernensis (Southern Emu-wren)			
411.	24004	Saprando malaunano sausep, mostemensis (Suunem Enlu-Wiell)			
Melanostomii	dae				
278.		Opostomias micripnus			Υ
Meliphagidae					
279.	24560	Acanthorhynchus superciliosus (Western Spinebill)			
270.	27000	ca.m.cyrionao daporomodao (110dtorri Opinobin)			
					-11195







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
280.	24561	Anthochaera carunculata (Red Wattlebird)			
281.	24562	Anthochaera lunulata (Western Little Wattlebird)			
282.	24567	Epthianura albifrons (White-fronted Chat)			
283.		Glyciphila melanops (Tawny-crowned Honeyeater)			
284.	25661	Lichmera indistincta (Brown Honeyeater)			
285.		Lichmera indistincta subsp. indistincta (Brown Honeyeater)			
286.		Manorina flavigula (Yellow-throated Miner)			
287.		Melithreptus brevirostris (Brown-headed Honeyeater)			
288.		Melithreptus chloropsis (Western White-naped Honeyeater)			
289.		Phylidonyris niger (White-cheeked Honeyeater)			
290.	24596	Phylidonyris novaehollandiae (New Holland Honeyeater)			
Micropholo	ommatid	ae			
291.		Raveniella peckorum			
292.		Taphiassa robertsi			
Mimetidae					
293.		Australomimetus diabolicus			
293.		Australonimetus diabolicus			
Miturgidae 294.		Mituliodon tarantulinus			
Molidae					
295.		Ranzania laevis			
Molossidae 296.	24183	Mormopterus Ioriae (Little Northern Freetail-bat)			
Monacanthi	dae				
297.		Acanthaluteres brownii			
298.		Acanthaluteres vittiger			
299.		Anacanthus barbatus			
300.		Brachaluteres jacksonianus			
301.		Cantheschenia longipinnis			
302. 303.		Eubalichthys caeruleoguttatus			
303.		Eubalichthys cyanoura			
305.		Eubalichthys mosaicus Meuschenia freycineti			
306.		Meuschenia galii			
307.		Meuschenia hippocrepis			
308.		Parika scaber			
309.		Scobinichthys granulatus			
		occontrol distriction of the state of the st			
Monoscutid	ae	I have a series and in the instrument			
310.		Hypomegalopsalis tanisphyros			
Moridae					
311.		Lotella sp.			Υ
312.		Pseudophycis barbata			
Motacillidae					
313.		Anthus australis subsp. australis (Australian Pipit)			
314.		Anthus cervinus (Red-throated Pipit)			
	24000	Thatas servinas (rea anoates riph)			
Mugilidae					
315.		Liza vaigiensis			
Mullidae					
316.		Upeneus tragula			
		,			
Muraenidae					
317.		Gymnothorax prasinus			
318.		Gymnothorax richardsoni			
Muridae					
319.	24215	Hydromys chrysogaster (Water-rat, Rakali)		P4	
320.	24223	Mus musculus (House Mouse)	Υ		
321.		Pseudomys albocinereus (Ash-grey Mouse)			
322.		Rattus fuscipes (Western Bush Rat)			
323.	24245	Rattus rattus (Black Rat)	Υ		
Myobatrach	idae				
324.		Crinia georgiana (Quacking Frog)			
325.		Crinia glauerti (Clicking Frog)			
326.		Crinia pseudinsignifera (Bleating Froglet)			
327.		Crinia subinsignifera (South Coast Froglet)			
328.	25404	Geocrinia leai (Ticking Frog)			







Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised 25433 Pseudophryne guentheri (Crawling Toadlet) Nannopercidae 330 Edelia vittata 331. 34033 Nannatherina balstoni (Balston's Pygmy Perch) Nemesiidae Aname tepperi Neobalaenidae 333. 24072 Caperea marginata (Pygmy Right Whale) Neosebastidae 334. Maxillicosta scabriceps Neosittidae 335. 25673 Daphoenositta chrysoptera (Varied Sittella) 24606 Daphoenositta chrysoptera subsp. pileata (Varied Sittella, Black-capped Sitella) 336. Nomeidae 337. Cubiceps cf. baxteri Notonectidae 338. Notonectidae sp. Odacidae 339. Odax acroptilus 340 Odax cyanomelas Odontaspididae 34034 Carcharias taurus (Grey Nurse Shark) 341. Oligochaeta 342. Oligochaeta sp. **Ophichthidae** 343. Muraenichthys breviceps 344. Ophisurus serpens **Oplegnathidae** 345 Oplegnathus woodwardi Orectolobidae 346 Orectolobus hutchinsi 347. Sutorectus tentaculatus Orsolobidae 348. Australobus torbay 349. Tasmanoonops mainae Ostraciidae 350. Lactoria concatenatus Otariidae 351 24208 Arctocephalus forsteri (New Zealand Fur Seal, long-nosed fur-seal) s 352. 24209 Arctocephalus tropicalis (Subantarctic fur-seal) 353. 24210 Neophoca cinerea (Australian Sea-lion) Otididae 354. 24610 Ardeotis australis (Australian Bustard) Pachycephalidae 355. 25675 Colluricincla harmonica (Grey Shrike-thrush) 356. 24613 Colluricincla harmonica subsp. rufiventris (Grey Shrike-thrush) 357. 25677 Falcunculus frontatus (Crested Shrike-tit) 358. 24618 Oreoica gutturalis (Crested Bellbird) 359. 34011 Oreoica gutturalis subsp. gutturalis (Crested Bellbird (southern)) 360 25680 Pachycephala rufiventris (Rufous Whistler) 361. 24624 Pachycephala rufiventris subsp. rufiventris (Rufous Whistler) Palaemonidae 362. Palaemonidae sp. Paradoxosomatidae 363. Akamptogonus novarae Pararchaeidae 364. Ozarchaea westraliensis Parascylliidae 365 Parascyllium variolatum







	Name ID	Species Name Na	aturalised	Conservation Code	¹ Endemic To Query Area
Parastacidae					
366.	33939	Cherax cainii (Marron)			
367.		Cherax destructor			
368.		Cherax preissii			
369.		Parastacidae sp.			
Pardalotidae					
370.	25681	Pardalotus punctatus (Spotted Pardalote)			
371.		Pardalotus punctatus subsp. punctatus (Spotted Pardalote)			
372.		Pardalotus punctatus subsp. partetatus (opoticu i ardalote) Pardalotus punctatus subsp. xanthopyge (Yellow-rumped Pardalote)			
373.		Pardalotus striatus (Striated Pardalote)			
		(2)			
Passeridae					
374.	24642	Passer montanus (Eurasian Tree Sparrow)	Υ		
Pataecidae					
375.		Neopataecus waterhousii			
D					
Pegasidae		Democratical fraction			
376.		Pegasus lancifer			
Pelecanidae					
377.	24648	Pelecanus conspicillatus (Australian Pelican)			
Pelecanoidid	20				
378.		Pelecannides urinatrix subsp. eysul (Common Diving Petrol)			
		Pelecanoides urinatrix subsp. exsul (Common Diving Petrel)			
Pempheridae	•				
379.		Pempheris multiradiata			
Pentacerotid	ae				
380.		Paristiopterus gallipavo			
Peramelidae					
381.	48588	Isoodon fusciventer (Quenda, southwestern brown bandicoot)		P4	
Percichthyida	ae				
382.		Bostockia porosa			
383.		Maccullochella peelii			Υ
384.		Nannoperca vittata			
385.		Polyprion americanus			Υ
Percidae					
386.		Perca fluviatilis			
300.		r Gloa Iluviaulis			
Perthidae					
387.		Perthiidae sp.			
Petroicidae					
388.	24651	Eopsaltria australis subsp. griseogularis (Western Yellow Robin)			
389.		Eopsaltria georgiana (White-breasted Robin)			
390.		Microeca fascinans (Jacky Winter)			
391.		Petroica boodang (Scarlet Robin)			
392.		Petroica goodenovii (Red-capped Robin)			
Phalacrocora	iciaae	Microscopho moleculos			
393.	25607	Microcarbo melanoleucos Phalacrocaray carbo (Great Cormorant)			
394. 305		Phalacrocorax carbo (Great Cormorant) Phalacrocorax malanalouses subsp. malanalouses (Little Ried Cormorant)			
395.		Phalacrocorax melanoleucos subsp. melanoleucos (Little Pied Cormorant)			
396. 397.		Phalacrocorax sulcirostris (Little Black Cormorant) Phalacrocorax varius (Pied Cormorant)			
381.	25099	i naladiocoliax valius (Fieu Colinidalii)			
Phalangerida	e				
398.	24158	Trichosurus vulpecula subsp. vulpecula (Common Brushtail Possum)			
Phasianidae					
399.	24671	Coturnix pectoralis (Stubble Quail)			
400.		Coturnix pectoralis (Stubble Quali) Coturnix ppsilophora (Brown Quali)			
401.		Coturnix ypsilophora subsp. australis (Brown Quail)			
402.		Coturnix ypsilophora subsp. cervina (Brown Quail)			
		Section 1997 Annual Section Se			
Phreatoicida	е				
403.		Phreatoicidae sp.			
Physeteridae					
404.		Physeter macrocephalus (Sperm Whale)		Т	
Dhue!de -					
Physidae		Dhusidas an			
405.		Physidae sp.			
				Department Parks and to	of wildlife museur
		NatureMap is a collaborative project of the Department of Parks and Wildlife and the Western A	ustralian Museu	m. Parks and	



Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised Pinguipedidae Parapercis haackei Planorbidae 407. Planorbidae sp. Platycephalidae 408. Neoplatycephalus conatus Plesiopidae 409 Paraplesiops meleagris Pleuronectidae 410 Ammotretis rostratus **Plotosidae** 411. Cnidoglanis macrocephalus **Podargidae** 412 25703 Podargus strigoides (Tawny Frogmouth) 413. 24679 Podargus strigoides subsp. brachypterus (Tawny Frogmouth) **Podicipedidae** 414. 25704 Podiceps cristatus (Great Crested Grebe) 415 24680 Podiceps cristatus subsp. australis (Great Crested Grebe) 416. 24681 Poliocephalus poliocephalus (Hoary-headed Grebe) 417. 25705 Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe) Poeciliidae 418 Gambusia affinis Polycentropodidae 419. Polycentropodidae sp. **Pomatostomidae** 24683 Pomatostomus superciliosus (White-browed Babbler) 420. Potoroidae 421. 24162 Bettongia penicillata subsp. ogilbyi (Woylie, Brush-tailed Bettong) Pristiophoridae 422. Pristiophorus cirratus Procellariidae 423. 41326 Ardenna carneipes (Flesh-footed Shearwater, Fleshy-footed Shearwater) Т 424 24690 Macronectes giganteus (Southern Giant Petrel) IΑ 425. Pterodroma macroptera subsp. macoptera 426. 24711 Puffinus assimilis subsp. assimilis (Little Shearwater) **Prodidomidae** 427. Molycria quadricauda 428. Nomindra leeuweni Pseudocheiridae 429. 24166 Pseudocheirus occidentalis (Western Ringtail Possum, ngwayir) **Psittacidae** 430 Barnardius zonarius 431. 25713 Cacatua galerita (Sulphur-crested Cockatoo) 432. 24725 Cacatua roseicapilla subsp. assimilis (Galah) 433. 25717 Calyptorhynchus banksii (Red-tailed Black-Cockatoo) 434. 24731 Calyptorhynchus banksii subsp. naso (Forest Red-tailed Black Cockatoo) т 435. 24733 Calyptorhynchus baudinii (Baudin's Cockatoo, White-tailed Long-billed Black Т Cockatoo) 436. 24734 Calyptorhynchus latirostris (Carnaby's Cockatoo, White-tailed Short-billed Black Cockatoo) 48400 Calyptorhynchus sp. (white-tailed black cockatoo) 437. 438 24738 Neophema elegans (Elegant Parrot) 439 24739 Neophema petrophila (Rock Parrot) 440. 25720 Platycercus icterotis (Western Rosella) 441. 24745 Platycercus icterotis subsp. icterotis (Western Rosella) 442. 24747 Platycercus spurius (Red-capped Parrot) 443 25722 Polytelis anthopeplus (Regent Parrot) 444 Purpureicephalus spurius **Psittaculidae** 48085 Psittacula krameri (Indian Ringnecked Parrot, Rose-ringed Parakeet) 445.







Name ID Species Name Naturalised Conservation Code ¹Endemic To Query Pygopodidae 446. 24994 Aprasia striolata (Lined Worm-lizard) 447. 25008 Pygopus lepidopodus (Common Scaly Foot) **Pyralidae** 448 Pyralidae sp. Rajidae 449 Raja sp. Rallidae 450. 25727 Fulica atra (Eurasian Coot) 451. 24761 Fulica atra subsp. australis (Eurasian Coot) 452 25729 Gallinula tenebrosa (Dusky Moorhen) 25730 Gallirallus philippensis (Buff-banded Rail) 453. 454. 24765 Gallirallus philippensis subsp. mellori (Buff-banded Rail) 455. 25731 Porphyrio porphyrio (Purple Swamphen) 24767 Porphyrio porphyrio subsp. bellus (Purple Swamphen) 457. 24769 Porzana fluminea (Australian Spotted Crake) 25732 Porzana pusilla (Baillon's Crake) 458 459 24771 Porzana tabuensis (Spotless Crake) 460. 48141 Tribonyx ventralis (Black-tailed Native-hen) Recurvirostridae 461. 24774 Cladorhynchus leucocephalus (Banded Stilt) 462 25734 Himantopus himantopus (Black-winged Stilt) 463. 24776 Recurvirostra novaehollandiae (Red-necked Avocet) Rhinobatidae 464. Trygonorrhina fasciata Scincidae 465. 25027 Ctenotus australis 466 25031 Ctenotus catenifer 467. 25049 Ctenotus labillardieri 468 25096 Egernia kingii (King's Skink) 469. 25100 Egernia napoleonis 470 30919 Hemiergis gracilipes (skink) 471. 25117 Hemiergis peronii subsp. peronii 472. 41416 Liopholis pulchra subsp. pulchra (South-western Rock Skink, Spectacled Rock Skink) 473. 42413 Lissolepis luctuosa (Western Swamp Skink) 25203 Tiliqua occipitalis (Western Bluetongue) 475. 25207 Tiliqua rugosa subsp. rugosa Sciomyzidae 476. Sciomyzidae sp. Scolopacidae 41323 Actitis hypoleucos (Common Sandpiper) IA 477. 478. 24780 Calidris alba (Sanderling) IΑ 479 25738 Calidris canutus (Red Knot, knot) IΑ 480. 24784 Calidris ferruginea (Curlew Sandpiper) 481. 24788 Calidris ruficollis (Red-necked Stint) IΑ 482. 24790 Calidris tenuirostris (Great Knot) Т 483. 30932 Limosa lapponica (Bar-tailed Godwit) ΙA 24802 Philomachus pugnax (Ruff, reeve) 484 IΑ 485. 24806 Tringa glareola (Wood Sandpiper) IA 486. 24808 Tringa nebularia (Common Greenshank, greenshank) IΑ Scolopendridae 487. Cormocephalus aurantiipes 488. Cormocephalus michaelseni Scomberesocidae 489. Scomberesox saurus Scombridae 490 Auxis thazard 491. Thunnus alalunga 492. Thunnus maccoyii Scorpididae 493. Tilodon sexfasciatum Scyliorhinidae 494 Aulohalaelurus labiosus 495. Aulohalaelurus labiosus? NatureMap is a collaborative project of the Department of Parks and Wildlife and the Western Australian Museum.







Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised Sebastidae Helicolenus percoides Serranidae 497. Acanthistius serratus 498 Caesioperca rasor 499. Caesioscorpis theagenes 500 Epinephelides armatus Sillaginidae Sillaginodes punctata 501. 502. Sillago bassensis Simuliidae 503. Simuliidae sp. **Siphonotidae** 504. Siphonotus flavomarginatus Soleidae 505. Aseraggodes haackeanus 506. Svnaptura hediste 507. Zebrias cancellatus Sparassidae 508 Isopeda leishmanni 509. Isopedella cana **Sphaeriidae** Sphaeriidae sp. 510. **Spheniscidae** 511. 24818 Eudyptula minor subsp. novaehollandiae (Little Penguin) Sphyraenidae 512. Sphyraena barracuda **Sphyrnidae** 513. Sphyrna lewini Stratiomyidae 514. Stratiomyidae sp. Sturnidae 515. 25752 Sturnus vulgaris (Common Starling) 516. 24824 Sturnus vulgaris subsp. vulgaris (Common Starling) Sulidae 517. 48008 Morus serrator (Australasian Gannet) Sylviidae 25755 Acrocephalus australis (Australian Reed Warbler) 518. 519. 24831 Acrocephalus australis subsp. gouldi (Australian Reed Warbler) 520 25758 Megalurus gramineus (Little Grassbird) 521. 24838 Megalurus gramineus subsp. gramineus (Little Grassbird) Syngnathidae 522. Leptoichthys fistularius 523. 34039 Phycodurus eques (Leafy Sea Dragon) 524. Phyllopteryx taeniolatus 525. Solegnathus lettiensis Stigmatopora argus 526. 527. Vanacampus phillipi 528. Vanacampus poecilolaemus Synodontidae 529. Saurida grandisquamis 530 Saurida undosquamis **Synthemistidae** Synthemistidae sp. 531. **Talitridae** 532 Talitridae sp **Tarsipedidae** 533. 24167 Tarsipes rostratus (Honey Possum, Noolbenger) Telephlebiidae 534. Telephlebiidae sp.

NatureMap is a collaborative project of the Department of Parks and Wildlife and the Western Australian Museum.







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Tetragnathic	dae				
535.		Pinkfloydia harveii			
536.		Tetragnatha caudifera			Υ
Tetraodontio	dae				
537.	uuo	Contusus brevicaudus			
538.		Omegophora armilla			
539.		Torquigener vicinus			
Tatuananida	_				
Tetrarogidae 540.	е	Gymnapistes marmoratus			
Threskiornit	hidae				
541.	24841	Platalea flavipes (Yellow-billed Spoonbill)			
542.	24843	Plegadis falcinellus (Glossy Ibis)		IA	
543.	24845	Threskiornis spinicollis (Straw-necked Ibis)			
Thylacomyic	dae				
544.		Macrotis lagotis (Bilby, Dalgyte, Ninu)		Т	
	24100	madrata tagata (Bilby, Ballyto, Mina)		'	
Tipulidae					
545.		Tipulidae sp.			
Triakidae					
546.		Furgaleus macki			
547.		Galeorhinus galeus			
548.		Mustelus antarcticus			
Totalida -					
Triglidae		Louista talada a santta			
549.		Lepidotrigla papilio			
550.		Pterygotrigla polyommata			
Tripterygiida	ae				
551.		Lepidoblennius marmoratus			
Trombidifor	mes	Academy			
552.		Acariformes sp.			
Turnicidae					
553.	48147	Turnix varius (Painted Button-quail)			
554.	24851	Turnix velox (Little Button-quail)			
Tytonidae					
555.	25762	Tyto alba (Barn Owl)			
556.		Tyto alba subsp. delicatula (Barn Owl)			
557.		Tyto novaehollandiae subsp. novaehollandiae (Masked Owl (southwest))		P3	
Uranoscopio	dae				
558.		Kathetostoma laeve			
559.		Kathetostoma nigrofasciatum			
Urodacidae 560.		Urodacus novaehollandiae			
Urolophidae					
561.	•	Trygonoptera mucosa			
562.		Urolophus gigas			
563.		Urolophus paucimaculatus			
564.		Urolophus sp.			
Varanidae	05000	Manager and a middle of the Manife S			
565.	25225	Varanus rosenbergi (Heath Monitor)			
Veliferidae 566.		Metavelifer multiradiatus			
Veliidae					
567.		Veliidae sp.			
Vespertilion	idae	, canada op.			
568.		Chalinolobus gouldii (Gould's Wattled Bat)			
569.	24187	Chalinolobus morio (Chocolate Wattled Bat)			
570.	24189	Falsistrellus mackenziei (Western False Pipistrelle, Western Falsistrelle)		P4	
571.	24194	Nyctophilus geoffroyi (Lesser Long-eared Bat)			
572.	24206	Vespadelus regulus (Southern Forest Bat)			
Zeidae					
573.		Zeus faber			
575.					







Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised

Ziphiidae

574. 24080 Mesoplodon layardii (Strap-toothed Beaked Whale)

Zodariidae

575. Holasteron reinholdae 576. Storosa tetrica

Zoridae

577. Argoctenus bidentatus

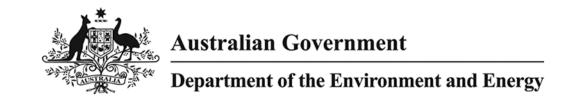
Zosteropidae

578. 25765 Zosterops lateralis (Grey-breasted White-eye, Silvereye)

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





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: 19/10/18 18:23:43

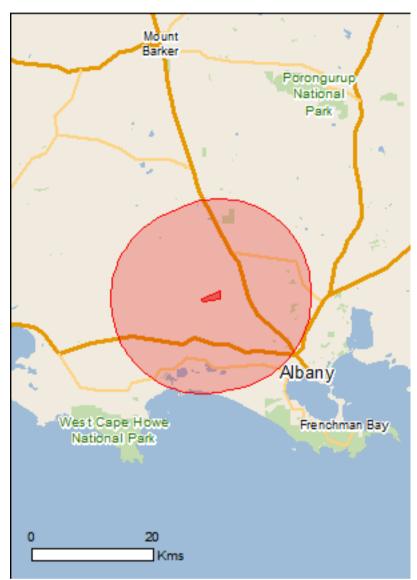
Summary

Details

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

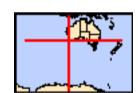
Caveat

<u>Acknowledgements</u>



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Coordinates
Buffer: 15.0Km



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:	2
Listed Threatened Species:	58
Listed Migratory Species:	41

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:	65
Whales and Other Cetaceans:	12
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:	11
Regional Forest Agreements:	1
Invasive Species:	26
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

Listed Threatened Loological Communities		[Resource information]
For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.		
Name	Status	Type of Presence
Proteaceae Dominated Kwongkan Shrublands of the Southeast Coastal Floristic Province of Western Australia	Endangered	Community may occur within area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area
Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Botaurus poiciloptilus		
Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area
<u>Calidris canutus</u>		
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to 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	Breeding 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
Cereopsis novaehollandiae grisea Cape Barren Goose (south-western), Recherche Cape Barren Goose [25978]	Vulnerable	Species or species habitat may occur within area
Dasyornis longirostris Western Bristlebird [515]	Endangered	Species or species habitat likely to occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area

[Resource Information]

Name	Status	Type of Presence
<u>Diomedea epomophora</u>		
Southern Royal Albatross [89221] Diomedea exulans	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
<u>Limosa Iapponica baueri</u> Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat may occur within area
Limosa Iapponica menzbieri Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta cauta Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche cauta steadi White-capped Albatross [82344]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area

Fish

Name	Status	Type of Presence
Nannatherina balstoni Balston's Pygmy Perch [66698]	Vulnerable	Species or species habitat likely to occur within area
Mammals		
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat may occur within area
Parantechinus apicalis Dibbler [313]	Endangered	Species or species habitat likely to occur within area
Pseudocheirus occidentalis Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat known to occur within area
Other		
Westralunio carteri Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Banksia brownii Brown's Banksia, Feather-leaved Banksia [8277]	Endangered	Species or species habitat known to occur within area
Banksia goodii Good's Banksia [16727]	Vulnerable	Species or species habitat known to occur within area
Banksia verticillata Granite Banksia, Albany Banksia, River Banksia [8333]	Vulnerable	Species or species habitat likely to occur within area
Caladenia granitora [65292]	Endangered	Species or species habitat may occur within area
Caladenia harringtoniae Harrington's Spider-orchid, Pink Spider-orchid [56786]	Vulnerable	Species or species habitat may occur within area
Calectasia cyanea Blue Tinsel Lily [7669]	Critically Endangered	Species or species habitat known to occur within area
Chordifex abortivus Manypeaks Rush [64868]	Endangered	Species or species habitat likely to occur within area
Conostylis misera Grass Conostylis [21320]	Endangered	Species or species habitat
		known to occur within area

Name	Status	Type of Presence
		within area
Drakaea micrantha Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat likely to occur within area
		•
Isopogon uncinatus Albany Cone Bush, Hook-leaf Isopogon [20871]	Endangered	Species or species habitat known to occur within area
Kennedia glabrata		
Northcliffe Kennedia [16452]	Vulnerable	Species or species habitat likely to occur within area
Sphenotoma drummondii Mountain Paper-heath [21160]	Endangered	Species or species habitat may occur within area
Verticordia apecta		
Hay River Featherflower, Scruffy Verticordia [65545]	Critically Endangered	Species or species habitat may occur within area
Verticordia fimbrilepis subsp. australis Southern Shy Featherflower [24630]	Vulnerable	Species or species habitat known to occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Sharks		
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species * Species is listed under a different scientific name on t	he FPBC Act - Threatened	[Resource Information] 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
Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Breeding known to occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Name	Threatened	Type of Presence
Diomedea exulans Wandering Albatross [89223] Diomedea sanfordi	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Hydroprogne caspia Caspian Tern [808]		Foraging, feeding or related behaviour known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta Tasmanian Shy Albatross [89224]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		
Balaena glacialis australis Southern Right Whale [75529] Balaenoptera edeni	Endangered*	Breeding known to occur within area
Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Caretta caretta Loggerhead Turtle [1763] Chalania mudaa	Endangered	Breeding likely to occur within area
Chelonia mydas Green Turtle [1765] Dermochelys coriacea	Vulnerable	Breeding likely to occur within area
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area

Name	Threatened	Type of Presence
Lagenorhynchus obscurus		
Dusky Dolphin [43]		Species or species habitat may occur within area
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Rhincodon typus		
Whale Shark [66680]	Vulnerable	Species or species habitat may 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 known to occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area
<u>Calidris canutus</u>		
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
Limosa lapponica		
Bar-tailed Godwit [844]		Species or species habitat known to 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 known 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]
The Commonwealth area listed below may indicate the the unreliability of the data source, all proposals should Commonwealth area, before making a definitive decision department for further information.	be checked as to whether	r it impacts on a
Name		
Commonwealth Land -		
Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on the		
Name Birds	Threatened	Type of Presence
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat known 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 known 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 likely to occur within area
Calidris canutus		
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
Catharacta skua		
Great Skua [59472]		Species or species habitat may occur within area
Cereopsis novaehollandiae grisea Cape Barren Goose (south-western), Recherche Cape Barren Goose [25978]	Vulnerable	Species or species habitat may occur within area
Chrysococcyx osculans		
Black-eared Cuckoo [705]		Species or species habitat likely to occur within area
Diomedea antipodensis		
Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea dabbenena		within area
Tricton Albotrocc [66471]	Endangered	Species or species habitat

Endangered

Vulnerable

Species or species habitat

Foraging, feeding or related behaviour likely to occur

may occur within area

within area

Tristan Albatross [66471]

Diomedea epomophora

Southern Royal Albatross [89221]

Name	Threatened	Type of Presence
Diomedea exulans Wandering Albatross [89223] Diomedea sanfordi	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
Larus pacificus Pacific Gull [811]		Foraging, feeding or related behaviour known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area
Puffinus assimilis Little Shearwater [59363]		Foraging, feeding or related behaviour known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Breeding known to occur within area
Sterna caspia Caspian Tern [59467]		Foraging, feeding or related behaviour known to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or

Name	Threatened	Type of Presence
		related behaviour may
		occur within area
Thalassarche cauta Tasmanian Shy Albatross [89224]	Vulnerable*	Foraging, feeding or related
Tasmanian Sny Albanoss [03224]	Vulliciable	behaviour likely to occur
		within area
Thalassarche impavida		
Campbell Albatross, Campbell Black-browed Albatross	Vulnerable	Species or species habitat
[64459]		may occur within area
Thalassarche melanophris		!
Black-browed Albatross [66472]	Vulnerable	Species or species habitat
		may occur within area
Thalassarche steadi		!
White-capped Albatross [64462]	Vulnerable*	Foraging, feeding or related
		behaviour likely to occur
Thinornis rubricollis		within area
Hooded Plover [59510]		Species or species habitat
		known to occur within area
		
Tringa nebularia Common Groonshank Groonshank [922]		On saids or anadica habitat
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
		illiony to oodal within area
Fish		
Acentronura australe Southorn Pygmy Pincherse [66185]		Charles or angelog habitat
Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area
		may oodi wiimi araa
Campichthys galei		<u>'</u>
Gale's Pipefish [66191]		Species or species habitat
		may occur within area
Heraldia nocturna		
Upside-down Pipefish, Eastern Upside-down Pipefish,		Species or species habitat
Eastern Upside-down Pipefish [66227]		may occur within area
Hippocampus breviceps		
Short-head Seahorse, Short-snouted Seahorse		Species or species habitat
[66235]		may occur within area
Histiogamphelus cristatus		
Rhino Pipefish, Macleay's Crested Pipefish, Ring-back		Species or species habitat
Pipefish [66243]		may occur within area
Lantaiahthua fiatularina		
<u>Leptoichthys fistularius</u> Brushtail Pipefish [66248]		Species or species habitat
Diusiitali Fipelisti [00240]		may occur within area
		,
Lissocampus caudalis Australian Smooth Dinefish Smooth Dinefish (66240)		O circon and a babitat
Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area
		may ood mam a.c.
<u>Lissocampus runa</u>		
Javelin Pipefish [66251]		Species or species habitat
		may occur within area
Maroubra perserrata		
Sawtooth Pipefish [66252]		Species or species habitat
		may occur within area
Nannocampus subosseus		
Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat
		may occur within area
Notiocampus ruber		
Red Pipefish [66265]		Species or species habitat
1.00 1 ipolioli [00200]		may occur within area
BI I a series a series a		
Phycodurus eques Leafy Seadragon [66267]		Species or appeids
Leafy Seadragon [66267]		Species or species

Name	Threatened	Type of Presence
Phylloptonyy taopialatus		habitat may occur within area
Phyllopteryx taeniolatus Common Seadragon, Weedy Seadragon [66268]		Species or species habitat may occur within area
Pugnaso curtirostris		
Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area
Solegnathus lettiensis		
Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Stigmatopora argus		
Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area
Stigmatopora nigra		
Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area
<u>Urocampus carinirostris</u>		
Hairy Pipefish [66282]		Species or species habitat may occur within area
Vanacampus margaritifer		
Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area
Vanacampus phillipi		
Port Phillip Pipefish [66284]		Species or species habitat may occur within area
Vanacampus poecilolaemus		
Longsnout Pipefish, Australian Long-snout Pipefish, Long-snouted Pipefish [66285]		Species or species habitat may occur within area
Mammals		
Arctocephalus forsteri		
Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat likely to occur within area
Neophoca cinerea		
Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat may occur within area
Reptiles		
Caretta caretta		B P P I (
Loggerhead Turtle [1763] <u>Chelonia mydas</u>	Endangered	Breeding likely to occur within area
Green Turtle [1765]	Vulnerable	Breeding likely to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata		Omenia
Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera edeni		
Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus		
Blue Whale [36]	Endangered	Species or species habitat likely to occur

Name	Status	Type of Presence
		within area
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area
Delphinus delphis		
Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis		
Southern Right Whale [40]	Endangered	Breeding known to occur within area
Grampus griseus		On a size and an arise babiles
Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Lagenorhynchus obscurus		
Dusky Dolphin [43]		Species or species habitat may occur within area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcinus orca		
Killer Whale, Orca [46]		Species or species habitat may occur within area
<u>Tursiops aduncus</u>		
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Down Road	WA
Gledhow	WA
Lake Powell	WA
Marbelup	WA
Mill Brook	WA
Phillips Brook	WA
Shelter Island	WA
Sleeman Creek	WA
Unnamed WA01998	WA
Unnamed WA23088	WA
Unnamed WA23923	WA
Regional Forest Agreements	[Resource Information]
Note that all areas with completed RFAs have been included.	
Name	State
South West WA RFA	Western Australia
Invasive Species	[Resource Information]

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

Name	Status	Type of Presence
Birds		
Anas platyrhynchos Mallard [974]		Species or species habitat likely to occur within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Streptopelia senegalensis Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Mammals		incery to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus		
Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Asparagus asparagoides		
Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Asparagus scandens Asparagus Fern, Climbing Asparagus Fern [23255]		Species or species habitat likely to occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Genista linifolia Flax-leaved Broom, Mediterranean Broom, Flax Broor [2800]	n	Species or species habitat likely to occur within area
Genista monspessulana Montpellier Broom, Cape Broom, Canary Broom,		Species or species

Name	Status	Type of Presence
Common Broom, French Broom, Soft Broom [20126]		habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara		
Lantana, Common Lantana, Kamara Lantana, Large- leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Lycium ferocissimum		
African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Pinus radiata		
Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within 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	reichardtii	
Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Ulex europaeus		
0		

Gorse, Furze [7693]

Species or species habitat likely to occur within area

Caveat

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

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

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

-34.929797 117.739282,-34.924801 117.752156,-34.934934 117.752242,-34.939296 117.727952,-34.93803 117.727008,-34.934512 117.726407,-34.929727 117.739282,-34.929797 117.739282

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.

CONSERVATION CODES

For Western Australian Flora and Fauna

Threatened, Extinct and Specially Protected fauna or flora¹ are species² which have been adequately searched for and are deemed to be, in the wild, threatened, extinct or in need of special protection, and have been gazetted as such.

The Wildlife Conservation (Specially Protected Fauna) Notice 2018 and the Wildlife Conservation (Rare Flora) Notice 2018 have been transitioned under regulations 170, 171 and 172 of the Biodiversity Conservation Regulations 2018 to be the lists of Threatened, Extinct and Specially Protected species under Part 2 of the Biodiversity Conservation Act 2016.

Categories of Threatened, Extinct and Specially Protected fauna and flora are:

T Threatened species

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

Threatened fauna is that subset of 'Specially Protected Fauna' listed under schedules 1 to 3 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for Threatened Fauna.

Threatened flora is that subset of 'Rare Flora' listed under schedules 1 to 3 of the *Wildlife Conservation (Rare Flora) Notice 2018* for Threatened Flora.

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

CR Critically endangered species

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

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

EN Endangered species

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

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

VU Vulnerable species

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

Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines. Published under schedule 3 of the *Wildlife Conservation (Specially Protected Fauna) Notice 2018* for vulnerable fauna or the *Wildlife Conservation (Rare Flora) Notice 2018* for vulnerable flora.

Extinct species

Listed by order of the Minister as extinct under section 23(1) of the BC Act as extinct or extinct in the wild.

EX Extinct species

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

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

EW Extinct in the wild species

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

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

Specially protected species

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

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

MI Migratory species

Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).

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

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

CD Species of special conservation interest (conservation dependent fauna)

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

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

OS Other specially protected species

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

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

P Priority species

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

Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

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

1 Priority 1: Poorly-known species

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

2 Priority 2: Poorly-known species

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

3 Priority 3: Poorly-known species

Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

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

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

¹ The definition of flora includes algae, fungi and lichens

²Species includes all taxa (plural of taxon - a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies or variety, or a distinct population).