

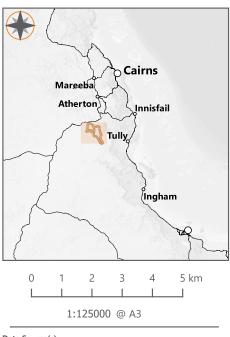


Chalumbin Wind Farm Potential Habitat for Platypus

Figure 8.9

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	Survey Observation
	Potential Habitat
	Major Road
	River
	Creek
	Lot Type Parcel
[]	Easement

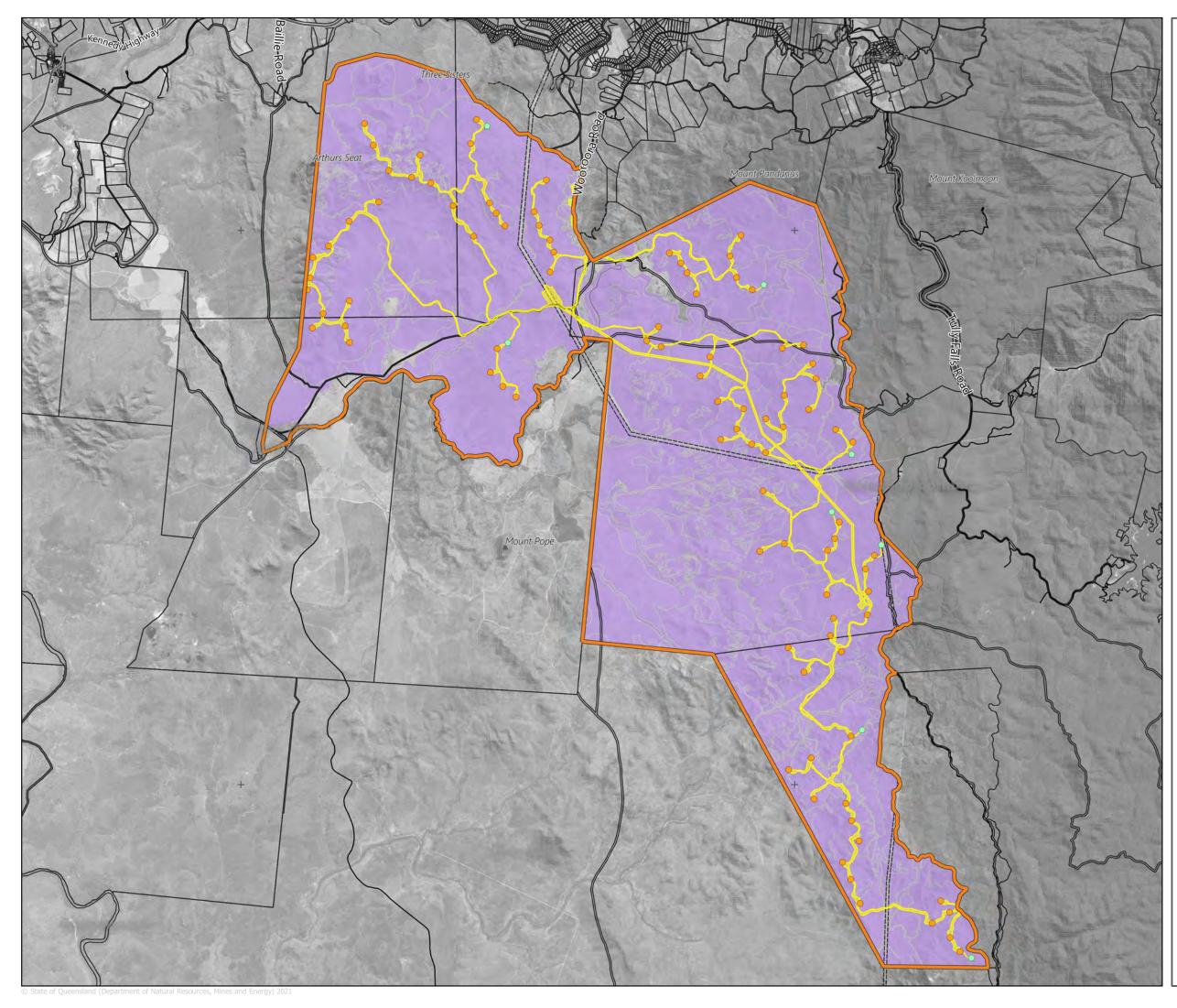
Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004





8.10 Short-beaked Echidna

The short-beaked echidna has very broad habitat requirements and could inhabit all remnant and regrowth vegetation across the Project area, as mapped in **Figure 8-10**.

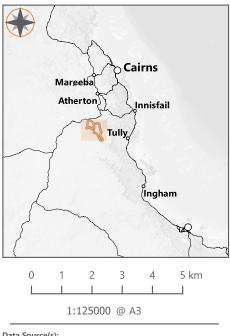


Chalumbin Wind Farm Potential Habitat for Shortbeaked echidna

Figure 8.10

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	Potential habitat
	Major Road
	Lot Type Parcel
[]	Easement

Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004

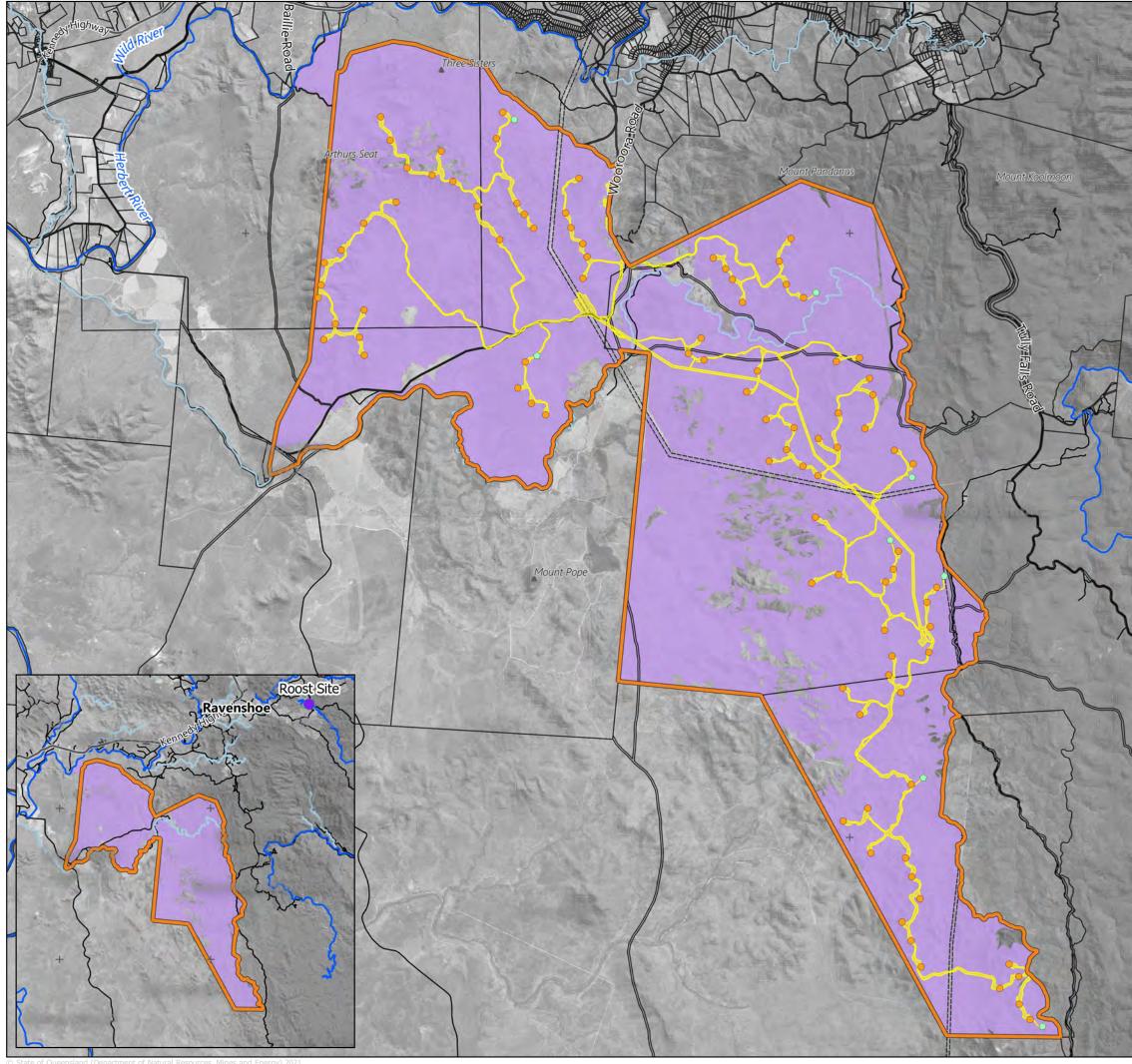




8.11 Spectacled Flying-fox

The spectacled flying-fox forages on a wide variety of rainforest and non-rainforest species, including eucalypts (*Eucalyptus* spp., *Corymbia* spp.) in tall open forests adjoining rainforest communities and in tropical woodland and savanna ecosystems. It will forage within 50 km of a camp and the Mabi Forest TEC is considered a key habitat for the spectacled flying-fox (SPRAT 2021).

The National Flying Fox Monitoring programme (DAWE 2021b) reports a spectacled flying-fox camp at Malaan, east of Ravenshoe and just outside the Study area. The desktop assessment also indicates the species' presence in the Ravenshoe Forest Reserve 1 which is within the Study area, and abuts the Project area immediately to the north. There is limited rainforest habitat within the Project area to support a camp, and none of its key foraging habitat (Mabi Forest TEC) has been ground-truthed within the Project area. Potential foraging habitat has been mapped as eucalypt forest within 50 km of the known camp at Malaan (**Figure 8-11**).





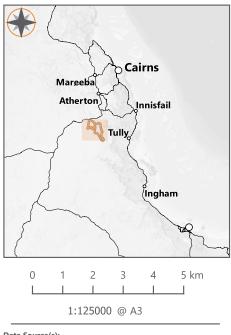
Attexó EPURON

Chalumbin Wind Farm Potential Habitat for Spectacled flying-fox

Figure 8.11

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	Roost Site
	Potential habitat
	Major Road
	River
	Creek
	Lot Type Parcel
]	Easement

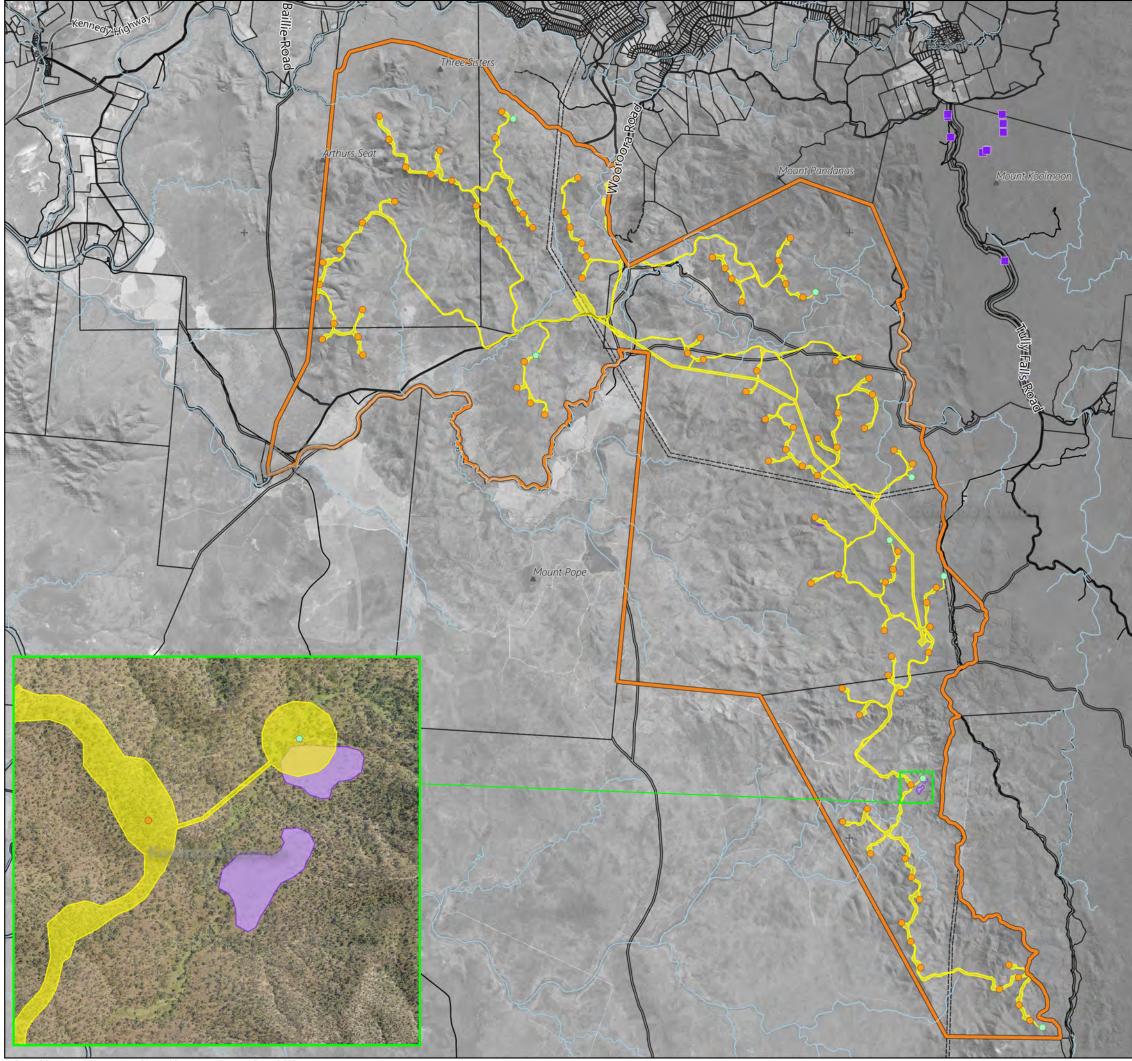
Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004





8.12 Southern Cassowary

The southern cassowary requires a high diversity of fruiting trees to provide year-round supply of fleshy fruit; the species occurs primarily in rainforests but also woodlands, melaleuca swamps, mangroves and beaches. The Recovery Plan for the Southern Cassowary (Latch 2007) identifies three categories of habitat for the southern cassowary (Essential Habitat, general habitat and rehabilitating habitat). The Recovery Plan lists 91 REs that comprise Essential Habitat for the southern cassowary, of which three have been ground-truthed within the Project area; REs 7.12.7, 7.3.8 and 7.8.7. These have been mapped as potential habitat for the southern cassowary in **Figure 8-12**.



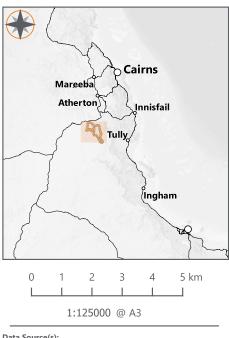


Chalumbin Wind Farm Potential Habitat for Southern Cassowary

Figure 8.12

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	Sightings (WildNet)
	Potential Habitat
	Watercourse Major
	Road
	Lot Type Parcel
]	Easement

Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004

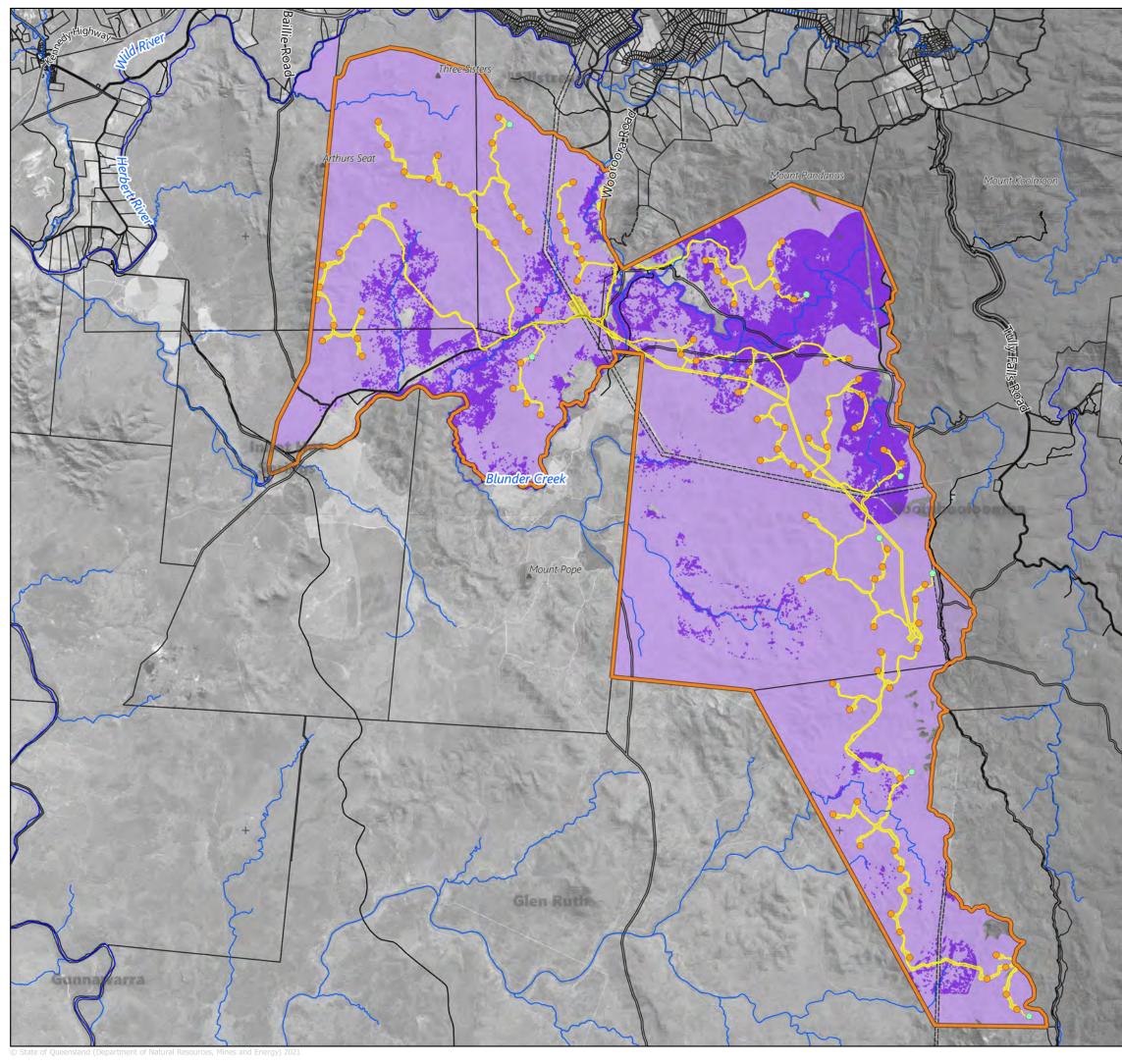




8.13 Red Goshawk

Red goshawks nest in trees that are taller than 20 m (DERM 2012) and within 1 km of a watercourse or wetland (TSSC 2015c). The species feeds primarily on birds and will forage over any Eucalypt dominated forests and woodlands. The following has been mapped across the Project area (**Figure 8-13**):

- Potential nesting habitat: trees > 20 m tall within 1 km of a watercourse <u>and</u> Eucalypt-dominated open forests and woodlands within 1 km of permanent water; and
- Potential foraging habitat: remainder of open forests within the Project area.



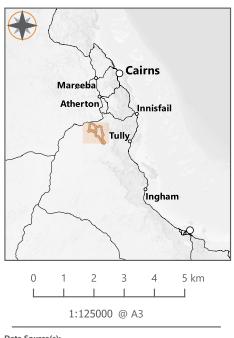


Chalumbin Wind Farm Potential Habitat for Red goshawk

Figure 8.13

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	Potential disused nest (January 2021)
	Potential nesting habitat
	Potential foraging habitat
	Major Road
	River
	Creek
	Lot Type Parcel
	Easement

Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004





8.14 White-throated Needletail

No mapping has been undertaken for white-throated needletail as this species could occur in any airspace over the Project area. It is a migratory species that occurs in Australia only during the summer months but is highly aerial and only rarely alights while in Australia (roosting in the canopy of mature trees).

8.15 Fork-tailed Swift

No mapping has been undertaken for the fork-tailed swift as this species could occur in any airspace over the Project area. It is a migratory species that does not breed in Australia. It exhibits foraging and movement that is completely aerial.

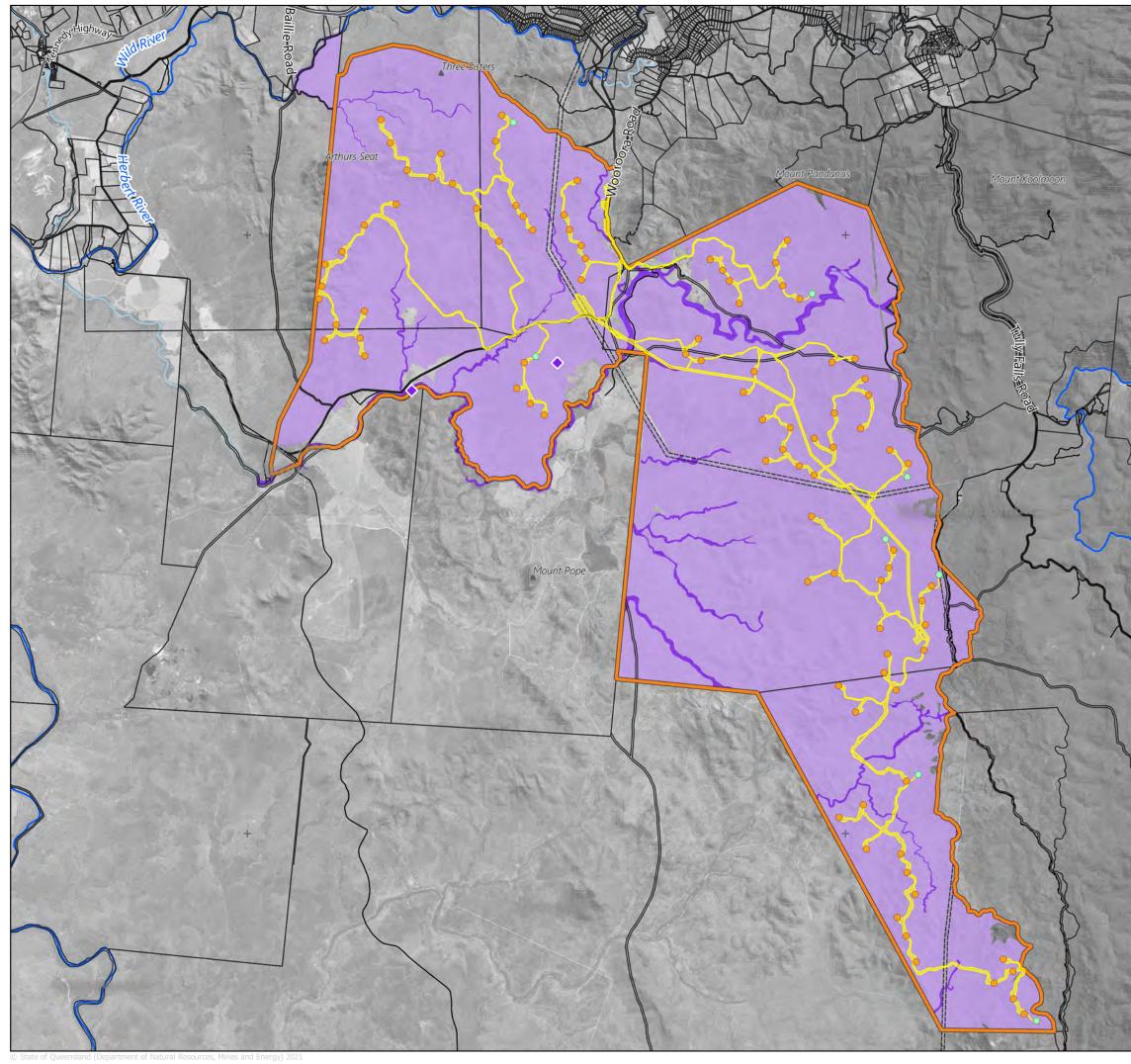
8.16 Masked Owl

The masked owl is known to use a range of habitat types in Queensland including riparian forest, rainforest, open forests, Melaleuca swamps and mangrove edges, as well as along the margins of sugar cane fields (SPRAT 2021).

It requires large old-growth trees with large hollows for nesting (SPRAT 2021). It usually nests in patches of closed forest and feeds largely on small to medium sized terrestrial mammals. The subspecies probably breeds in March-October and nests are 7-8 km apart (SPRAT 2021).

During field surveys, the species was observed (through calls) at two locations along Blunder Creek within the Glen Gordon property.

The majority of the Project area, with the exception of cleared areas and rainforest patches, comprises potential foraging habitat for the masked owl. It is dependent on tree hollows for nesting (Woinarski 2004). The riparian environments of the higher stream order waterways within the Project area comprise high value foraging, breeding and roosting habitat for the species. These areas have therefore been mapped as preferred habitat for the masked owl, see **Figure 8-14**.



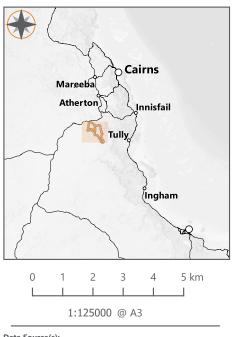


Chalumbin Wind Farm Potential Habitat for Masked owl

Figure 8.14

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
•	Survey Observation
	Preferred habitat
	Potential habitat
	Major Road
	River
	Creek
	Lot Type Parcel
[]	Easement

Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004



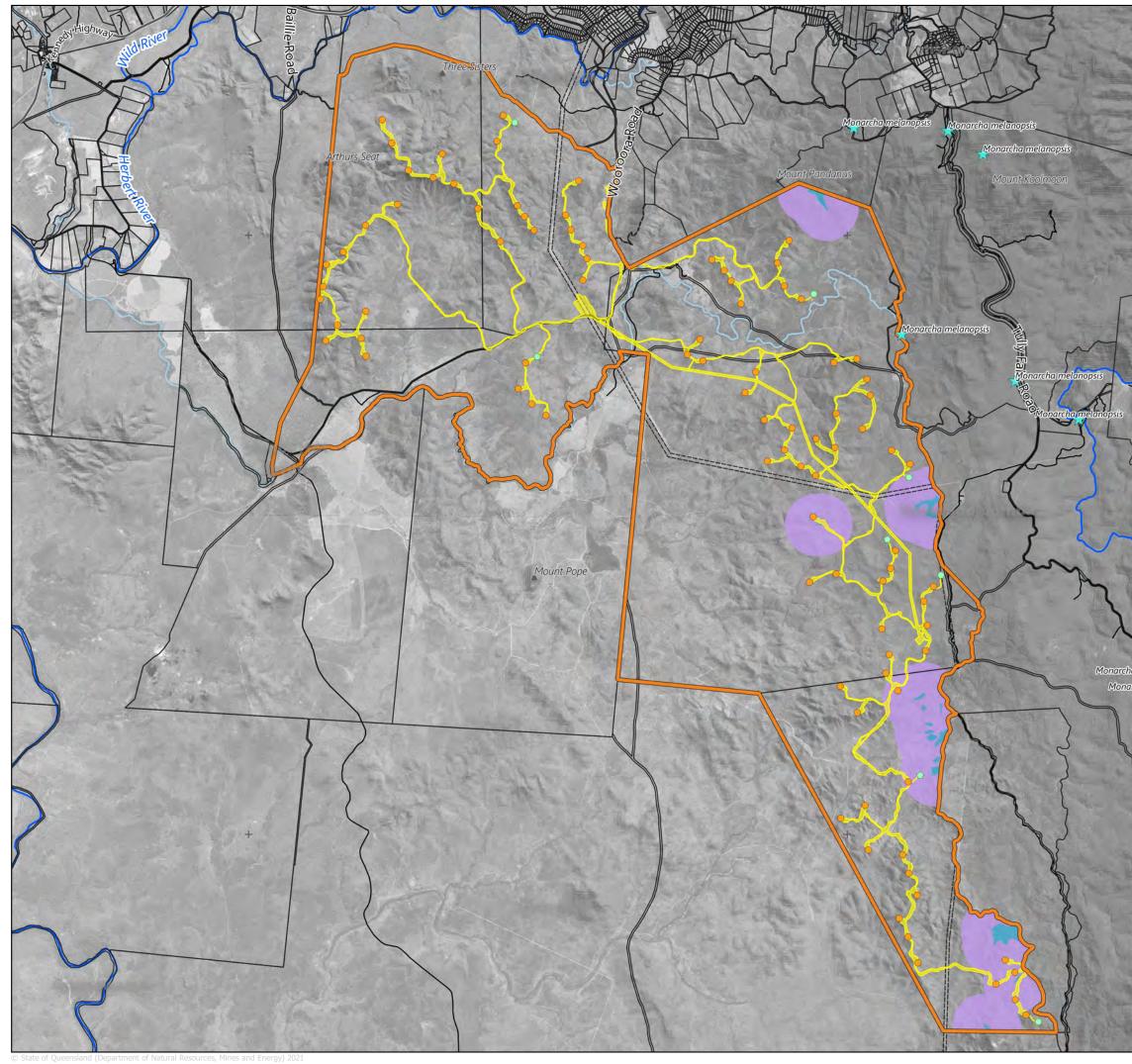


8.17 Black-faced Monarch

The black-faced monarch mainly occurs in rainforest ecosystems, including semi-deciduous vine-thickets, complex notophyll vine-forest, tropical (mesophyll) rainforest, subtropical (notophyll) rainforest, mesophyll (broadleaf) thicket/shrubland, warm temperate rainforest, dry (monsoon) rainforest and (occasionally) cool temperate rainforest. It is also sometimes found in nearby open eucalypt forests (mainly wet sclerophyll forests), especially in gullies with a dense, shrubby understorey as well as in dry sclerophyll forests and woodlands, often with a patchy understorey. It breeds in rainforest habitat and feeds mostly in rainforest but also in open eucalypt forest (SPRAT 2021).

The following habitat has been mapped for the black-faced monarch across the Project area (Figure 8-15):

- Preferred habitat rainforest communities (which are not prevalent within the Project area); and
- Potential habitat open eucalypt forest within 1 km of rainforests.





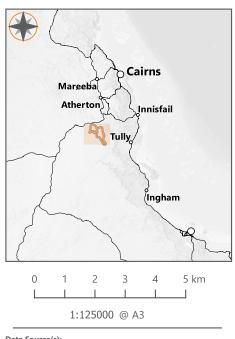
Attexó EPURON

Chalumbin Wind Farm Potential Habitat for Blackfaced monarch

Figure 8.15

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	Important habitat
	Potential habitat
\bigstar	Threatened Fauna
	Records (WildNET)
	Major Road
	River
	Creek
	Lot Type Parcel
]	Easement

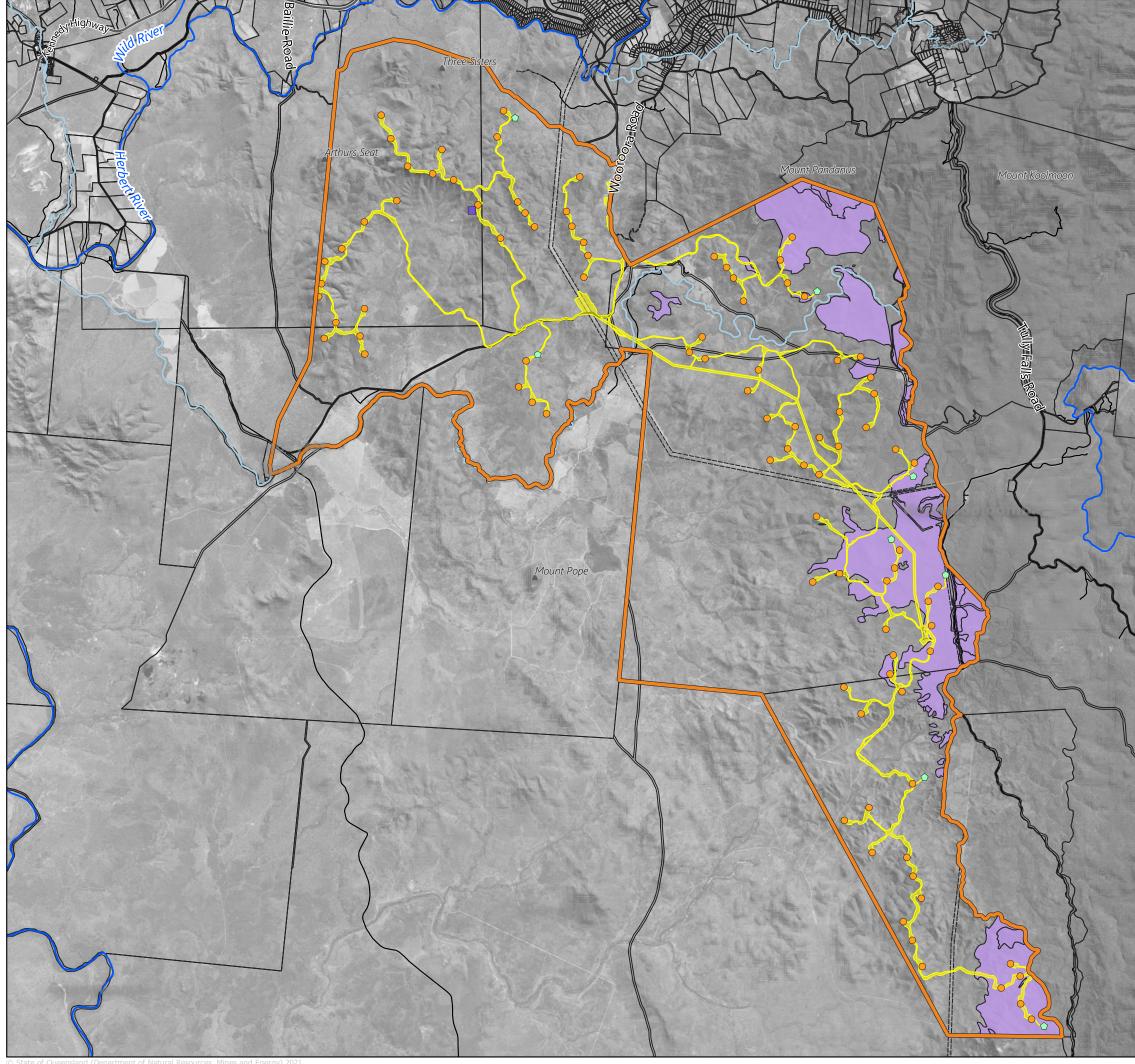
Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004





8.18 Rufous Fantail

The rufous fantail inhabits the dense, shady undergrowth of gullies in rainforest and wet sclerophyll forests. These have been mapped as preferred habitat, see **Figure 8-16**.



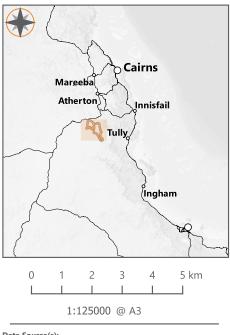


Chalumbin Wind Farm Rufous fantail Habitat

Figure 8.16

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	Observation
	Potential habitat
	Major Road
	River
	Creek
	Lot Type Parcel
[]	Easement

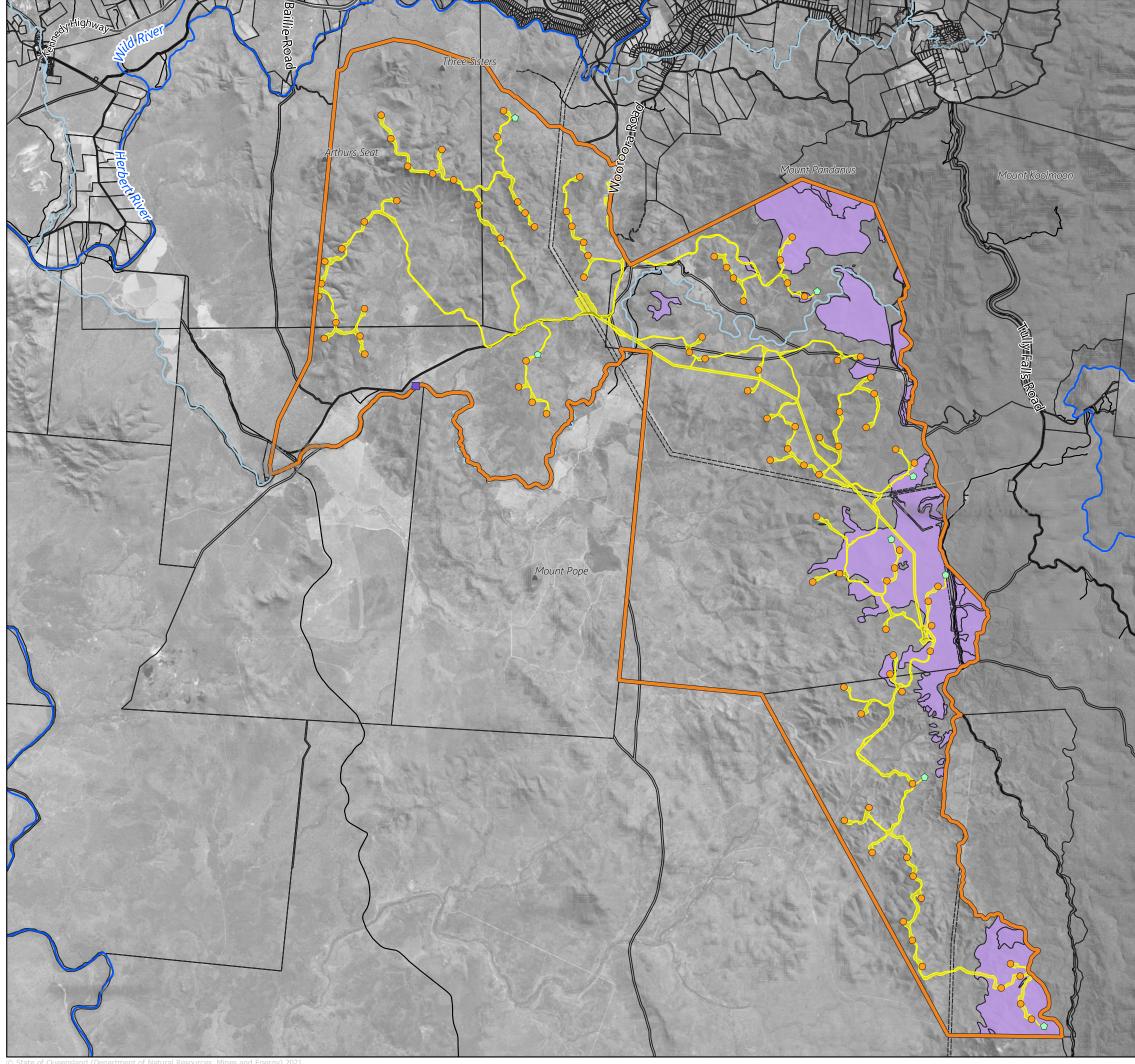
Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004





8.19 Spectacled Monarch

The spectacled monarch inhabits dense rainforests and moist eucalypt forests, including waterside vegetation and mangroves. These have been mapped as potential habitat, see **Figure 8-17**.



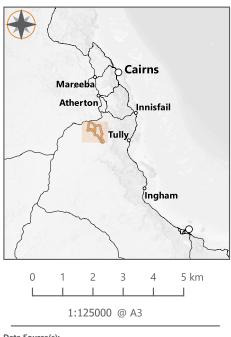


Chalumbin Wind Farm Spectacled monarch Habitat

Figure 8.17

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	Observation
	Potential habitat
	Major Road
	River
	Creek
	Lot Type Parcel
[]	Easement

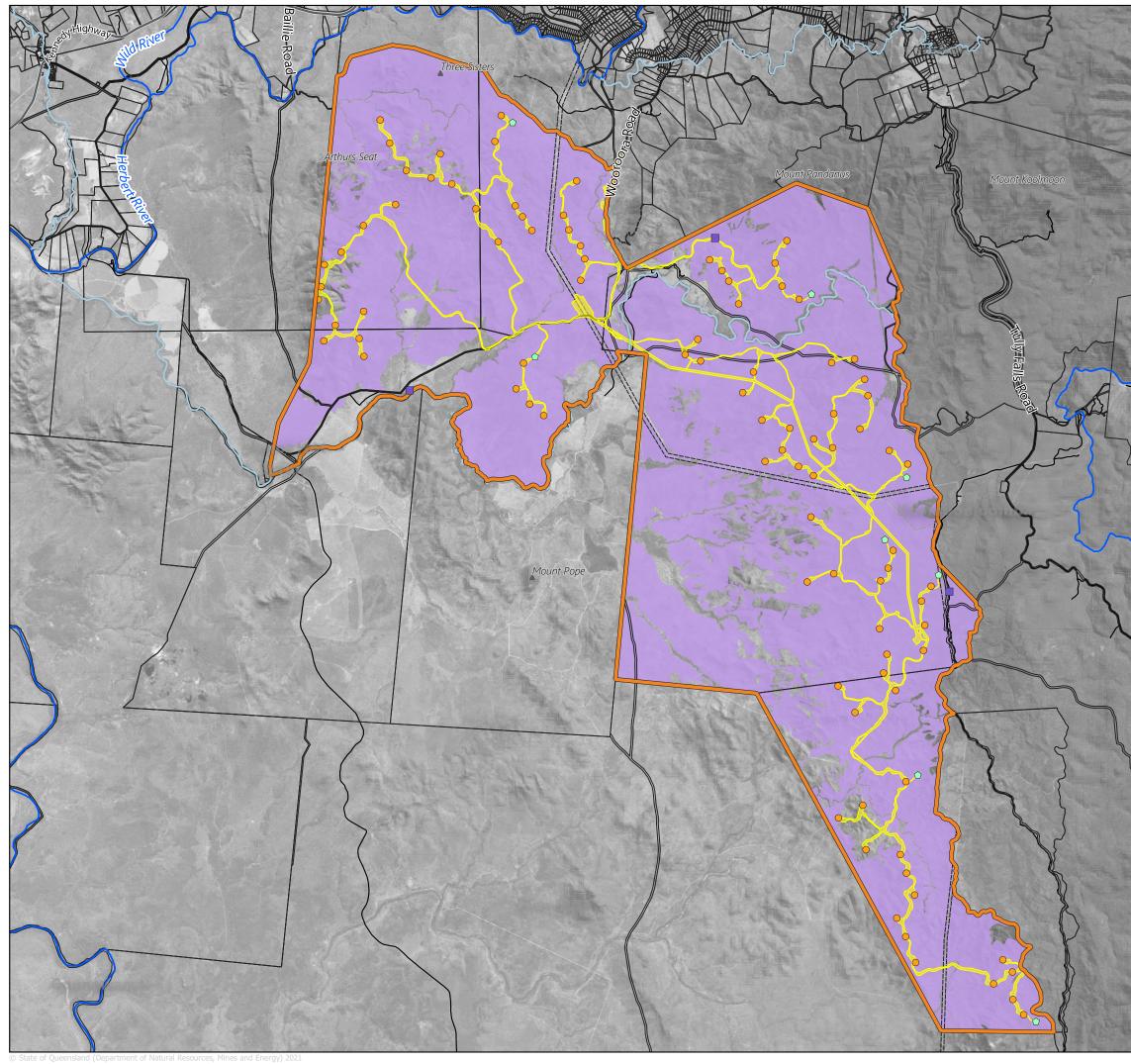
Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004





8.20 Satin Flycatcher

The satin flycatcher inhabits heavily vegetated gullies in eucalypt-dominated forests and taller woodlands (but not rainforests). These have been mapped as potential habitat, see **Figure 8-18**.



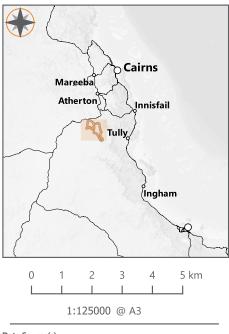


Chalumbin Wind Farm Satin flyctacher Habitat

Figure 8.18

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	Observation
	Potential habitat
	Major Road
	River
	Creek
	Lot Type Parcel
[]	Easement

Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004

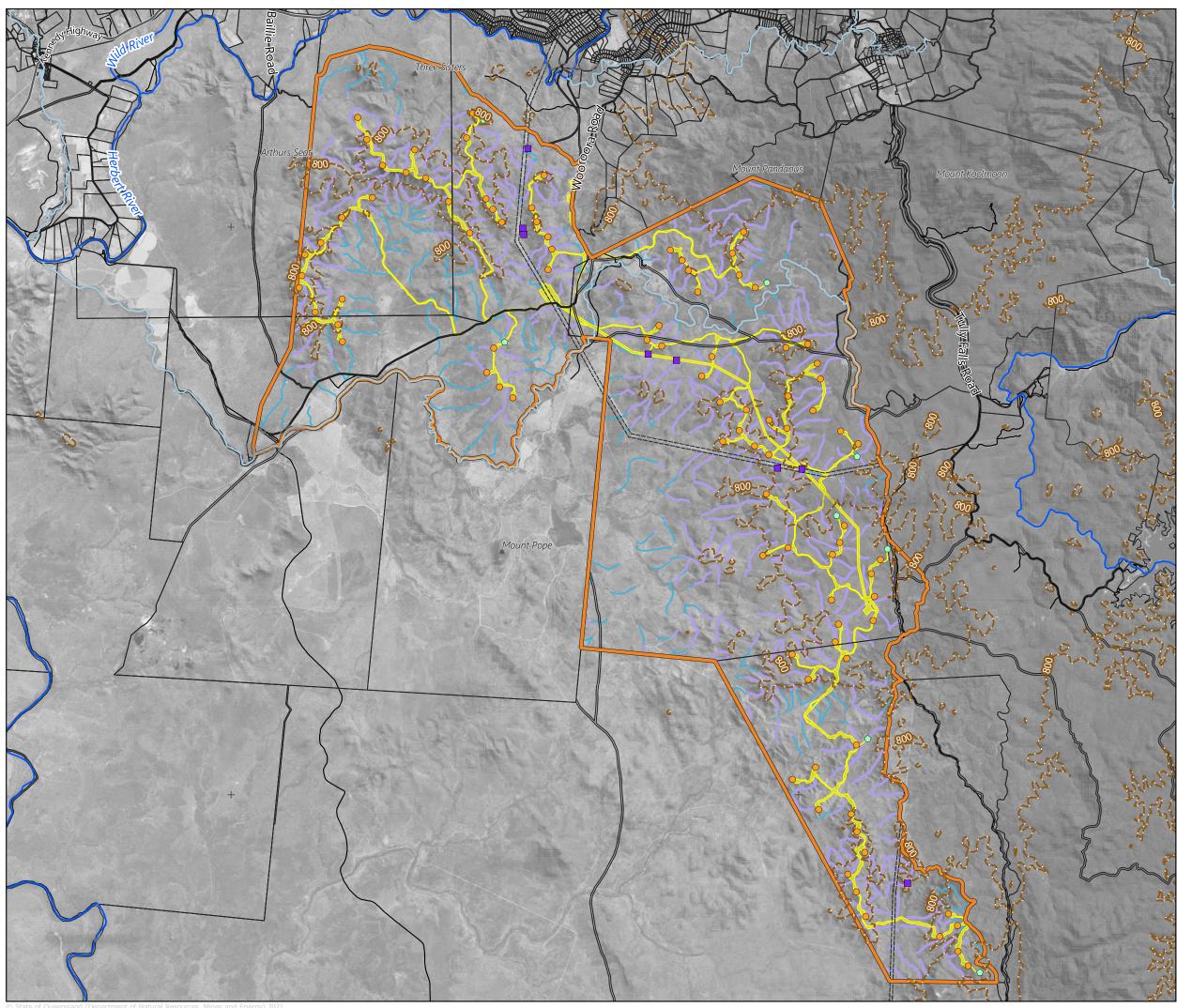




8.21 Magnificent Brood-frog

The magnificent brood-frog is range-restricted and is only known to occur on rhyolites of the Glen Gordon volcanics at altitudes greater than 800 m. During field surveys, the species was observed in nine locations, with two locations recording large groups of male frogs (15-20 individuals). Five of the nine recorded observations were below the 800 m contour, which contradicts the published lower limit of the species' range.

Open eucalypt forest within 50 m of a stream order 1 watercourse on rhyolites of the Glen Gordon volcanics was mapped as potential habitat for magnificent brood-frog across the Project area, see **Figure 8-19**.

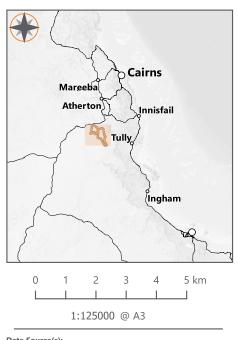


Chalumbin Wind Farm Potential Habitat for Magnificent brood-frog

Figure 8.19

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	800m Contour
	Survey Observation
	Preferred habitat
	Major Road
	River
	Creek
	Lot Type Parcel
[]	Easement

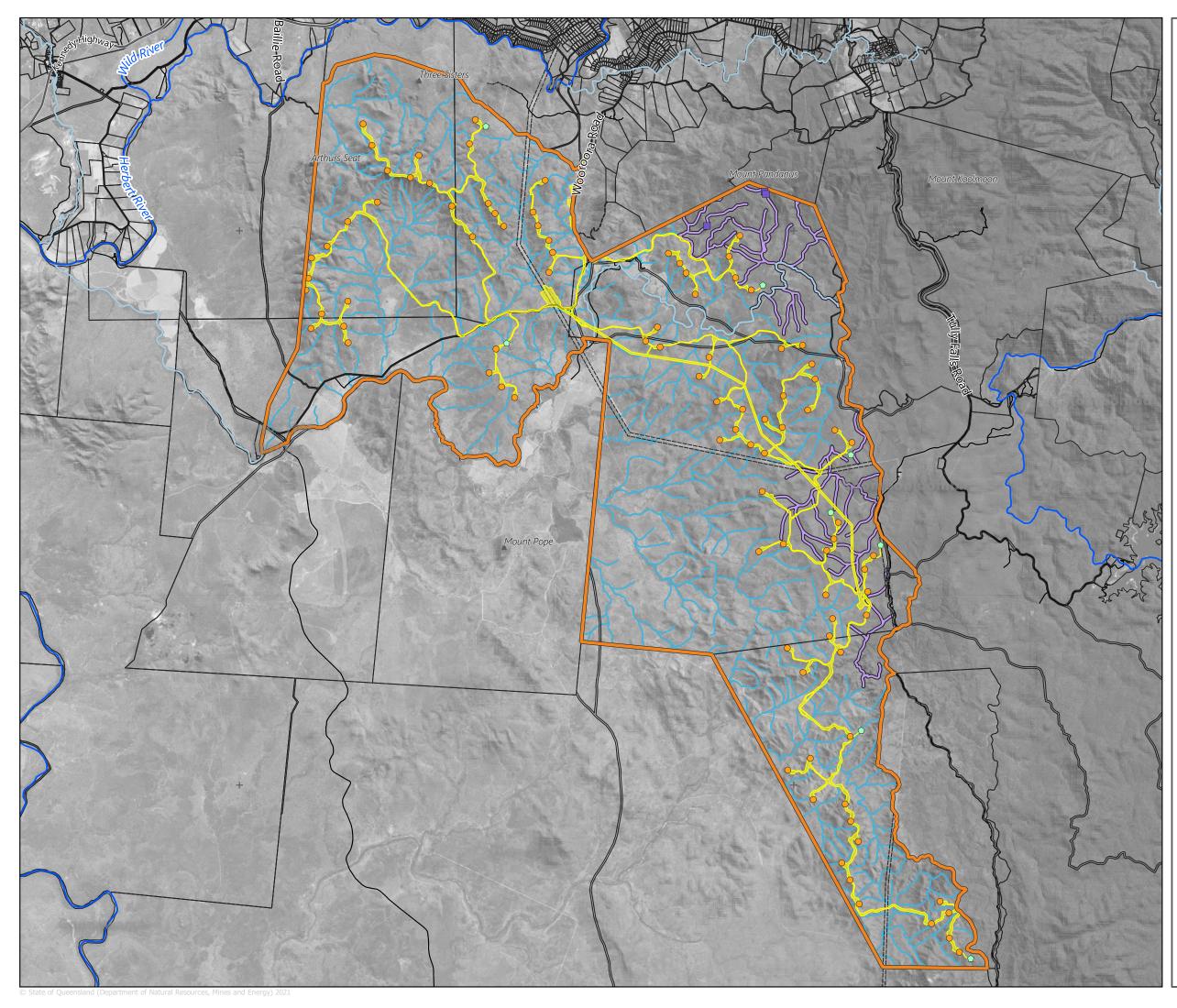
Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004





8.22 Tapping Green-eyed Frog

Creeks within rainforest and wet sclerophyll forest were mapped as potential habitat for the tapping green-eyed frog, as shown in **Figure 8-20**.

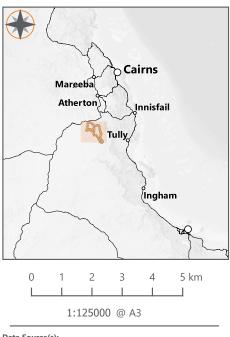


Chalumbin Wind Farm Potential Habitat for Tapping Green-Eyed frog

Figure 8.20

	Project Area
•	Wind Turbine
	Met-mast
	Project Footprint
	Threatened Fauna Record
	Potential Habitat
	Major Road
	River
	Creek
	Lot Type Parcel
[]	Easement

Date: 2021-12-12 Author: TOD Reviewed: CC Project: EPU-004



Users/Tim ODonnell/Attexo Group/Attexo - Documents/Projects/Epuron/EPU-004 - Chalumbin/GIS/4.3 Cartography/EPU-004_075[0].qgz



9.0 Impact Assessment

The following sections describe and quantify the potential impacts associated with construction and operation of the Project in broad terms. Significant impact assessments for MSES are presented in **Section 11.0**.

9.1 **Project Footprint**

The Project footprint has been defined based on the Project description in **Section 3.0**, including the extent of earthworks required to provide a maximum direct impact area. The Project footprint mapped and assessed within this report includes areas permanently required for infrastructure such as turbines, access roads, substations, etc., and the extent of earthworks required across the varying terrain. The Project footprint also accommodates required fire breaks around above-ground infrastructure such as turbines and overhead powerline poles. Some of the Project footprint will also include areas of temporary disturbance such as laydown areas that will be rehabilitated on completion of construction.

The total Project footprint is approximately 1,132 ha (3.58 % of the Project area). Within this, areas of temporary disturbance are estimated to be up to 25 % of the Project footprint, subject to detailed design. In many instances, the access track width required for operation of the Project will be less than that required for construction – where appropriate to do so, the access tracks will be reduced in width prior to operation, with those parts no longer required for operations to be rehabilitated.

The Project will not clear any additional habitat outside the maximum disturbance limits identified, but will have flexibility in certain locations to microsite infrastructure within the Project footprint in response to site-specific constraints, including ecological constraints such as large habitat trees.

9.2 Potential Construction Impacts

Throughout the construction phase the Project has the potential to impact MSES values via the following:

- Vegetation clearing resulting in loss of habitat;
- Habitat fragmentation and reduced connectivity;
- Fauna injury or mortality during vegetation clearing and potential entrapment in trenches when installing underground powerlines;
- Fauna injury or mortality due to vehicle strike;
- Wildlife disturbance due to dust, noise, light and vibration emissions;
- Reduced water quality due to erosion and sedimentation;
- Potential spills of hazardous materials;
- Introduction or increased prevalence of pests and weeds due to increased vehicle movements and vegetation clearing; and
- Increased risk of bushfire due to potential ignition sources on site associated with increased activity.

These are discussed in more detail in the following sections.



9.2.1 Vegetation Clearing

The Project area supports large areas of remnant vegetation dominated by open eucalypt woodland with small pockets of scattered rainforest communities close to the eastern boundary (i.e. closer to the Wet Tropics WHA). The Project has been designed to avoid any clearing of rainforest vegetation; therefore, threatened species specifically associated with these rainforest communities are not expected to be impacted.

Clearing of eucalypt woodland will reduce breeding, foraging and sheltering habitat for flora and fauna species, and the process of vegetation clearance has the potential to result in injury to or mortality of native fauna species. Some species are more sedentary and hence more susceptible to impacts than others. Conversely, more mobile species such as migratory birds are unlikely to be disturbed by vegetation clearing as they are able to disperse more easily.

The total estimated area of vegetation clearing is 1,079.4 ha of remnant vegetation and 1 ha of regrowth vegetation, as outlined in **Table 9-1**. Watercourse vegetation, wetland vegetation, connectivity and essential habitat have been assessed in accordance with the SRI Guideline (DSDIP 2014) and the results are discussed in **Section 11.0**.

RE	Description	Remnant (ha)	Regrowth (ha)		
Least Concern	Least Concern (VM Act Status)				
7.3.8	<i>Melaleuca viridiflora</i> (broad leaf tea tree) +/- <i>Eucalyptus</i> spp. +/- <i>Lophostemon suaveolens</i> (swamp mahogany) open forest to open woodland. Humic gleyed texture contrast soils with impeded drainage, on alluvial plains.	0.9	0		
7.3.16	<i>Eucalyptus platyphylla</i> woodland to open forest on alluvial plains. Gently sloping to flat, moderately to poorly drained alluvial lowlands, foot slopes and piedmont fans.	3.4	0		
7.12.27a	<i>Eucalyptus reducta</i> medium open forest and woodland. Uplands and highlands on shallow granitic and rhyolitic soils, of the moist rainfall zone.	155.3	0		
7.12.27c	<i>Eucalyptus resinifera</i> and <i>Syncarpia glomulifera</i> open woodland. Uplands and highlands on shallow granitic and rhyolitic soils, of the moist rainfall zone.	80.6	0		
7.12.29a	Corymbia intermedia, Eucalyptus tereticornis, E. drepanophylla open forest to low open forest and woodland with Allocasuarina torulosa, A. littoralis, Lophostemon suaveolens, Acacia cincinnata, A. flavescens, Banksia aquilonia, and Xanthorrhoea johnsonii. Uplands, on granite and rhyolite.	11.6	0		
7.12.30a	Corymbia citriodora, Eucalyptus portuensis, C. intermedia, Syncarpia glomulifera woodland to low woodland to open forest with Callitris intratropica, Acacia calyculata and Xanthorrhoea johnsonii. Uplands and highlands, of the most and dry rainfall zones.	61.5	0		

Table 9-1 Summary of Vegetation Clearing



RE	Description	Remnant (ha)	Regrowth (ha)
7.12.34	<i>Eucalyptus portuensis</i> and/or <i>E. drepanophylla</i> +/- <i>C. intermedia</i> +/- <i>C. citriodora</i> , +/- <i>E. granitica</i> open woodland to open forest on uplands on granite		0
7.12.65	Rock pavement or areas of skeletal soil on granite and rhyolite of dry western or southern areas +/- shrublands to closed forests of Acacia spp. and/or Lophostemon suaveolens and/or Allocasuarina littoralis and/or Eucalyptus lockyeri subsp. exuta.		0
7.12.65k	Granite and rhyolite rock outcrop, of dry western areas, associated with shrublands to closed forests of <i>Acacia</i> spp. and/or <i>Lophostemon</i> spp. and/or <i>Allocasuarina</i> spp. Dry western areas. Granite and rhyolite.		0
9.5.5a	Mixed woodland to open forest of <i>Eucalyptus crebra</i> (narrow-leaved ironbark), <i>Corymbia clarksoniana</i> (Clarkson's bloodwood) and <i>C. citriodora</i> subsp. <i>citriodora</i> (lemon-scented gum) +/- <i>E. portuensis</i> (white mahogany) with a generally open sub-canopy of canopy species +/- <i>Callitris intratropica</i> (cypress pine) and <i>Acacia</i> spp. The open shrub layer often contains juvenile canopy species, <i>Petalostigma pubescens</i> (quinine), <i>Acacia flavescens</i> (powder puff wattle) and other <i>Acacia</i> spp. <i>Themeda triandra</i> (kangaroo grass) is the dominant species in a dense grassy ground layer. Occurs on Tertiary plateaus and remnants.		0
9.3.15	Fringing woodland to open forest containing any combination of <i>Casuarina cunninghamiana, Eucalyptus tereticornis</i> and <i>E. platyphylla</i> +/- Lophostemon suaveolens +/- Nauclea orientalis +/- Corymbia tessellaris +/- C. clarksoniana. There is often a low sub-canopy layer which can include canopy species and Ficus spp. The open shrub layer contains juvenile canopy species and can include mesic species such as <i>Euroschinus falcatus, Acacia mangium</i> and <i>Syzygium sp</i> . The ground layer is medium to dense grassy and contains <i>Imperata cylindrica, Crotalaria sp., Heteropogon contortus, Cyperus spp.</i> and <i>Paspalum spp.</i> Occurs on stream banks and channels in areas of higher rainfall in the central east of the bioregion.	2.7	0
9.3.16	<i>Eucalyptus tereticornis</i> and/or <i>E. platyphylla</i> and/or <i>Corymbia clarksoniana</i> woodland on alluvial flats, levees and plains.	6.4	0
9.12.2	<i>Eucalyptus portuensis, Corymbia citriodora</i> subsp. <i>citriodora, E. granitica</i> or <i>E. crebra, C. intermedia</i> or <i>C. clarksoniana</i> mixed woodland on steep hills and ranges on igneous hills close to Wet Tropics boundary.	291.7	0
9.12.4	Low open woodland to woodland of <i>Eucalyptus shirleyi</i> +/- <i>Corymbia peltate</i> +/- <i>Callitris intratropica</i> . The mid layer varies from absent to a mid-dense sub-canopy and/or shrub layer and the ground layer is dense and grassy. Occurs predominantly on sandy shallow soils derived from igneous rocks on rolling low hills to hills.	0.6	0

Of Concern



RE	Description	Remnant (ha)	Regrowth (ha)
7.3.26	<i>Casuarina cunninghamiana</i> woodland to open forest on alluvium fringing streams.		0
7.3.43	<i>Eucalyptus tereticornis</i> open forest to woodland on uplands on well-drained alluvium		0.4
7.3.43a	<i>Eucalyptus tereticornis</i> open forest, tall open forest and woodland including communities ranging from those dominated by <i>E. tereticornis</i> to mixtures of that species with <i>Corymbia intermedia</i> , <i>E. drepanophylla</i> , <i>Lophostemon suaveolens</i> and <i>Allocasuarina torulosa</i> . Uplands on alluvium. Contains palustrine wetland (e.g. in swales).		0
7.8.7a	<i>Eucalyptus tereticornis</i> open forest, tall open forest and woodland. May also include <i>Corymbia intermedia</i> , <i>E. drepanophylla</i> , <i>Lophostemon suaveolens</i> and <i>Allocasuarina torulosa</i> . Uplands and highlands on basaltic krasnozem and prairie soils, of the moist rainfall zone.		0
7.8.10	<i>Eucalyptus tereticornis, E. drepanophylla</i> (or <i>E. granitica</i>), <i>E. portuensis, Corymbia intermedia</i> woodland to open forest, or <i>E. moluccana</i> woodland to open forest, of uplands and highlands on basalt.		0
7.8.18d	Lophostemon suaveolens woodland and open forest.	0.1	0
7.12.52	<i>Eucalyptus resinifera</i> , <i>Corymbia intermedia</i> , <i>Allocasuarina littoralis</i> , <i>Syncarpia glomulifera</i> , <i>E. drepanophylla</i> +/- <i>E. reducta</i> woodland on granite and rhyolite in the dry to moist rainfall zone		0
7.12.57	Shrubland and low woodland mosaic with Syncarpia glomulifera, Corymbia abergiana, Eucalyptus portuensis, Allocasuarina littoralis and Xanthorrhoea johnsonii on uplands and highlands on granite		0
7.12.57a	Shrubland and low woodland mosaic with <i>Syncarpia glomulifera</i> , <i>Corymbia abergiana</i> , <i>Eucalyptus portuensis</i> , <i>Allocasuarina littoralis</i> and <i>Xanthorrhoea johnsonii</i> . Uplands and highlands on granite and rhyolite, of the moist and dry rainfall zones.	27.5	0
7.12.66	<i>Lophostemon confertus</i> (brush box) low shrubland or low to medium closed forest. Exposed rocky slopes on granite and rhyolite.	23.4	0
Endangered			
7.8.19	Corymbia clarksoniana open forest to woodland on basalt.	3.4	0.7
Total		1,079.4	1.1

 Table 9-2 presents a summary of other MSES values within the Project footprint.



MSES	Description of MSES	Area within Project Footprint
Protected Wildlife Habitat	Coleus amoenus	23.65 ha
[Endangered, Vulnerable and Special Least Concern species listed under the NC Act –	Koala	23.64 ha preferred habitat 494.49 ha potential habitat
provided for MSES species known or likely to occur in the Project area]	Greater glider	63.23 ha preferred habitat 479.62 ha potential habitat
	Spotted-tailed quoll	170.41 ha potential habitat
	Platypus	2.73 ha potential habitat
	Short-beaked echidna	1,080.35 ha potential habitat
	Spectacled flying-fox	1,024.62 ha potential foraging habitat
	Red goshawk	147.95 ha preferred nesting habitat 932.4 ha potential foraging habitat
	White-throated needletail	1,080.35 ha potential habitat
	Fork-tailed swift	1,080.35 ha potential habitat
	Masked owl	6.45 ha preferred roosting habitat 1,070.97 ha potential foraging habitat
	Black-faced monarch	83.11 ha potential habitat
	Rufous fantail	170.29 ha potential habitat
	Spectacled monarch	170.29 ha potential habitat
	Satin flycatcher	1,080.35 ha of potential habitat
	Magnificent brood-frog	54.43 ha potential habitat
High-risk Trigger Mapping	High-risk areas identified in flora survey trigger mapping as described by the <i>Environmental</i> <i>Offsets Regulation 2014</i> , schedule 2.	358.08 ha
Fish Passage	Works proposed across waterways within the Project area (i.e. access tracks) may have an impact on fish passage.	5.27 km

Table 9-2 Other MSES Habitat Values within the Project Footprint



9.2.2 Habitat Fragmentation

Terrestrial habitat connectivity may be reduced as a result of the Project due to linear clearing, which may reduce fauna movements between areas of retained remnant vegetation. This habitat fragmentation will be more prominent where clearing widths are larger and intersect intact areas of vegetation. Clearing linear widths through habitats also has the potential to isolate plant populations by causing barriers to the dispersal of seeds and fruit, and to increase edge effects (additional light entering the forest, weed encroachment, increased feral animal abundance and increased risk of bushfire), thereby reducing the ecological functioning of those areas.

Some species are more prone to the impacts of fragmentation, such as greater gliders which are not able to traverse larger cleared areas. The maximum known gliding distance for a greater glider is 100 m (DELWP 2019); however, given the slopes and relatively short tree heights across much of the Project area, clearings less than 100 m wide are likely to act as a barrier to this species' movement. Other species (such as masked owl) are less likely to be affected by clearings of this size and will disperse quite readily across access tracks and powerline easements.

Fragmentation impacts will be somewhat temporary as a substantial proportion of the clearing for the access roads and other infrastructure elements is likely to be rehabilitated on completion of construction (subject to detailed design). Further details on site rehabilitation are provided in **Section 10.0** and will be outlined in a Rehabilitation Management Plan. It is anticipated that the proponent will need to further explore these post-construction rehabilitation opportunities as part of any forthcoming development permit conditions, as well as to respond to the requirements of the Public Environment Report Guidelines under the EPBC Act.

9.2.3 Fauna Injury or Mortality

Direct fauna injury or mortality may occur as a result of the Project during vegetation clearing (e.g. through removal of mature trees containing hollows), vehicle collision or through entrapment in trenches.

Mortality from tree clearing is a greater risk for nocturnal arboreal mammals such as the greater glider, whereby mortality may occur from removal of hollow-bearing trees which provide daytime denning habitat for the species.

Excavations will be required to create trenches in which underground cables will be carried, and to allow construction of turbine pads and access roads. This will involve removal of ground vegetation, soil and rock which provide fauna habitat (e.g. denning sites in rocky areas). During trenching activities there is potential for fauna to fall into and become trapped in open trenches, where they may perish or become subject to increased predation risk. Particularly susceptible species groups include reptiles, frogs and small mammals.

Increased traffic around the Project area has the potential to kill or injure fauna on impact. Some ground-dwelling or slow-moving species may be particularly susceptible to these impacts.

9.2.4 Reduced Air Quality

Increased dust from vegetation clearing, earthworks and vehicle movements during construction has the potential to temporarily and locally impact flora and fauna values in the vicinity of the Project footprint. Excess generation of dust and subsequent deposition on leaves can impair plant photosynthesis and productivity, resulting in reduced habitat quality for fauna. Increased dust can also impact on respiratory systems of fauna, alter soil properties impacting on plant species assemblages and reduce water quality in aquatic habitats.

Dust is expected to only be a potential issue during vegetation clearing and construction.



9.2.5 Noise and Vibration

Noise may adversely affect fauna by interfering with communication (e.g. territorial bird song), masking the sound of predators and prey, causing avoidance reactions and displacement from habitat. Construction noise will be generated by the Project through the use of machinery, plant and vehicles, and will vary from short intermittent noise from plant and equipment to more persistent noise from generators. The generation of construction noise may be in areas which have the potential to support threatened fauna species. Individuals that occur within the Project area may leave the area of impact. Project construction works and therefore potential noise impacts will be temporary.

Vibration from vehicles and equipment may cause temporary disturbance to fauna, and displacement or structural damage to boulder piles, rock fissures and caves which form habitat for fauna. Blasting may be required for construction of some pads and access roads depending on geological constraints, and obligate cave-dwelling bats would be particularly susceptible to vibration impacts from blasting.

9.2.6 Light Emissions

Artificial lighting from infrastructure and machinery may impact fauna within the Project area during construction. Artificial lighting can have a range of impacts which vary between species. Artificial light can disrupt patterns of both nocturnal and diurnal species by eliciting responses. Some species may avoid brightly lit areas, potentially due to the perception of being increased risk of predation. Conversely, some species such as nocturnal reptiles, frogs and bats may congregate at artificial light sources to feed on insects attracted to light.

Other potential adverse impacts include disruption of breeding and migratory patterns, disorientation and potential collision with structures.

9.2.7 Erosion and Sedimentation

The main construction activities that could impact on water quality are excavations and earthmoving for construction of turbine pads and access roads. This may lead to erosion and sedimentation, reduction in water quality and changes to water flows.

During construction activities, sediment may be mobilised and transported by surface water during rainfall events, ultimately discharging into watercourses and drainage lines and potentially reducing water quality in downstream aquatic habitats. Increased suspended sediments can reduce light penetration into the water column, reducing photosynthesis of aquatic macrophytes and decreasing dissolved oxygen levels. However, many creek lines in the Project area are ephemeral, which may reduce the magnitude of these impacts.

Changes in the hydrology of the Project area may occur through alteration of surface flows and stormwater runoff, including obstruction of flow. This can result in scouring or waterlogging occurring in some areas.

The accidental release of pollutants (including leaks and other uncontrolled releases) into the surrounding environment and waterways has the potential to degrade aquatic habitat quality in the Project area and impact vegetation communities and fauna utilising these areas. This includes direct toxic impacts on fauna from ingestion or inhalation. Without mitigation, contaminants may enter waterways including oily wastewater (from heavy equipment cleaning), contaminated runoff from chemical or fuel storage areas and general washdown water.

9.2.8 Hazardous Materials

Project activities have the potential to result in accidental releases of hazardous materials, such as fuels and oils from vehicles and machinery. These hazardous materials can lead to localised soil contamination and contamination of



water resources, which in turn can cause injury, reduced vigour or mortality to flora and fauna. The severity of the impact is dependent on the location and magnitude of the release.

9.2.9 Pests and Weeds

Project activities have the potential to increase the abundance of pest flora in the Project area and facilitate dispersal of species to previously unaffected areas. Movement of vehicles, equipment and personnel throughout the Project area is the key vector of transmission, in particular vehicles and equipment sourced from regions beyond the Project area which may introduce new species. Many weed species thrive on disturbed ground and will rapidly colonise disturbed areas in advance of native species recolonisation.

Increased pest flora abundance has adverse impacts on native vegetation and biodiversity, as well as potential negative economic effects on local land uses such as grazing activities.

Project-related activities may also increase pest fauna abundance in the Project area. This can lead to increased competition with, and predation of native fauna. In addition, habitat degradation may occur through vegetation trampling (e.g. feral pig wallowing). Creation of new access points into areas of intact vegetation may create pathways for feral fauna species to disperse. Uncontained waste sources may also attract feral fauna such as wild dogs.

9.2.10 Bushfire Risk

Fire is a natural part of the Australian landscape, and most vegetation communities are adapted to periodic fires. However, changes in the natural fire regime may result in changes in the species composition and / or structure of the vegetation. The increased presence of construction vehicles and personnel in the Project area may increase fire risk through use of machinery that may generate sparks, use of flammable liquids and idling vehicles being present in areas of ground vegetation.

9.3 **Potential Operational Impacts**

Throughout the operational phase, the Project has the potential to impact on MSES via the following:

- Fauna injury or mortality due to vehicle strike;
- Collision with turbines towers, blades and powerlines;
- Barotrauma;
- Wildlife disturbance due to noise and light emissions;
- Potential spills of hazardous materials;
- Increased pests and weeds due to increased vehicle movements; and
- Increased risk of bushfire due to potential ignition sources on site associated with increased activity.

These are discussed in more detail in the following sections.



9.3.1 Vehicle Strike

Increased traffic around the Project area has the potential to kill or injure fauna on impact although traffic levels will be greatly reduced from the construction phase and more geared towards light vehicles. Ground dwelling or slow-moving species may be particularly susceptible to traffic impacts.

9.3.2 Collision Risk

Potential impacts to threatened and migratory species, and other species groups of concern (e.g. microbats, raptors and waterfowl) may occur through direct collision with turbine towers and blades and associated powerlines, but also through flying through the "wake" behind the turbine. Many species will rarely, if ever, fly at rotor height while others will do so routinely. Different types of flight (e.g. soaring, direct flight, hovering) and different speeds of flight also will pose a different risk of collision.

Turbine siting will influence collision risk, with turbines located near wetlands likely to lead to greater risk of collision with birds and bats which congregate near wetland habitats. Turbines located on ridgelines and in valleys or other topographical features which may "funnel" birds and bats through a narrow pathway, may also pose a greater risk of collision.

Other factors that attract birds and bats to the proximity of turbines include an increase in perching habitat (from powerlines or the turbine structure itself), increased lighting that increases insect abundance around turbines, and the presence of carcasses around the base of turbines (attracting raptors and corvids in particular).

Generally, species at higher risk of collision are likely to comprise:

- Raptors this group take advantage of updrafts associated with ridgelines to move around. Raptor species were reasonably well represented in the diurnal bird surveys, with observations of collared sparrowhawk, brown goshawk, grey goshawk, wedge-tailed eagle, Pacific baza, whistling kite, brown falcon and peregrine falcon.
- Migratory swifts both white-throated needletail and fork-tailed swift were recorded during the field surveys and will routinely fly at RSA height.
- Waterfowl (ducks, cormorants, terns, herons, etc.) these species are generally prone to collision due to their often-direct nature of flight, flight height and lower manoeuvrability than other species. No significant wetlands are present within the Project area and this group was not well represented in the diurnal bird surveys, with minimal observations of Australian wood duck, Pacific black duck, white-necked heron and white-faced heron.
- Migrating passerines and other species migratory passerines routinely fly at RSA height. The Project area is not considered to be located in a significant corridor for passerine movement.
- High-flying or migratory/nomadic microbats many species forage at or below canopy height, but some species forage well above canopy height (e.g. some of the freetail and sheathtail species).

9.3.3 Barotrauma

Mortality from near-contact collision in the form of barotrauma is known to primarily affect microbat species. Barotrauma is associated with low air pressure produced in the wake of moving blade-tips in the form of vertices. These vertices increase in size and decompression gradients with increasing blade velocity. The sudden change in air pressure associated with the vertices is known to damage the internal air-containing tissues of microbats such as lungs when entering a fast-moving turbine wake, typically causing internal haemorrhaging resulting in death. This form of mortality may account for up to 50 % of all microbat deaths associated with wind farms in locations where



microbats are common. Rapid air pressure changes are largely an undetectable hazard and it is thought that microbats are more susceptible to fatal barotrauma than other groups due to particular anatomical features such as large lungs to body ratios and specialised vascular system to power high-energy flight (Baerwald et al. 2008).

9.3.4 Noise and Light Emissions

The mechanisms for operational impacts from noise and lighting are as described in **Section 9.2.5** for construction, although the potential for significant noise generating activities is greatly reduced.

Artificial lighting from infrastructure may impact fauna within the Project area during operation of the Project. In particular, artificial light can disrupt patterns of both nocturnal and diurnal species by eliciting responses. Some species may avoid brightly lit areas, potentially due to the perception of an increased risk of predation. Increased lighting of turbines may increase the presence of insects and in turn lead to an increased risk of collision with turbines for bats and birds. As presented in the Aeronautical Impact Assessment (Appendix P of the Planning Report), the Project is not proposed to have aviation safety lighting installed on the wind turbines.

9.3.5 Hazardous Materials

As described in **Section 9.2.8** for construction activities, operational activities have the potential to cause harm to fauna species through accidental releases of hazardous materials. The volume of such substances being used and stored on site during operation will be significantly less than during construction, with a corresponding reduction in risk.

9.3.6 Pests and Weeds

As described in **Section 9.2.9** for construction activities, operational activities have the potential to increase the abundance of pest flora and fauna in the Project area and facilitate dispersal of species to previously unimpacted areas.

9.3.7 Bushfire Risk

During operational activities, there is potential for heightened fire risk due to the increased presence of maintenance and monitoring vehicles and personnel in the Project area. This is through the use of machinery that may generate sparks, use of flammable liquids and idling vehicles being present in areas of ground vegetation.

9.4 **Potential Decommissioning Impacts**

At the end of the Project's operational life, infrastructure will be decommissioned and the site rehabilitated to facilitate continuation of the current land use (i.e. agriculture). Decommissioning involves the removal of all above-ground infrastructure such as turbines, overhead transmission lines, switch stations, etc. Removal of buried infrastructure is not normally undertaken as this typically causes additional disturbance and environmental impacts. Once above-ground infrastructure is removed, the land is rehabilitated in line with specific approval conditions and landholder agreements.

Impacts during decommissioning are likely to relate primarily to vehicle movements around the Project area, potential for spread of weeds and elevated risk of bushfire as described in the sections above. No additional vegetation clearing would be anticipated during decommissioning activities; however, this would be subject to a separate assessment if required.



10.0 Impact Avoidance, Minimisation and Mitigation

10.1 Design Phase

Ecological surveys of the Project area commenced at an early stage during Project design, and as such the results of the surveys have been able to significantly inform the Project layout. Central to this process was ensuring that areas of higher ecological significance were avoided to the greatest practical extent, taking into consideration the challenging terrain and wind resource requirements.

Initial ecological surveys were designed to collect information about the characteristics of the broader Project area, such that the opportunities and constraints could inform the subsequent Project design activities.

The evolution of the Project design demonstrates informed and ecologically sensitive development, where observations in the field have resulted in tangible and significant changes to the Project. From Project inception, CWF has been committed to achieving ecologically sustainable development through this Project, and this has formed a fundamental driver for the wider Project team.

Avoidance of MSES and associated habitat has been demonstrated during the design process as described in the subsections below.

10.1.1 Avoidance of Wet Tropics WHA

The Wet Tropics WHA is located to the east and northeast of the Wooroora property, and also cuts across a portion of the north-eastern extent of the Project area (within Wooroora). It was considered critical by the Project team to ensure that the Project footprint did not extend into the Wet Tropics WHA. The proposed wind turbine layout has been designed to achieve a separation distance of at least 600 m to the Wet Tropics WHA at its closest point (in the east of Wooroora). This not only avoids direct impacts to the Wet Tropics WHA, but also decreases the likelihood of any indirect impacts to the Wet Tropics WHA being associated with the Project.

10.1.2 Avoidance of Rainforest Habitats

Since the inception of the Project, the rainforest habitats associated with the Wet Tropics WHA and various MSES were identified as some of the higher-value ecological aspects of the Project area. Consequently, the ecological surveys on site were partly designed to ground-truth the extent of these rainforest habitats such that they could be avoided by the Project footprint.

The Project area supports large areas of remnant vegetation dominated by open eucalypt woodland with small pockets of scattered rainforest communities close to the eastern boundary. The Project has been designed to avoid any clearing of rainforest vegetation and therefore threatened species specifically associated with these rainforest communities are not expected to be impacted.

10.1.3 Avoidance of Arthur's Seat

Desktop and site-based cultural heritage investigations of the Project area identified that the Arthur's Seat topographical feature was of high cultural significance for the Traditional Owners. This, coupled with the known presence of *T. nitchaga* and *H. porteri* at this location, contributed to Arthur's Seat being avoided by the Project footprint by at least 1,000 m.



10.1.4 Avoidance of Habitat for MSES Plants Associated with Rocky Pavement

Some of the MSES flora species that are known to exist within the Project area (*P. clotteniana, H. porteri, T. nitchaga* and *Coleus amoenus*) share a common trait – their habitat requirements are highly niche. All recorded observations of these species during the field surveys were in association with the rocky pavement shrub complex habitat, corresponding with RE 7.12.65k. This vegetation community occurs on the granite and rhyolite outcrops favoured by all three listed plant species.

Through analysis of high-resolution aerial photography, these rocky pavement areas were identified and mapped throughout the Project area. These rocky pavement areas were then targeted for flora surveys in October 2020 and March 2021, and those found to contain MSES species were avoided as far as possible by the Project footprint through subsequent refinement by the Project team. This has resulted in the avoidance of most impacts to these MSES flora species through appropriate and considerate Project design, with only one known population of *Coleus amoenus* (listed as Vulnerable under the NC Act) likely to be impacted.

10.1.5 Avoidance of Potential Red Goshawk Nest

The location of the potential red goshawk nest within the Glen Gordon property in riparian vegetation associated with Blunder Creek was identified as a high constraint for the purposes of Project design. The Project footprint has been designed to achieve a separation distance of more than 1,000 m between this nest and any proposed wind turbine. The Project footprint has also avoided this location through the appropriate placement of access tracks in areas removed from this potential red goshawk nest.

10.1.6 Reduction in Number of Turbines

In mid-2020, CWF had designed approximately 200 wind turbines across the Project area for further investigation and refinement once specific constraints were identified. The Project has evolved to the point where less than half of the original number of proposed wind turbines now remain under consideration. Central to the process was the preparation of ecological constraints mapping that sought to bring together the collective implications associated with ecological findings throughout the Project area to inform the Project team. This ecological constraint mapping (and associated advice) was then overlayed with other considerations (e.g. wind mapping, topography, landholder considerations) to determine the current Project footprint.

10.1.7 Further Minimisation of Project Footprint for Relevant Purpose Determination

CWF has worked with DoR over the past six months to further demonstrate that the Project has sought to minimise impacts to regulated vegetation to the greatest practical extent. To this end, CWF undertook a thorough review of the civil and electrical design for the Project, including challenging the width of the proposed Project footprint and ensuring that the electrical design requirements were realistic. This process led to a full re-appraisal of the civil and electrical design clearing requirements, with a view to ensure that colocation occurred wherever practicable subject to known constraints (topographical, landholder, ecological, etc.).

Specific actions undertaken by CWF in this process included:

- Civil design CWF capitalised on opportunities to reduce proposed clearing widths for access tracks in the flatter parts of the Project area. The width of the Project footprint in some of these locations is now less than 25 m.
- Removal of proposed WTG20 and associated hardstand from the design.



- Changes to the location of some proposed access tracks on Lot 31 SP288862 to respond to landholder and ecological factors (e.g. avoiding mapped wetlands).
- Electrical design sought to achieve underground cabling for collector systems where feasible (collocated with access tracks). It is only in the more rugged terrain where cabling presents major issues (through much larger batter requirements when separation distances and offsets from the access track are factored in). In such locations, the collector systems are proposed as an overhead (approx. 33kV) alignment.
- Further design of the arrangement of the northern substation, BESS, construction compound, O&M facility resulted in changes to the overall footprints to adequately accommodate cables and OHTL infrastructure.
- Colocation of the OHTL corridor and access tracks where crossing major watercourses (e.g. between WTGs 74 and 75) on Lot 1 CWL3298, in areas of known greater glider habitat.
- Reduction in the area of the proposed southern substation, to reduce impacts and clearing requirements on Lot 1 CWL3298

10.1.8 Additional Mitigation Measures

Further to the measures described above, the following general measures have been implemented throughout the design phase to avoid and minimise environmental impacts to the greatest practical extent:

- Locating the substation, office, construction compound and temporary laydown areas on existing cleared land as far as practicable, and away from watercourses;
- Co-locating underground electric cabling with Project access roads and minimising the width of Project access roads as far as practicable; and
- Minimising the number and width of watercourse crossings this has been a considerable driver to minimise potential impacts on greater glider, masked owl and red goshawk.

10.2 Construction Phase

10.2.1 Vegetation Clearing

The following measures will be employed during the construction phase of the Project to avoid and minimise impacts associated with vegetation clearing:

- Vegetation clearing will be limited to those areas required for earthworks and construction of the Project. Those areas which are not required for the ongoing operation of the Project will be rehabilitated to pre-disturbance land use as soon as practicable following construction.
- The approved disturbance area will be clearly demarcated prior to clearing to avoid unnecessary clearing of vegetation and to ensure personnel and vehicles stay within the approved footprint.
- Sequential clearing will occur to minimise impacts on native fauna, particularly arboreal fauna which may be using tree hollows.
- Measures to ensure clearing limits are adhered to will be documented in the CEMP and addressed in site inductions.
- Access will be limited to approved access routes and tracks.



- Turbine locations will be microsited within the Project corridor, where conditions and wind resource allow, to take advantage of areas of lower ecological significance.
- Removal of protected plants will be avoided as much as practicable by locating infrastructure away from populations and individuals during micrositing activities.
- Access roads will be aligned along existing tracks wherever practicable to minimise vegetation removal and loss of hollow-bearing trees, as well as to avoid additional disturbance through GBR wetland protection areas.
- Develop a Threatened Species Management Plan and Species Management Program (TSMP) to identify specific measures to be implemented that will mitigate impacts to threatened fauna species and breeding places during clearing, as well as operation of the Project.
- Pre-clearance surveys will be undertaken by a suitably qualified ecologist to:
 - identify GPS locations of any protected plants within the proposed disturbance areas noting details for each individual, including a health assessment;
 - identify and mark all hollow-bearing trees;
 - identify and mark any other active breeding places such as nests, burrows etc.;
 - identify suitable release sites; and
 - identify presence of weed species.
- A suitably qualified fauna spotter-catcher will be present during all clearing activities, working under an approved TSMP. The fauna spotter-catcher will be responsible to check an area immediately prior to any clearing for presence of any native fauna including searches of all potential habitats such as terrestrial microhabitats and hollows, etc. Any captured species (excluding koalas) will be relocated to an agreed release site. The fauna spotter-catcher will then advise the ground staff as to measures that need to be taken to avoid impacts on breeding places and fauna species. Specific threatened species pre-clearance activities within the Project footprint will include:
 - canopy searches in suitable foraging tree species for koala; and
 - inspections of suitably sized hollows for the presence of greater glider.
- Sequential clearing will occur. Key steps as part of sequential clearing are summarised below:
 - the first phase will consist of removing understorey vegetation and smaller juvenile trees only. Juvenile trees are under 4 m in height or trunk circumference of less than 31.5 cm at 1.3 m above the ground. No hollow-bearing trees will be cleared in Phase 1;
 - after 48hrs the second phase can commence which is to clear the remaining larger trees, including those with hollows. Trees with small hollows will be cleared using the "slow drop" technique. The tree will be brought down slowly by the machine and mulch put underneath to soften the fall. They will then be inspected by the fauna spotter-catcher to ensure no wildlife remain in the hollow. Where practicable, fauna will be caught, and released into suitable recipient sites once clearing has stopped.
 - if any native fauna are injured they will be taken to a local vet/wildlife carer for treatment.
 - it is important the clearing is done in such a way that arboreal fauna are given the opportunity to disperse from the area once clearing has commenced under their own volition. To encourage this to occur, no habitat trees will be isolated (either singly or in groups) and instead dispersal corridors will be left in place that link



vegetation with clearing areas to adjacent areas of retained habitat. Such corridors could consist of a single row of trees no more than 30-40 m apart that will act as 'stepping stones'.

- any confirmed koalas will be identified by putting flagging tape and/or marking spray on the tree they are in, and any nearby trees with overlapping crowns or those trees that may impact the koala's tree during felling will not be cleared until the koala has moved from the area under its own volition. In most situations the koala will move from the area overnight.
- fell trees away from retained areas of vegetation where practicable. Where trees unavoidably fall into retained areas, leave in-situ to mimic natural tree fall and provide habitat for ground-dwelling fauna.
- micro-habitats such as fallen logs and rocks will be moved into adjacent habitat.

10.2.2 Habitat Fragmentation

The following measures will be implemented to mitigate and manage impacts of fragmentation as much as practicable during the construction phase:

- Fencing will be limited to use around the substation, and operation and maintenance facilities. Fencing design will give consideration to the movement of fauna through or over it, for example by not using barbed wire on the top strand of fences.
- Installation of glider rope crossings and glider poles in areas of preferred glider habitat with a clearance width of 50 m or greater to maintain habitat connectivity.
- Nest box installation to be undertaken where active dens are identified within the Project footprint to compensate for loss of denning resources.
- Minimise clearing widths and where feasible install measures to assist fauna safely move across these areas to adjacent habitats. This may be reducing vehicle speeds to minimise chance of vehicle strike, establish rope crossings at key fauna corridors (such as watercourse crossings).
- Install fauna exclusion fencing around some infrastructure such as the substation if there is a high risk of fauna species being impacted.
- Undertake staged clearing of native vegetation, and retain habitat trees where practicable, to minimise impacts to native fauna species.
- Implement weed and pest control across the Project area to reduce degradation of habitats and edge effects as a result of the Project.

10.2.3 Fauna Injury or Mortality

The following measures will be implemented to prevent species mortality during the construction phase:

- All vehicles associated with construction activities will travel at slow speeds to minimise the chance of any fauna strikes occurring. Speed limit signage will be placed at the entrance to the site and other key access tracks.
- A suitably qualified fauna spotter/catcher will be present during all clearing activities associated with the vegetation clearance, working under a Species Management Program. The spotter/catcher will be responsible to check an area prior to any slashing, minor vegetation removal, or ground disturbance occurring for; animal



breeding places (such as hollow bearing trees, nests, dens and fallen logs) and presence of any fauna species (such as checking for reptiles under fallen logs, and koalas within eucalypt trees).

- All contractors will be educated on the presence of native fauna including threatened species and need to travel slowly and look out for fauna when driving. This training will form part of mandatory inductions.
- Vehicle traffic will be confined to designated roads and access tracks.
- All fauna encountered (e.g. vehicle strike or during clearing activities) will be recorded in a central register by the Project Environment Manager. Any injured fauna will be reported as required in the Species Management Program that will be in place for the Project.
- Appropriate procedures for managing injured wildlife should be developed and included in the CEMP.
- During trenching activities, open trenches will be monitored daily. If species are trapped in the trench they will be released by a fauna spotter-catcher. The amount of open trench will be minimised and trenches will preferably be backfilled prior to nightfall.
- Escape ramps or planks and/or shelter (e.g. sawdust filled bags) for trapped fauna will be installed in open trenches.

10.2.4 Dust Emissions

The following measures will be implemented to mitigate and manage impacts from dust as much as practicable during the construction phase:

- Dust suppression techniques such as the use of water carts or application of soil binders will be implemented as required during construction.
- Dust generating activities will be minimised during dry, windy conditions.
- Low speed limits will be implemented on site to minimise dust generation.
- Areas of exposed soils will be stabilised / rehabilitated as soon as practicable, in line with best practice requirements.
- Machinery and vehicle tyres will be regularly cleaned to reduce wheel entrained dust emissions and/or the use of vibration grids will be considered.
- Access roads will be designed to have a less erodible surface.
- Water spraying of nearby sensitive vegetation should be considered if visible dust sedimentation is observed.

10.2.5 Noise and Vibration

The following measures will be implemented to mitigate and manage impacts from noise and vibration as much as practicable during the construction phase:

- Standard construction work hours for noise-generating activities will generally be between 6.30am and 6.30pm, reducing the risk of disturbance to nocturnal and crepuscular fauna.
- Equipment is to be fitted with noise reduction devices where practicable and switched off when not in use.
- Blasting will minimised as far as practicable.



• Prior to construction, likely locations for blasting will be reviewed to determine the risk of damage or disturbance to caves that have the potential to support bat roosts and additional controls will be developed as necessary.

10.2.6 Light Emissions

The following measures will be implemented to mitigate and manage impacts from lighting as much as practicable during the construction phase:

- Standard construction work hours (generally 6.30am to 6.30pm) predominantly coincide with daylight hours, minimising the need for lighting to facilitate night works. There may be some night work associated with the Project, subject to construction schedule and climatic conditions.
- Site lighting will be kept to the minimum required for safety.
- Where necessary, construction lighting will be directed to the required areas and designed to minimise light spill to surrounding areas through the use of shields or similar.

10.2.7 Erosion and Sedimentation

The following measures will be implemented to mitigate and manage impacts of erosion and sediment as much as practicable during the construction phase:

- Erosion in active construction areas cannot be eliminated but can be controlled. As part of the construction
 planning a certified Erosion and Sediment Control Plan (ESCP) will be prepared prior to construction and
 implemented during on-site activities. Sediment and erosion control measures to prevent soil loss will be
 developed consistent with the International Erosion Control Association (IECA) Best Practice Erosion and Sediment
 Control (BPESC) document. The ESCP will form part of the overall CEMP. Particular focus will be given to managing
 runoff in the vicinity of watercourses.
- As a minimum standard, access tracks will be constructed in accordance with EHP publication: "Erosion control on property roads and tracks—managing runoff".
- Creek crossing locations will seek to take advantage of existing gaps in the riparian corridors as far as practicable. Work in creek crossings will be carried out in periods of no flow where practicable.
- Design on site infrastructure to ensure water flows are not impounded or concentrated (e.g. culverts, diversion ditches, etc.).
- No equipment or materials will be stored across flow paths.
- The extent of the area required to carry out the permitted activity must be limited to the minimum area necessary to reasonably carry out the works.
- Waterway crossings will be designed in accordance with accepted development requirements for waterway barrier works wherever practicable to ensure fish passage is not impeded.
- Watercourse crossings must be designed to maintain flow and minimise the increase in flow volume or velocity.
- Constructed access tracks (e.g. culverts or splash-through crossings) must be provided with a scour apron and cut off wall on the downstream side sufficient to prevent bed erosion.



10.2.8 Hazardous Materials

The following measures will be implemented to mitigate and manage impacts from accidental releases of hazardous substances:

- Hazardous chemicals will be stored within dedicated, bunded areas or within self-bunded containers away from watercourses and other sensitive receptors.
- Refuelling and the maintenance of machinery and equipment will be undertaken over hardstand areas with containment measures in place.
- Any accidental releases of hazardous materials will be reported within internal incident reporting systems so that these events can be reviewed, and corrective action taken as appropriate.
- Spill kits will be maintained onsite and located in proximity to chemical storage and handling areas; spill kit contents will be commensurate to the type and quantity of chemicals stored on-site.
- All recovered materials including affected soils, used absorbent pads and gravel, recovered liquids etc. are to be disposed of offsite at an appropriately licenced landfill facility.

10.2.9 Pests and Weeds

The following measures will be implemented to mitigate and manage impacts from weeds and pest animals as much as practicable during the construction phase:

- A Weed and Pest Management Plan will be developed for the Project with specific advice for key identified species. The plan will include management of weed spread, management of pest infestations, and monitoring effectiveness of control measures.
- Weed hygiene protocols will be implemented such as a dedicated vehicle and machinery cleaning bay at the main entrance to the site. This will not be placed near a watercourse.
- Restricted invasive plants present within the construction footprint will be treated prior to the commencement of works at that location.
- Onsite waste disposal (especially food waste) to discourage presence of pest fauna. Waste will be stored in covered bins/skips to prevent fauna access.
- Weeds will be identified during pre-clearing surveys, in particular, any large infestations within proposed disturbance areas. Clean and dirty zones should be demarcated on site to facilitate weed management.
- All vehicles, equipment and materials brought into site (such as gravel) will be certified as weed and disease free.
- Design weed washdown facilities at key access points and ensure that runoff is contained on site.
- Any herbicides used on site must be dispensed by an appropriately trained and qualified weed sprayer.

10.2.10 Bushfire Risk

The following measures will be implemented to mitigate and manage impacts from bushfire risks as much as practicable during the construction phase:



- As part of the construction planning a Bushfire Management Plan will be prepared by a suitably qualified person prior to construction and implemented during on-site activities. During the bushfire season, the fire danger status will be monitored daily.
- For "hot-work" activities, a risk assessment will be completed considering forecast weather, fire hazard ratings and site conditions.
- Vehicles may not idle or be parked in areas of long grass.
- Access tracks and fencelines will be used as firebreaks within the Project area and regularly maintained during construction and operation of the Project.
- Smoking will not be permitted on site.
- Fuel loads will be monitored and managed through activities such as controlled grazing, cool mosaic burns and weed management.

10.3 Operational Phase

10.3.1 Vehicle Strike

The following measures will be implemented to prevent species mortality through collision with vehicles during the operational phase:

- All vehicles associated with operational and maintenance activities will travel at slow speeds to minimise the chance of any fauna strikes occurring. Speed limit signage will be placed at the entrance to the site and other key access tracks.
- All contractors will be educated on the presence of native fauna including threatened species and need to travel slowly and look out for fauna when driving. This training will form part of mandatory inductions.
- Vehicle traffic will be confined to designated roads and access tracks.
- Threatened fauna encountered on site will be recorded in a central register by the Project Environment Manager. Any injured fauna will be reported as required in the Species Management Program that will be in place for the Project.
- Appropriate procedures for managing injured wildlife should be developed and included in the Project EMP.

10.3.2 Collision Risk

The following measures will be implemented to mitigate and manage impacts from bird and bat collision risks as much as practicable during the operational phase:

- As part of the operational planning a Bird and Bat Management Plan (BBMP) will be prepared by a suitably qualified person prior to the operation of the wind turbines. The BBMP will outline a monitoring program, identify if any threatened species are significantly impacted and define a strategy that manages and mitigates any significant impacts on these species. A Preliminary BBMP is included in **Appendix F**.
- The availability of perches in the vicinity of turbines will be reduced.



- Lighting of turbines will be limited it is the advice of a specialist aviation consultant that wind turbines associated with the Project do not require aviation safety lighting (refer Appendix P of the Planning Report).
- Use of onsite deterrents such as ultrasonic devices will be investigated.
- The presence of standing water in the vicinity of turbines will be minimised.
- Operational monitoring for the site utilisation of birds and bats will be undertaken and compared to baseline data. Triggers for adaptive management will be included. Annual bird and bat utilisation surveys will be undertaken in line with Project approval conditions as part of monitoring to assess whether the Project area continues to be used by species and to assess any changes in abundance that may influence BBMP risk ratings.
- A regular carrion removal program will be implemented.

10.3.3 Noise and Light Emissions

The following measures will be implemented to mitigate and manage impacts from noise and lighting as much as practicable during the operational phase:

- Night lighting will mainly be limited to that required for safety and security. Project lighting will be minimised (i.e. low luminance) as far as possible.
- Directional lighting should be away from environmentally sensitive areas.

10.3.4 Pests and Weeds

The following measures will be implemented to mitigate and manage impacts from weeds and pest animals as much as practicable during the operational phase:

- Weed mapping within the construction footprint will be undertaken prior to commencement of works.
- Restricted invasive plants present within the construction footprint will be treated prior to the commencement of works at that location.
- All vehicles and equipment accessing site must arrive in the first instance with a current weed hygiene inspection certificate.
- Vehicles and equipment departing weed infested areas must be washed down and confirmed as clean down prior to entering weed free areas.
- A Weed and Pest Management Plan will be developed for the Project with specific advice for key identified species. This will include management of weed spread, management of pest infestations, and monitoring effectiveness of control measures.
- A pest animal monitoring program will be developed for the Project.
- Any herbicides used on site must be dispensed by an appropriately trained and qualified weed sprayer.

10.3.5 Bushfire Risk

The following measures will be implemented to mitigate and manage impacts from bushfire risks as much as practicable during the operational phase:



- A Bushfire Management Plan will be implemented during the operational phase of the Project. During the bushfire season, the fire danger status will be monitored daily.
- For "hot-work" activities, a risk assessment will be completed considering forecast weather, fire hazard ratings and site conditions.
- Vehicles may not idle or be parked in areas of long grass.
- Access tracks and fencelines will be used as firebreaks within the Project area and regularly maintained during construction and operation of the Project.
- Fuel loads will be monitored and managed through activities such as controlled grazing, cool mosaic burns and weed management.
- Smoking will not be permitted on site.

10.4 Rehabilitation

The following measures will be implemented to facilitate rehabilitation of the Project area:

- Areas required for construction which are no longer required for operation will be rehabilitated to pre-disturbance land use. This may include soil stabilisation, direct seeding, managing natural regeneration and weed management.
- It is anticipated that relatively large areas required to be cleared for construction access tracks can be rehabilitated back down to a considerably narrower width for operational purposes. At any given location, the extent to which this might occur will depend on the nature of the earthworks and the anticipated operational activities.
- Hollow-bearing stags, woody debris, logs and rocks will be retained for use in rehabilitation.
- Where seeding and/or revegetation is required, plant species will be selected that are found in similar adjacent habitat on site. This may include use of an inert initial colonisation species to assist in groundcover and stabilisation.

It is anticipated that the proponent will need to further explore these post-construction rehabilitation opportunities as part of any forthcoming development permit conditions, as well as to respond to the requirements of the Public Environment Report Guidelines under the EPBC Act.

10.5 Decommissioning

The following measures will be implemented to facilitate decommissioning of the Project area:

- Implement site planning and management requirements in accordance with a developed decommissioning and rehabilitation plan.
- Sequential rehabilitation will be practiced as soon as practicable following decommissioning activities.



11.0 Significant Impact Assessment

Significant residual impact assessments were carried out for MSES using the SRI Guideline (DSDIP 2014) applying State Code 16: Native Vegetation Clearing. This includes the following MSES:

- Endangered or Of Concern REs;
- Remnant vegetation within the defined distance of a watercourse;
- REs that intersect with a wetland;
- Connectivity; and
- Essential habitat.

Detailed assessments for each MSES value against the relevant criteria are provided in the following sections.

11.1 Assessment of Impacts on Endangered or Of Concern REs

The MSES significant residual assessments for Endangered and Of Concern REs are presented in the following tables.

Table 11-1 SRI Assessment for Endangered RE 7.8.19

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing of more than 5 ha of Endangered or Of Concern RE vegetation	Up to 4.03 ha of remnant and regrowth vegetation will be cleared.	Unlikely
Clearing that results in an overall area (not confined to property boundaries) of Endangered or Of Concern RE vegetation of less than 5 ha	Overall area of remnant and regrowth RE 7.8.19 in study area is a 14.4 ha. Clearing will not reduce this area of vegetation to less than 5 ha.	Unlikely
Clearing that results in the physical separation of Endangered and Of Concern RE communities within and on adjoining sites	The impacts to RE 7.8.19 are for the widening of an existing road, which currently passes through the mapped REs. No new physical separation of the patches shall occur.	Unlikely
Conclusion	The Project is not expected to result in a signifi 7.8.19.	cant residual impact to RE



Table 11-2 SRI Assessment for Of Concern RE 7.3.26

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing of more than 5 ha of Endangered or Of Concern RE vegetation	Up to 3.76 ha of remnant and regrowth vegetation will be cleared.	Unlikely
Clearing that results in an overall area (not confined to property boundaries) of Endangered or Of Concern RE vegetation of less than 5 ha	Overall area of remnant and regrowth RE 7.3.26 in study area is 390 ha. Clearing will not reduce this area of vegetation to less than 5 ha.	Unlikely
Clearing that results in the physical separation of Endangered and Of Concern RE communities within and on adjoining sites	Clearing will result in a physical separation of up to 80 m at each of the watercourse crossings	Likely
Conclusion	The Project is likely to result in a significant residual in as it will result in a physical separation of up to 80 m a watercourse crossings.	•

Table 11-3 SRI Assessment for Of Concern RE 7.3.43

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing of more than 5 ha of Endangered or Of Concern RE vegetation	Up to 6.63 ha of remnant and regrowth vegetation will be cleared.	Likely
Clearing that results in an overall area (not confined to property boundaries) of Endangered or Of Concern RE vegetation of less than 5 ha	Overall area of remnant and regrowth RE 7.3.43 in study area is 290.5 ha. Clearing will not reduce this area of vegetation to less than 5 ha.	Unlikely
Clearing that results in the physical separation of Endangered and Of Concern RE communities within and on adjoining sites	Clearing will result in a physical separation of up to 90 m	Likely
Conclusion	The Project is likely to result in a significant residual impact to RE 7.3.43 as it will result in the loss of up to 6.63 ha of remnant and regrowth vegetation and a physical separation of up to 90 m.	



Table 11-4 SRI Assessment for Of Concern RE 7.8.7

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing of more than 5 ha of Endangered or Of Concern RE vegetation	Up to 0.51 ha of remnant and regrowth vegetation will be cleared.	Unlikely
Clearing that results in an overall area (not confined to property boundaries) of Endangered or Of Concern RE vegetation of less than 5 ha	Overall area of remnant and regrowth RE 7.8.7 in study area is 88.2 ha. Clearing will not reduce this area of vegetation to less than 5 ha.	Unlikely
Clearing that results in the physical separation of Endangered and Of Concern RE communities within and on adjoining sites	No new physical separation of the patches shall occur.	Unlikely
Conclusion	The Project is not expected to result in a significan 7.8.7	t residual impact to RE

Table 11-5 SRI Assessment for Of Concern RE 7.8.10

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing of more than 5 ha of Endangered or Of Concern RE vegetation	Up to 0.51 ha of remnant and regrowth vegetation will be cleared.	Unlikely
Clearing that results in an overall area (not confined to property boundaries) of Endangered or Of Concern RE vegetation of less than 5 ha	Overall area of remnant and regrowth RE 7.8.10 in study area is 20.35 ha. Clearing will not reduce this area of vegetation to less than 5 ha.	Unlikely
Clearing that results in the physical separation of Endangered and Of Concern RE communities within and on adjoining sites	No new physical separation of the patches shall occur.	Unlikely
Conclusion	The Project is not expected to result in a significan 7.8.10.	t residual impact to RE



Table 11-6 SRI Assessment for Of Concern 7.8.18

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing of more than 5 ha of Endangered or Of Concern RE vegetation	Up to 0.09 ha of remnant and regrowth vegetation will be cleared.	Unlikely
Clearing that results in an overall area (not confined to property boundaries) of Endangered or Of Concern RE vegetation of less than 5 ha	Overall area of remnant and regrowth RE 7.8.10 in study area is 0.09 ha. Clearing will not reduce this area of vegetation to less than 5 ha.	Unlikely
Clearing that results in the physical separation of Endangered and Of Concern RE communities within and on adjoining sites	No new physical separation of the patches shall occur.	Unlikely
Conclusion	The Project is not expected to result in a significant residual impact to RE 7.8.18.	

Table 11-7 SRI Assessment for Of Concern RE 7.12.52

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing of more than 5 ha of Endangered or Of Concern RE vegetation	Up to 170.16 ha of remnant and regrowth vegetation will be cleared.	Likely
Clearing that results in an overall area (not confined to property boundaries) of Endangered or Of Concern RE vegetation of less than 5 ha	Overall area of remnant and regrowth RE 7.12.52 in study area is 3,316.96 ha. Clearing will not reduce this area of vegetation to less than 5 ha.	Unlikely
Clearing that results in the physical separation of Endangered and Of Concern RE communities within and on adjoining sites	Clearing will result in a physical separation of up to 140 m	Likely
Conclusion	The Project is likely to result in a significant residual impact to RE 7.12.52 as it will result in the loss of up to 170.16 ha of remnant and regrowth vegetation and a physical separation of up to 140 m.	



Table 11-8 SRI Assessment for Of Concern RE 7.12.57

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing of more than 5 ha of Endangered or Of Concern RE vegetation	Up to 35.01 ha of remnant and regrowth vegetation will be cleared.	Likely
Clearing that results in an overall area (not confined to property boundaries) of Endangered or Of Concern RE vegetation of less than 5 ha	Overall area of remnant and regrowth RE 7.12.57 in study area is 537.32 ha. Clearing will not reduce this area of vegetation to less than 5 ha.	Unlikely
Clearing that results in the physical separation of Endangered and Of Concern RE communities within and on adjoining sites	Clearing will result in a physical separation of up to 65 m	Likely
Conclusion	The Project is likely to result in a significant residual impact to RE 7.12.57 as it will result in the loss of up to 35.01 ha of remnant and regrowth vegetation and a physical separation of up to 65 m.	

Table 11-9 SRI Assessment for Of Concern 7.12.66

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing of more than 5 ha of Endangered or Of Concern RE vegetation	Up to 23.40 ha of remnant and regrowth vegetation will be cleared.	Likely
Clearing that results in an overall area (not confined to property boundaries) of Endangered or Of Concern RE vegetation of less than 5 ha	Overall area of remnant and regrowth RE 7.12.66 in study area is 236.39 ha. Clearing will not reduce this area of vegetation to less than 5 ha.	Unlikely
Clearing that results in the physical separation of Endangered and Of Concern RE communities within and on adjoining sites	Clearing will result in a physical separation of up to 80 m	Likely
Conclusion	The Project is likely to result in a significant residual impact to RE 7.12.66 as it will result in the loss of up to 23.40 ha of remnant and regrowth vegetation and a physical separation of up to 80 m.	



11.2 Assessment of Impacts on Remnant Vegetation within a Defined Distance of a Watercourse

Table 11-10SRI Assessment for Remnant Vegetation with a Defined Distance of a Watercourse

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Permanent removal of vegetation within the defined distance of a stream order 2 or higher where no rehabilitation is proposed	Up to 9.00 ha of remnant vegetation within a defined distance of a watercourse is proposed to be removed.	Likely
Building of an online detention basin greater than 1 ha in size or other similar works that result in the clearing of vegetation which fragments up and downstream remnant areas on any stream order	The works do not comprise construction of online detention basins or similar that would result in fragmentation of riparian vegetation.	Unlikely
Permanent clearing of more than 0.5 ha of an Endangered or Of Concern RE, within the defined distance of a watercourse	Up to 4.26 ha of remnant vegetation comprising Of Concern RE, within a defined distance of a watercourse is proposed to be removed.	Likely
Conclusion	The Project is expected to result in a significant residual impact to remnant vegetation within a defined distance of a watercourse as up to 9.00 ha of remnant watercourse vegetation is required to be removed, of which 4.26 ha comprises Of Concern RE.	

11.3 Assessment of Impacts on Remnant Vegetation that Intersects with a Wetland

There is no clearing of remnant wetland vegetation proposed within either the Wet Tropics (coastal) bioregion or the Einasleigh (non-coastal) bioregion.

11.4 Assessment of Impacts on Connectivity

Table 11-11 SRI Assessment for Connectivity in the Wet Tropics Bioregion (Coastal)

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing does not occur in areas of vegetation that are less than 10 ha	Clearing occurs in primarily contiguous areas of vegetation that total 17,750.1 ha in size.	Unlikely
Clearing does not reduce the extent of vegetation to less than 10 ha	The proposed removal of 726.64 ha within the bioregion will leave 17,023.5 ha	Unlikely



SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing does not occur in areas of vegetation less than 100 m wide	No clearing will occur in vegetation less than 100 m wide	Unlikely
Clearing does not reduce the width of vegetation to less than 100 m	No clearing will reduce the width of vegetation to less than 100 m wide	Unlikely
Clearing does not occur where the extent of vegetation on the subject lot(s) is reduced to, or less than, 30 % of the total area of the lot(s)	Wooroora Property is 20,300 ha in size with 17,529.1 ha of vegetation within the bioregion. The proposed removal of 695.1 ha in the lot will leave 16,834 ha which constitutes 86 % of the total vegetation of the lot within the bioregion remaining.	Unlikely
	Glen Gordon Property is 11,285.3 ha in size with 85.7 ha of vegetation in the bioregion. The proposed removal of 21.4 ha in the lot will leave 64.3 ha which constitutes of the 75 % of total vegetation of the lot within the bioregion remaining.	
Conclusion	The Project is not likely to have a significant residuation connectivity in the Wet Tropics bioregion.	al impact on

Table 11-12 SRI Assessment for Connectivity in the Einasleigh Uplands Bioregion (Non-Coastal)

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing does not occur in areas of vegetation that are less than 50 ha	Clearing occurs in areas of vegetation that are 12,957.9 ha	Unlikely
Clearing does not reduce the extent of vegetation to less than 50 ha	The proposed removal of 353.7 ha will leave 12,604.2 ha	Unlikely
Clearing does not occur in areas of vegetation less than 200 m wide	1.22 ha of clearing will occur in vegetation less than 200m wide	Likely
Clearing does not reduce the width of vegetation to less than 200 m	6.22 ha of clearing will reduce the width of vegetation to less than 200 m wide	Likely
Clearing does not occur where the extent of vegetation on the subject lot(s) is reduced to, or less than, 30 % of the total area of the lot(s)	Glen Gordon Property is 11,285.3 ha in size with 10,601.7 ha of vegetation in the bioregion. The proposed removal of 322.2 ha in the lot will leave 10,963.1 ha which constitutes of the 97 % of total vegetation of the lot within the bioregion remaining.	Unlikely



SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
	Wooroora Property is 20,300 ha in size with 2,295.9 ha of vegetation within the bioregion. The proposed removal of 17.7 ha in the lot will leave 2,278.2 ha which constitutes 99 % of the total vegetation of the lot within the bioregion remaining.	
Conclusion	The Project is likely to have a significant residual impact on connectivity as it will occur in vegetation less than 200 m wide and reduce the width of vegetation to less than 200 m wide. Despite not meeting the Acceptable Outcomes within State Code 16 for PO16 (and represented by the SRI criteria assessed above), the Project complies with the intent of PO16 in that it retains sufficient vegetation to maintain ecological processes throughout and beyond the Project area. Therefore, it is not considered that offsets are required for impacts to connectivity associated with the Project (refer to the SDAP Code Responses in Appendix R to the Planning Report).	

11.5 Assessment of Impacts on Essential Habitat

Table 11-13 SRI Assessment for Essential Habitat

SRI Criteria	Project Assessment	Significant Impact Likely / Unlikely?
Clearing of essential habitat exceeding the thresholds in Table 1, SDAP Module 8, i.e.:	Up to 13.81 ha of mid-dense essential habitat will be cleared, with a maximum width of 140 m.	Likely
Dense and mid-dense REs - 10 m width and 0.5 ha area Sparse and very sparse REs - 20 m	Up to 114.38 ha of sparse essential habitat will be cleared, with a maximum width of 180 m.	
width and 2 ha area Grassland REs - 25 m width and 5 ha area Whereby the structure category of the RE is as per the REDD	Up to 3.56 ha of uncategorised essential habitat remapped as non-remnant or rocky pavements will be cleared, with a maximum width of 130 m.	
Clearing of essential habitat resulting in a greater than 10 % permanent reduction in the extent of essential habitat mapped on site	The total extent of essential habitat mapped on site is 4,355.8 ha. The proposed clearing of 131.75 ha represents a permanent reduction of up to 3.0% on the site.	Unlikely
Conclusion	The Project is likely to have a significant residual impact on essential habitat as clearing will exceed the thresholds in Table 1, SDAP Module 8 for dense / mid-dense and sparse / very sparse REs.	



11.6 Environmental Offsets

It has been identified that the Project may result in a significant residual impact to Of Concern REs, watercourse vegetation and essential habitat.

Subject to approvals and detailed design, environmental offsets will be provided by CWF for this residual impact, in accordance with the Queensland Environmental Offsets Policy.



12.0 Conclusion

This report has been prepared to identify and assess potential impacts of the Project on the ecological values of the Project area. Based on desktop assessments and extensive seasonal field ecology surveys, the following MSES are considered known to occur within the Project area:

- Endangered and Of Concern REs;
- Remnant vegetation within a defined distance of a watercourse;
- Flora species listed as Endangered, Vulnerable or Near Threatened under the NC Act;
- Fauna species listed as Endangered, Vulnerable, Near Threatened or Special Least Concern under the NC Act;
- Connectivity values;
- Essential habitat; and
- Watercourses for fish habitat.

Construction of the Project will result in the removal of native vegetation and disturbance of existing ground conditions, on either a temporary or permanent basis. The assessment identified the following as potential impacts that may occur to ecological values as a result of the Project:

- Loss of habitat;
- Fragmentation of habitat and loss of connectivity;
- Injury or mortality of fauna species;
- Disturbance to habitat from noise, light and vibration; and
- Habitat degradation from invasive species and inappropriate fire regimes.

The proponent has undertaken significant work in designing the Project footprint to avoid the areas of greatest ecological value within the Project area. Wherever practicable, the Project footprint has been sites in areas of lower ecological value, including the avoidance of patches of rainforest vegetation and of areas known to support listed threatened flora species to the greatest extent practicable. This has resulted in a Project design that largely conserves the habitats and characteristics of highest ecological value within the Project area.

Significant residual impact assessments were carried out for MSES using the SRI Guideline (DSDIP 2014) and it was found that the Project is likely to result in a significant residual impact to Of Concern REs, watercourse vegetation and essential habitat. Offsets for these residual impacts will be required in accordance with the Queensland Environmental Offsets Policy.

The Project design demonstrates compliance with PO5 of State Code 23, as it has ensured that impacts on flora, fauna and associated ecological processes are avoided, or minimised and mitigated, through effective siting, design and operation of the development.



13.0 References

AmphibiaWeb 2019 Litoria serrata: Green-eyed treefrog <<u>https://amphibiaweb.org/species/7469</u>> University of California, Berkeley, CA, USA.

Aplin, K., Dickman, C., Salas, L. & Helgen, K. 2016. *Tachyglossus aculeatus*. The IUCN Red List of Threatened Species 2016: e.T41312A21964662.

Baerwald, EF, D'Amours, GH, Baerwald, BJ, Barclay, RMR (2008). Barotrauma is a significant cause of bat fatalities at wind farms. *Current Biology* 18 (16), 695-6

BirdLife International. 2016a. *Monarcha melanopsis*. The IUCN Red List of Threatened Species 2016: e.T22707243A94112953

BirdLife International. 2016b. Tringa nebularia. The IUCN Red List of Threatened Species 2016: e.T22693220A86684205.

BirdLife International. 2017a. *Symposiachrus trivirgatus*. The IUCN Red List of Threatened Species 2017: e.T22707277A118762990.

BirdLife International. 2017b. *Motacilla cinerea*. The IUCN Red List of Threatened Species 2017: e.T22718392A111215843

BirdLife International. 2017c. *Myiagra cyanoleuca*. The IUCN Red List of Threatened Species 2017: e.T22707403A118760627.

BirdLife International. 2017d. *Numenius madagascariensis*. The IUCN Red List of Threatened Species 2017: e.T22693199A118601473.

BirdLife International (2018) *Tyto novaehollandiae*. *The IUCN Red List of Threatened Species* 2018: e. T62172196A132190206 <u>https://www.iucnredlist.org/species/62172196/132190206</u>

BirdLife International. 2019a. *Motacilla flava* (amended version of 2018 assessment). The IUCN Red List of Threatened Species 2019: e.T103822349A155602678.

BirdLife International. 2019b. *Pandion haliaetus* (amended version of 2016 assessment). The IUCN Red List of Threatened Species 2019: e.T22694938A155519951.

BirdLife International. 2019c. *Cuculus saturatus* (amended version of 2016 assessment). The IUCN Red List of Threatened Species 2019: e.T61450351A155502296.

BirdLife International. 2019d. Apus pacificus (amended version of 2016 assessment). The IUCN Red List of ThreatenedSpecies2019:e.T22686845A155438660.3.RLTS.T22686845A155438660.en.https://dx.doi.org/10.2305/IUCN.UK.2016-

Burbidge, A., Harrison, P. & Woinarski, J. (2014). The action plan for Australian mammals 2012. CSIRO Publishing.

Centre for Australian National Biodiversity Research (CANBR) (2016). Australian Tropical Rainforest Orchids <u>http://www.cpbr.gov.au/cpbr/cd-keys/RFKOrchids/key/rfkorchids/Media/Html/Corybas abellianus.htm</u>

CANBR (2019a) *Australian Tropical Rainforest Plants Edition* 7. Australian Government, Canberra. <u>http://www.canbr.gov.au/cpbr/cd-keys/RFK7/key/RFK7/Media/Html/index rfk.htm</u>



CANBR (2019b) *Australian Tropical Rainforest Plants Edition* 7. Australian Government, Canberra <u>https://www.canbr.gov.au/cpbr/cd-keys/RFK7/key/RFK7/Media/Html/entities/Solanum hamulosum.htm</u>

Chinnock, R. J. (1998). *Huperzia*. Flora of Australia Vol. 48. McCarthy PD (Ed), ABRS/CSIRO Publishing, Melbourne, pp. 77–84.

Clague, C. (2012). Flute-nosed insectivorous bat, *Murina florium*. In: Queensland's threatened animals. (Eds Curtis, L. K., Dennis, A. J., McDonald, K. R., Kyne, P. M. & Debus, S. J. S.) pp. 384-385. (CSIRO Publishing: Collingwood.)

Conn, B.J. and Wilson, T.C. (2015) Prosthanthera (Lamiaceae) from far-north Queensland, Australia. Telopea, 18:1-11.

Cramp, S. (1988). Handbook of the Birds of Europe the Middle East and North Africa. The Birds of the Western Palearctic. Volume 5, Tyrant Flycatchers to Thrushes. Oxford University Press, Oxford.

Craven, Lyndley A.; Ford, Andrew J. (2004). "A new species of Melaleuca (Myrtaceae) from northern Queensland, Australia". Muelleria. 20: 3–8

Czechura, G.V., Hobson, R.G. & Stewart, D.A. 2010. *Distribution, status and habitat of the red goshawk Erythrotriorchis radiatus in Queensland* Corella 2010, 35(1):3-10

del Hoyo, J.; Elliott, A.; Sargatal, J. 1994. Handbook of the Birds of the World, vol. 2: New World Vultures to Guineafowl. Lynx Edicions, Barcelona, Spain.

Dennis, A.J. (2001) *Recovery plan for the northern bettong*. Queensland Parks and Wildlife Service, Brisbane.

Department of Agriculture and Fisheries (DAF) (2018). Accepted development requirements for operational work that is constructing or raising waterway barrier works. State of Queensland.

Department of Agriculture, Water and the Environment (DAWE) (2021a). *National Recovery Plan for the Grey-headed Flying-fox*. Canberra.

DAWE (2021b) National Flying Fox Monitoring Viewer accessed at: <u>http://www.environment.gov.au/webgis-framework/apps/ffc-wide/ffc-wide.jsf</u>

Department of Environment and Resource Management (DERM) 2012. National Recovery Plan for the red goshawk *Erythrotriorchis radiatus*. Report to the Department of Sustainability, Environment, Water, Population and Communities, Canberra.

Department of Environment and Science (DES). (2018). Tube-nosed insectivorous bat.

DES (2019) Wet Tropics Region: Herbert catchment water quality targets, Reef 2050 Water Quality Improvement Plan, <u>https://www.reefplan.qld.gov.au/ data/assets/pdf file/0017/46061/catchment-targets-wet-tropics-herbert.pdf</u>

DES (2020) Flora Survey Guidelines - Protected Plants. State of Queensland

DES 2021 Regional Ecosystem Description Database. Queensland Government

Department of Environment, Land, Water and Planning (DELWP) (2016). National Recovery Plan for the Spotted-Tailed Quoll *Dasyurus maculatus*. Australian Government, Canberra.

DELWP (2019) Greater glider Action Statement No. 267. State of Victoria

Department of Infrastructure, Local Government and Planning (DILGP) (2017). *State Code 23: Wind farm development*. State of Queensland.



Department of State Development, Infrastructure and Planning (DSDIP) (2014). *Significant Residual Impact Guideline for matters of state environmental significance and prescribed activities under the* Sustainable Planning Act 2009. State of Queensland.

Department of Sustainability, Environment, Water, Population and Communities (DSEWPC) (2011a) Survey guidelines for Australia's threatened mammals. Commonwealth of Australia.

DSEWPC (2011b) Survey guidelines for Australia's threatened reptiles. Commonwealth of Australia.

DSEWPC (2012a) EPBC Act Environmental Offsets Policy. Commonwealth of Australia

DSEWPC (2012c) Approved Conservation Advice for Phascolarctos cinereus. Canberra

Department of the Environment (DoE) (2013) Matters of National Environmental Significance Significant Impact Guidelines 1.1. Australian Government.

DoE (2014a) EPBC Act referral guidelines for the vulnerable koala (combined populations of Queensland, New South Wales and the Australian Capital Territory). Australian Government.

DoE (2014b) Approved Conservation Advice for *Phaius australis*. Canberra: Department of the Environment.

DoE (2014c) Approved Conservation Advice for Egernia rugosa. Canberra: Department of the Environment.

DoE (2014d) Approved Conservation Advice for Acacia purpureopetala. Canberra: Department of the Environment.

DoE (2015a). Draft referral guideline for 14 birds listed as migratory species under the EPBC Act. Commonwealth of Australia.

DoE (2015b) Conservation Advice Prostanthera clotteniana. Canberra: Department of the Environment.

DoE (2015c) Conservation Advice for Numenius madagascariensis (eastern curlew). Canberra

DoE (2016) EPBC Act referral guideline for the endangered northern quoll Dasyurus hallucatus. Commonwealth of Australia

Department of the Environment, Water, Heritage and the Arts (DEWHA) (2008a). Approved Conservation Advice for *Triplarina nitchaga*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008b). Approved Conservation Advice for *Homoranthus porteri*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008c). Approved Conservation Advice for *Alloxylon flammeum*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008d). Approved Conservation Advice for *Aponogeton bullosus*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008e). Approved Conservation Advice for *Arthraxon hispidus*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008f). Approved Conservation Advice for *Canarium acutifolium* Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008g). Approved Conservation Advice for *Carronia pedicellate* Canberra: Department of the Environment, Water, Heritage and the Arts.



DEWHA (2008h). Approved Conservation Advice for *Corymbia rhodops* Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008i). Approved Conservation Advice for *Cycas platyphylla*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008j). Approved Conservation Advice for *Dichanthium setosum*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008k). Approved Conservation Advice for *Diplazium cordifolium*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008I). Approved Conservation Advice for *Chamaesyce carissoides*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008m). Approved Conservation Advice for *Grevillea glossadenia*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008n). Approved Conservation Advice for *Lastreopsis walleri*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008o). Approved Conservation Advice for *Macropteranthes montana*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008p). Approved Conservation Advice for *Phaius pictus*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008q). Approved Conservation Advice for *Huperzia marsupilformis*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008r). Approved Conservation Advice for *Tephrosia leveillei*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008s). Approved Conservation Advice for *Dendrobium callitrophilum*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008t). Approved Conservation Advice for *Dendrobium lithocola*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008u). Approved Conservation Advice for *Zeuxine polygonoides*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2008v). Approved Conservation Advice for *Delma mitella*. Canberra: Department of the Environment, Water, Heritage and the Arts.

DEWHA (2010a) Survey guidelines for Australia's threatened bats. Commonwealth of Australia.

DEWHA (2010b) Survey guidelines for Australia's threatened birds. Commonwealth of Australia.

DEWHA (2010c) Survey guidelines for Australia's threatened frogs. Commonwealth of Australia.

DEWHA (2010d) Significant impact guidelines for the endangered southern cassowary (Casuarius casuarius johnsonii) Wet Tropics Population. Commonwealth of Australia.



Eyre T.J., Ferguson D.J., Hourigan C.L., Smith G.C., Mathieson M.T., Kelly A.L., Venz M.F., Hogan L.D. & Rowland J. (2018) Terrestrial Vertebrate Fauna Survey Assessment Guidelines for Queensland. Department of Environment and Science, Queensland Government.

Forshaw, J (1992) Australian Parrots. Ure Publishing

Geering, A., L. Agnew & S. Harding, eds. (2007). *Shorebirds of Australia*. Melbourne: CSIRO Publishing.

George, A.S. (Ed) (1985) *Flora of Australia Volume 25, Melianthaceae to Simaroubaceae*. Australian Government, Canberra

Heiner, I. & Grundy, M. 1994. Land resources of the Ravenshoe – Mt Garnet area north Queensland. Vol 1 – Land resource inventory. DPI, Queensland

Herbert, J. (2006). National recovery plan for the fern *Chingia australis*. Report to Department of the Environment and Water Resources, Canberra. Queensland Parks and Wildlife Service, Brisbane.

Hero, J.M. and Retallick, R. 2004. Litoria nannotis. The IUCN Red List of Threatened Species 2004: e.T12148A3326626.

Hero, J.M., Alford, R., Cunningham, M., McDonald, K. and Retallick, R. 2004. *Litoria rheocola*. The IUCN Red List of Threatened Species 2004: e.T12153A3327812.

Higgins, P.J. & S.J.J.F. Davies, eds (1996). Handbook of Australian, New Zealand and Antarctic Birds. Volume Three - Snipe to Pigeons. Melbourne, Victoria: Oxford University Press.

Higgins, P.J. (ed.) (1999). Handbook of Australian, New Zealand and Antarctic Birds. Volume Four - Parrots to Dollarbird. Melbourne: Oxford University Press.

Hill, B.M. and Ward, S.J. (2010). National Recovery Plan for the Northern Quoll *Dasyurus hallucatus*. Department of Natural Resources, Environment, The Arts and Sport, Darwin.

Horsfall, N. & Hall, J. 1990. People and the rainforest: an archaeological perspective. *Australian Tropical Rainforests, CSIRO, Melbourne,* p.33-39

International Union for Conservation of Nature (IUCN). 1988. World Heritage nomination – IUCN summary wet tropical rainforests (north-east Australia).

Jessup, K., Winter, J.W. and Franklin, D.C. (2020) Size of *Eucalyptus resinifera* trees, and sap-trees used by yellowbellied gliders in the Tumoulin Forest Reserve in North Queensland. *North Queensland Naturalist* 50:1-7

Jimbo, T. 2020. *Firmiana papuana*. The IUCN Red List of Threatened Species 2020: e.T142672365A143758671.

Jones, D. L. (2006). A complete guide to native orchids of Australia including the island territories. Frenchs Forest, N.S.W.: New Holland. p. 132.

Jones, D. L. & Gray, B. (1985). Two new epiphytic species of *Lycopodium* (Lycopodiaceae) from north-eastern Australia. Austrobaileya, vol. 2, no. 2, pp. 126–130.

Kramer, K.U., & Tindale, M.D. (1976) The Lindsaeoid ferns of the Old World VII. Australia and New Zealand. Telopea 1(2): 91-128, 4 pl

Latch, P. (2007) National recovery plan for the southern cassowary Casuarius casuarius johnsonii DEWHA, Canberra

MacHunter, J., Brown, G., Loyn, R. and Lumsden, L. (2011) Approved Survey Standards: Greater Glider. State of Victoria.



McDonald, K. R., Bolitho, E., Dennis, A., Simpson, N. & Winter, J. W. 2000. Recovery plan for the Magnificent Brood frog *Pseudophryne covacevichae* 2000-2004. Unpublished report to Environment Australia, Canberra.

Minton, C., & J. Whitelaw (2000). Waders roosting on mangroves. Stilt. 37:23-24.

Neldner, V.J., Wilson, B.A., Dillewaard, H.A., Ryan, T.S., Butler, D.W., McDonald, W.J.F, Addicott, E.P. and Appelman, C.N. (2020) Methology for surveying and mapping regional ecosystems and vegetation communities in Queensland. Version 5.1. State of Queensland

Rankmore, B.R. and Friend, G.R. (2008). Black-footed tree-rat *Mesembriomys gouldii*. In S. Van Dyck & R. Strahan, The Mammals of Australia (pp. 591-593). Sydney, Reed New Holland.

Reardon, T. B., Robson, S. K. A., Parsons, J. G. and Inkster, T. (2010). Review of the threatened status of microchiropteran bat species on Cape York Peninsula. South Australian Museum, Adelaide.

RPS. (2011). Fauna, Vegetation & Flora Assessment - Proposed Mt Emerald Wind Farm. Prepared by RPS Australia East Pty Ltd. Prepared for Transfield Services Pty Ltd.

Sattler, P.S. and Williams, R.D. (eds) (1999). *The Conservation Status of Queensland Bioregional Ecosystems*. Environmental Protection Agency, Brisbane.

Schodde, R. & Mason, I. J. (1999). The Directory of Australian Birds: Passerines. Melbourne, Victoria: CSIRO.

Shulz, M., Richards, G. C., Coles, R. B., Spencer, H. J. & Kutt, A. S. (2008). Flute-nosed bat *Murina florium*. In: The mammals of Australia. Third edition. (Eds Dyck, S. Van. And Strahan, R.) pp.514-515. (Reed New Holland: Chatswood).

Species Profile and Threats Database (SPRAT) 2021. Department of Agriculture, Water and the Environment. <u>https://www.environment.gov.au/cgi-bin/sprat/public/sprat.pl</u>

Threatened Species Scientific Committee (TSSC) (2001). Commonwealth Listing Advice on *Pteropus poliocephalus* (grey-headed flying-fox).

TSSC (2012b) Listing Advice for Phascolarctos cinereus (koala)

TSSC (2015a). Conservation Advice *Mesembriomys gouldii rattoides*. Canberra: Department of the Environment and Energy.

TSSC (2015b). Conservation Advice Tyto novaehollandiae kimberlii (masked owl (northern)). Canberra

TSSC (2015c). Conservation Advice Erythrotriorchis radiatus (red goshawk). Canberra

TSSC (2016a). Conservation Advice *Macroderma gigas* (ghost bat). Canberra: Department of the Environment and Energy.

TSSC (2016b). Conservation Advice *Bettongia tropica* (northern bettong). Canberra: Department of the Environment and Energy.

TSSC (2016c). Conservation Advice *Petauroides volans* (greater glider). Canberra: Department of the Environment and Energy.

TSSC (2016e) Conservation Advice Rhinolophus robertsi (Greater large-eared horseshoe bat). Canberra.

TSSC (2016f). Conservation Advice Saccolaimus saccolaimus nudicluniatus (bare-rumped sheath-tailed bat). Canberra

TSSC (2017) Conservation Advice *Pseudophryne covacevichae* (magnificent brood frog). Canberra: Department of Environment and Energy



TSSC (2019a) Conservation Advice Litoria dayi (lace-eyed tree frog). Canberra: Department of Environment and Energy

TSSC (2019b) Conservation Advice *Litoria nyakalensis* (mountain mistfrog). Canberra: Department of Environment and Energy

TSSC (2019c) Conservation Advice *Pteropus conspicillatus* (spectacled flying fox). Canberra, Department of the Environment and Energy.

TSSC (2020a) Conservation Advice *Petaurus australis* (Wet Tropics subspecies). Canberra: Department of Agriculture, Water and the Environment.

TSSC (2020b) Conservation Advice Falco hypoleucos (grey falcon). Canberra

Turner, A. & Rose, C. (1989). Swallows and Martins of the World. Christopher Helm, Bromley, UK.

UNESCO (2021) Outstanding Universal Value of the Wet Tropics of Queensland (Australia). Downloaded from <u>https://whc.unesco.org/en/list/486/</u> on 07/04/2021.

Webb, G. J. W., Sack, G. C., Buckworth, R. & Manolis, S. C. (1983). An Examination of *Crocodylus porosus* Nests in Two Northern Australia Freshwater Swamps, with an Analysis of Embryo Mortality. Australian Wildlife Research. 10:571-605.

Webb, G. J. W., Whitehead, P. J. & Manolis, S. C. (1987). Crocodile management in the Northern Territory of Australia. In: Webb, G. J. W., Manolis, S. C. & Whitehead, P. J. eds. Wildlife Management: Crocodiles and Alligators. pp. 107-124. Sydney, Surrey Beatty & Sons.

Wet Tropics Management Authority (2021) National Heritage Listing. Downloaded from <u>https://www.wettropics.gov.au/national-heritage-listing</u> on 07/04/2021.

Whitehead, P. 2003. Geological Tables: The Atherton Tablelands. The Edinburgh Geologist. Issue 41. Edinburgh

Whybird, O. J. (1996). An investigation into the vertical stratification of the Chiroptera of tropical Australian rainforests. Honours thesis, Department of Physiology and Pharmacology, University of Queensland, Brisbane.

Williams, E. 2019a. Calochlaena villosa. The IUCN Red List of Threatened Species 2019: e.T135464039A135464041.

Williams, E. 2019b. Sphaeropteris celebica. The IUCN Red List of Threatened Species 2019: e.T122230349A122269809.

Wilson, P. R. & Taylor, P. M. 2012. Land Zones of Queensland. Queensland Herbarium, Queensland Department of Science, Information Technology, Innovation and the Arts, Brisbane. P.75-76.

Woinarski, J.C.Z. 2004. National Multi-Species Recovery Plan for the Partridge Pigeon [eastern subspecies] Geophaps smithii smithii, Crested Shrike-tit [northern subspecies] Falcunculus (frontatus) whitei, Masked Owl [north Australian mainland subspecies] Tyto novaehollandiae kimberlii, and Masked Owl [Tiwi Island subspecies] Tyto novaehollandiae melvillensis 2004-2009. Northern Territory Department of Infrastructure Planning and Environment, Darwin

Woinarski, J. & Burbidge, A.A. 2016a. *Mesembriomys gouldii*. The IUCN Red List of Threatened Species 2016: e.T13211A22448856.

Woinarski, J. & Burbidge, A.A. 2016b. *Dendrolagus lumholtzi. The IUCN Red List of Threatened Species* 2016: e.T6432A21957815.

Woinarski, J. & Burbidge, A.A. 2016c. Ornithorhynchus anatinus. The IUCN Red List of Threatened Species 2016: e.T40488A21964009.



Appendix A





Australian Government

Department of Agriculture, Water and the Environment

EPBC Act Protected Matters Report

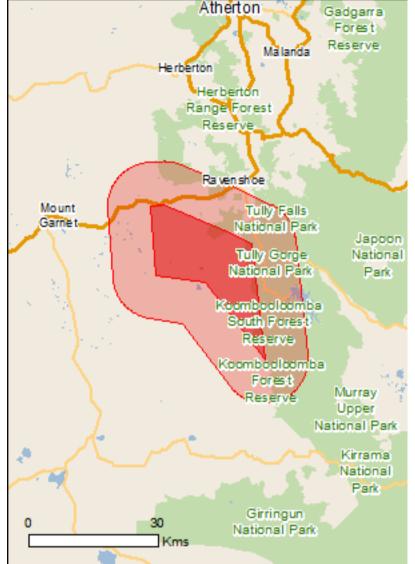
This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

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.

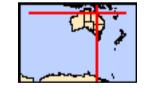
Report created: 03/05/21 10:42:10

Summary Details Matters of NES Other Matters Protected by the EPBC Act Extra Information Caveat Acknowledgements



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2015

Coordinates Buffer: 10.0Km



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:	1
National Heritage Places:	2
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	2
Listed Threatened Ecological Communities: Listed Threatened Species:	2 53

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:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	24
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	11
Regional Forest Agreements:	None
Invasive Species:	28
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

World Heritage Properties		[Resource Information]
Name	State	Status
Wet Tropics of Queensland	QLD	Declared property
National Heritage Properties		[Resource Information]
Name	State	Status
Natural		
Wet Tropics of Queensland	QLD	Listed place
Indigenous		
Wet Tropics World Heritage Area (Indigenous Values)	QLD	Within listed place

Listed Threatened Ecological Communities

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.

[Resource Information]

Name Broad leaf tea-tree (Melaleuca viridiflora) woodlands in high rainfall coastal north Queensland	Status Endangered	Type of Presence Community likely to occur within area
Mabi Forest (Complex Notophyll Vine Forest 5b)	Critically Endangered	Community likely to occur within area
Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
<u>Calidris ferruginea</u> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Casuarius casuarius johnsonii Southern Cassowary, Australian Cassowary, Double- wattled Cassowary [25986]	Endangered	Species or species habitat known to occur within area
<u>Erythrotriorchis radiatus</u> Red Goshawk [942]	Vulnerable	Species or species habitat known to occur within area

<u>Falco hypoleucos</u> Grey Falcon [929]	Vulnerable	Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<u>Turnix olivii</u> Buff-breasted Button-quail [59293]	Endangered	Species or species habitat likely to occur within area

Name	Status	Type of Presence
<u>Tyto novaehollandiae kimberli</u> Masked Owl (northern) [26048]	Vulnerable	Species or species habitat likely to occur within area
Frogs		
<u>Litoria dayi</u> Australian Lace-lid, Lace-eyed Tree Frog, Day's Big- eyed Treefrog [86707]	Vulnerable	Species or species habitat known to occur within area
<u>Litoria nyakalensis</u> Mountain Mistfrog, Nyakala Frog [1820]	Critically Endangered	Species or species habitat likely to occur within area
<u>Pseudophryne covacevichae</u> Magnificent Brood Frog [64385]	Vulnerable	Species or species habitat known to occur within area
Mammals		
Bettongia tropica Northern Bettong [214]	Endangered	Species or species habitat may occur within area
<u>Dasyurus hallucatus</u> Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat likely to occur within area
Dasyurus maculatus gracilis Spotted-tailed Quoll (North Queensland), Yarri [64475]	Endangered	Species or species habitat known to occur within area
<u>Hipposideros semoni</u> Semon's Leaf-nosed Bat, Greater Wart-nosed Horseshoe-bat [180]	Vulnerable	Species or species habitat may occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Breeding likely to occur within area
Mesembriomys gouldii rattoides Black-footed Tree-rat (north Queensland), Shaggy Rabbit-rat [87620]	Vulnerable	Species or species habitat likely to occur within area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat known to occur within area
Petaurus australis Wet Tropics subspecies Yellow-bellied Glider (Wet Tropics), Fluffy Glider [88022]	Endangered	Foraging, feeding or related behaviour known to occur within area
Phascolarctos cinereus (combined populations of Qld, Koole (combined populations of Queepeland, New	,	Spacios or openios habitat
Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104] <u>Pteropus conspicillatus</u>	Vulnerable	Species or species habitat known to occur within area
Spectacled Flying-fox [185]	Endangered	Species or species habitat known to occur within area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour may occur within area
<u>Rhinolophus robertsi</u> Large-eared Horseshoe Bat, Greater Large-eared Horseshoe Bat [87639]	Vulnerable	Species or species habitat likely to occur within area
Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889]	Vulnerable	Species or species habitat likely to occur within area
Plants		
<u>Acacia purpureopetala</u> Purple-flowered Wattle [61156]	Critically Endangered	Species or species habitat likely to occur

Name	Status	Type of Presence
		within area
<u>Alloxylon flammeum</u> Red Silky Oak, Queensland Waratah, Tree Waratah [56400]	Vulnerable	Species or species habitat known to occur within area
Aponogeton bullosus [8299]	Endangered	Species or species habitat likely to occur within area
		,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,
<u>Arthraxon hispidus</u> Hairy-joint Grass [9338]	Vulnerable	Species or species habitat likely to occur within area
<u>Canarium acutifolium</u> [23956]	Vulnerable	Species or species habitat likely to occur within area
Carronia pedicellata		
[24178]	Endangered	Species or species habitat likely to occur within area
Chingia australis [24603]	Endangered	Species or species habitat likely to occur within area
<u>Corymbia rhodops</u> [64015]	Vulnerable	Species or species habitat may occur within area
<u>Cycas platyphylla</u> a cycad [55796]	Vulnerable	Species or species habitat known to occur within area
<u>Dichanthium setosum</u> bluegrass [14159]	Vulnerable	Species or species habitat likely to occur within area
Diplazium cordifolium [15585]	Vulnerable	Species or species habitat likely to occur within area
Euphorbia carissoides [12431]	Vulnerable	Species or species habitat likely to occur within area
<u>Grevillea glossadenia</u> [7979]	Vulnerable	Species or species habitat known to occur within area
<u>Homoranthus porteri</u> [55196]	Vulnerable	Species or species habitat known to occur within area
<u>Lastreopsis walleri</u> a fern [18229]	Vulnerable	Species or species habitat known to occur within area
Macropteranthes montana [9003]	Vulnerable	Species or species habitat may occur within area
<u>Phaius australis</u> Lesser Swamp-orchid [5872]	Endangered	Species or species habitat may occur within area
<u>Phaius pictus</u> [22564]	Vulnerable	Species or species habitat likely to occur within area
Phlegmariurus marsupiiformis Water Tassel-fern [86553]	Vulnerable	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Polyphlebium endlicherianum Middle Filmy Fern [87494]	Endangered	Species or species habitat likely to occur within area
<u>Prostanthera clotteniana</u> [76165]	Critically Endangered	Species or species habitat known to occur within area
<u>Tephrosia leveillei</u> [16946]	Vulnerable	Species or species habitat may occur within area
<u>Triplarina nitchaga</u> [64593]	Vulnerable	Species or species habitat likely to occur within area
<u>Tropilis callitrophilis</u> Thin Feather Orchid [82771]	Vulnerable	Species or species habitat known to occur within area
Vappodes lithocola Dwarf Butterfly Orchid, Cooktown Orchid [78893]	Endangered	Species or species habitat likely to occur within area
Zeuxine polygonoides Velvet Jewel Orchid [46794]	Vulnerable	Species or species habitat may occur within area
Reptiles		
Delma mitella Atherton Delma, Legless Lizard [25931]	Vulnerable	Species or species habitat known to occur within area
<u>Egernia rugosa</u> Yakka Skink [1420]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species * Species is listed under a different scientific name on Name Migratory Marine Birds	the EPBC Act - Threatened Threatened	[Resource Information] d Species list. Type of Presence
<u>Apus pacificus</u> Fork-tailed Swift [678]		Species or species habitat likely to occur within area

Migratory Marine Species

Crocodylus porosus

Salt-water Crocodile, Estuarine Crocodile [1774]

Species or species habitat likely to occur within area

Migratory Terrestrial Species

Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]

Hirundapus caudacutus White-throated Needletail [682]

Hirundo rustica Barn Swallow [662]

Monarcha melanopsis Black-faced Monarch [609]

Monarcha trivirgatus Spectacled Monarch [610] Vulnerable

Species or species habitat likely to occur within area

Species or species habitat

may occur within area

Species or species habitat likely to occur within area

Species or species habitat known to occur within area

Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
<u>Motacilla flava</u> Yellow Wagtail [644]		Species or species habitat likely to occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat likely to occur within area
<u>Rhipidura rufifrons</u> Rufous Fantail [592]		Species or species habitat known to occur within area
Migratory Wetlands Species		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat likely to occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
Gallinago hardwickii		
Latham's Snipe, Japanese Snipe [863]		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 likely to occur within area

Tringa nebularia

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on	the EPBC Act - Threatened	d Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat likely to occur within area
Anseranas semipalmata		
Magpie Goose [978]		Species or species habitat may occur within area
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
<u>Ardea ibis</u> Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
<u>Calidris ferruginea</u> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<u>Calidris melanotos</u> Pectoral Sandpiper [858]		Species or species habitat may occur within area
<u>Chrysococcyx osculans</u> Black-eared Cuckoo [705]		Species or species habitat may occur within area
<u>Gallinago hardwickii</u> Latham's Snipe, Japanese Snipe [863]		Species or species habitat known to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat likely to occur within area
<u>Hirundo rustica</u> Barn Swallow [662]		Species or species habitat likely to occur within area
<u>Merops ornatus</u> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<u>Monarcha melanopsis</u> Black-faced Monarch [609]		Species or species habitat known to occur within area
Monarcha trivirgatus Spectacled Monarch [610]		Species or species habitat

Spectacled Monarch [610]

Motacilla cinerea Grey Wagtail [642]

Motacilla flava Yellow Wagtail [644]

Myiagra cyanoleuca Satin Flycatcher [612]

Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]

Pandion haliaetus Osprey [952]

Rhipidura rufifrons Rufous Fantail [592] Species or species habitat known to occur within area

Species or species habitat may occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Critically Endangered

Species or species habitat may occur within area

Species or species habitat likely to occur within area

Species or species habitat known to occur within area

Name	Threatened	Type of Presence
<u>Rostratula benghalensis (sensu lato)</u>		
Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat may occur within area
Reptiles		
Crocodylus porosus		
Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Alcock	QLD
Kirrama	QLD
Koombooloomba	QLD
Koombooloomba	QLD
Koombooloomba South	QLD
Millstream Falls	QLD
Ravenshoe 1	QLD
Tully Falls	QLD
Tully Gorge	QLD
Yourka	QLD
Yourka Reserve	QLD

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	Oldido	
Acridotheres tristis		
Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos		
Mallard [974]		Species or species habitat likely to occur within area
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon	[803]	Species or species habitat likely to occur within area
Lonchura punctulata		
Nutmeg Mannikin [399]		Species or species habitat likely to occur within area
Passer domesticus		
House Sparrow [405]		Species or species habitat likely to occur within area
Streptopelia chinensis		
Spotted Turtle-Dove [780]		Species or species

Name	Status	Type of Presence habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Frogs		
Rhinella marina Cane Toad [83218]		Species or species habitat known to occur within area
Mammals		
Bos taurus Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
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

Acacia nilotica subsp. indica Prickly Acacia [6196]

Annona glabra Pond Apple, Pond-apple Tree, Alligator Apple, Bullock's Heart, Cherimoya, Monkey Apple, Bobwood, Corkwood [6311] Cabomba caroliniana Cabomba, Fanwort, Carolina Watershield, Fish Grass, Washington Grass, Watershield, Carolina Fanwort, Common Cabomba [5171] Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]

Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913] Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754]

Species or species habitat may occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat may occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Name	Status	Type of Presence
Lantana camara	Oldius	
Lantana, Common Lantana, Kamara Lantana, Large-		Species or species habitat
leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		likely to occur within area
Parthenium hysterophorus		
Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566]		Species or species habitat likely to occur within area
Salvinia molesta		
Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Senecio madagascariensis		
Fireweed, Madagascar Ragwort, Madagascar Groundsel [2624]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus		
Asian House Gecko [1708]		Species or species habitat likely to occur within area
Nationally Important Wetlands		[Resource Information]
Name		State
Innot Hot Springs		QLD

Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-17.959564 145.546847,-17.959564 145.546847,-17.807632 145.424968,-17.793249 145.321971,-17.655899 145.311671,-17.653936 145.338107,-17.70431 145.463763,-17.730474 145.521785,-17.959564 145.546847

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 Government National Environmental Scien

-Australian Institute of Marine Science

-Reef Life Survey Australia

-American Museum of Natural History

-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania

-Tasmanian Museum and Art Gallery, Hobart, Tasmania

-Other groups and individuals

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

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

© Commonwealth of Australia Department of Agriculture Water and the Environment GPO Box 858 Canberra City ACT 2601 Australia +61 2 6274 1111



Wildlife Online Extract

Search Criteria: Species List for a Defined Area Species: All Type: All Status: All Records: All Date: Since 1980 Latitude: 17.655 to 17.966 Longitude: 145.3 to 145.563 Email: nikki.odonnell@attexo.com.au Date submitted: Monday 03 May 2021 10:34:29 Date extracted: Monday 03 May 2021 10:40:02

The number of records retrieved = 894

Disclaimer

As the DSITIA is still in a process of collating and vetting data, it is possible the information given is not complete. The information provided should only be used for the project for which it was requested and it should be appropriately acknowledged as being derived from Wildlife Online when it is used.

The State of Queensland does not invite reliance upon, nor accept responsibility for this information. Persons should satisfy themselves through independent means as to the accuracy and completeness of this information.

No statements, representations or warranties are made about the accuracy or completeness of this information. The State of Queensland disclaims all responsibility for this information and all liability (including without limitation, liability in negligence) for all expenses, losses, damages and costs you may incur as a result of the information being inaccurate or incomplete in any way for any reason.

Feedback about Wildlife Online should be emailed to wildlife.online@science.dsitia.qld.gov.au

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
animals	amphibians	Bufonidae	Rhinella marina	cane toad	Y			34
animals	amphibians	Hylidae	Litoria fallax	eastern sedgefrog		С		24
animals	amphibians	Hylidae	Litoria nasuta	striped rocketfrog		С		19
animals	amphibians	Hylidae	Litoria rothii	northern laughing treefrog		С		6
animals	amphibians	Hylidae	Litoria bicolor	northern sedgefrog		С		2
animals	amphibians	Hylidae	Litoria latopalmata	broad palmed rocketfrog		С		2
animals	amphibians	Hylidae	Litoria jungguy	northern stony creek frog		С		2
animals	amphibians	Hylidae	Litoria rubella	ruddy treefrog		С		19
animals	amphibians	Hylidae	Litoria serrata	tapping green eyed frog		V		29/7
animals	amphibians	Hylidae	Litoria caerulea	common green treefrog		С		7
animals	amphibians	Hylidae	Litoria gracilenta	graceful treefrog		С		29
animals	amphibians	Hylidae	Litoria xanthomera	orange thighed treefrog		С		14
animals	amphibians	Hylidae	Litoria lesueuri sensu lato	stony creek frog		C		15
animals	amphibians	Hylidae	Litoria inermis	bumpy rocketfrog		C		37
animals	amphibians	Limnodynastidae	Limnodynastes convexiusculus	marbled frog		C		1
animals	amphibians	Limnodynastidae	Platyplectrum ornatum	ornate burrowing frog		Č		13
animals	amphibians	Limnodynastidae	Limnodynastes terraereginae	scarlet sided pobblebonk		č		20
animals	amphibians	Limnodynastidae	Limnodynastes peronii	striped marshfrog		Č		42
animals	amphibians	Microhylidae	Cophixalus infacetus	creaking nurseryfrog		Č		1
animals	amphibians	Microhylidae	Cophixalus australis	southern ornate nursery-frog		č		125/19
animals	amphibians	Microhylidae	Austrochaperina pluvialis	white browed whistlefrog		Č		3
animals	amphibians	Microhylidae	Austrochaperina robusta	robust whistlefrog		č		9/2
animals	amphibians	Myobatrachidae	Mixophyes schevilli sensu lato	northern barred frog		č		6
animals	amphibians	Myobatrachidae	Pseudophryne covacevichae	magnificent broodfrog		v	V	39
animals	amphibians	Myobatrachidae	Taudactylus acutirostris	sharp snouted dayfrog		ΡE	ĒΧ	2
animals	amphibians	Myobatrachidae	Mixophyes schevilli	northern barred frog		Ċ	-//	10/3
animals	amphibians	Myobatrachidae	Mixophyes coggeri	mottled barred frog		č		1
animals	amphibians	Myobatrachidae	Uperoleia altissima	tableland gungan		č		53/1
animals	birds	Acanthizidae	Acanthiza katherina	mountain thornbill		č		30
animals	birds	Acanthizidae	Acanthiza reguloides	buff-rumped thornbill		č		1
animals	birds	Acanthizidae	Sericornis keri	Atherton scrubwren		č		12
animals	birds	Acanthizidae	Gerygone mouki	brown gerygone		č		24
animals	birds	Acanthizidae	Gerygone olivacea	white-throated gerygone		č		2
animals	birds	Acanthizidae	Sericornis frontalis	white-browed scrubwren		č		1
animals	birds	Acanthizidae	Oreoscopus gutturalis	fernwren		Č		14
animals	birds	Acanthizidae	Sericornis magnirostra	large-billed scrubwren		č		47
animals	birds	Acanthizidae	Smicrornis brevirostris	weebill		Č		4
animals	birds	Acanthizidae	Sericornis citreogularis	yellow-throated scrubwren		Č		42
animals	birds	Accipitridae	Haliaeetus leucogaster	white-bellied sea-eagle		č		1
animals	birds	Accipitridae	Haliastur sphenurus	whistling kite		č		2
animals	birds	Accipitridae	Accipiter fasciatus	brown goshawk		c		2
animals	birds	Accipitridae	Aquila audax	wedge-tailed eagle		č		3
animals	birds	Accipitridae	Accipiter cirrocephalus	collared sparrowhawk		č		1/1
animals	birds	Accipitridae	Erythrotriorchis radiatus	red goshawk		E	V	2
animals	birds	Accipitridae	Accipiter novaehollandiae	grey goshawk		Ċ	v	2
animals	birds	Aegothelidae	Aegotheles cristatus	Australian owlet-nightjar		č		15
animais	bilus	Aeyotheliuae	กษายายายายายายายายายายายายายายายายายายาย			U		10

Kingdom	Class	Family	Scientific Name	Common Name	I Q	А	Records
animals	birds	Alcedinidae	Ceyx azureus	azure kingfisher	С		3
animals	birds	Alcedinidae	Ceyx pusillus	little kingfisher	С		1
animals	birds	Anatidae	Nettapus coromandelianus	cotton pygmy-goose	С		1
animals	birds	Anatidae	Nettapus pulchellus	green pygmy-goose	С		1
animals	birds	Anatidae	Dendrocygna arcuata	wandering whistling-duck	С		1
animals	birds	Anatidae	Anas superciliosa	Pacific black duck	С		4
animals	birds	Anatidae	Aythya australis	hardhead	С		1
animals	birds	Anatidae	Anas gracilis	grey teal	С		1
	birds	Anatidae	Cygnus atratus	black swan	С		1
	birds	Anhingidae	Anhinga novaehollandiae	Australasian darter	С		1
animals	birds	Apodidae	Aerodramus terraereginae	Australian swiftlet	С		3
animals	birds	Ardeidae	Nycticorax caledonicus	nankeen night-heron	С		1
animals	birds	Ardeidae	Ardea pacifica	white-necked heron	С		1
animals	birds	Ardeidae	Ardea intermedia	intermediate egret	С		1
animals	birds	Ardeidae	Egretta garzetta	little egret	С		2
animals	birds	Ardeidae	Ardea alba modesta	eastern great egret	С		1
animals	birds	Ardeidae	Egretta novaehollandiae	white-faced heron	С		4
animals	birds	Artamidae	Artamus leucorynchus	white-breasted woodswallow	С		2
animals	birds	Artamidae	Cracticus nigrogularis	pied butcherbird	С		6
animals	birds	Artamidae	Gymnorhina tibicen	Australian magpie	С		8
animals	birds	Artamidae	Strepera graculina	pied currawong	С		29
animals	birds	Artamidae	Cracticus torquatus	grey butcherbird	С		10
animals	birds	Burhinidae	Burhinus grallarius	bush stone-curlew	С		6
animals	birds	Cacatuidae	Calyptorhynchus banksii banksii	red-tailed black-cockatoo	С		2
				(Cape York & Eastern Aust)			
animals	birds	Cacatuidae	Cacatua galerita	sulphur-crested cockatoo	С		39
	birds	Cacatuidae	Calyptorhynchus banksii	red-tailed black-cockatoo	С		7
animals	birds	Campephagidae	Coracina papuensis	white-bellied cuckoo-shrike	С		13
	birds	Campephagidae	Coracina tenuirostris	cicadabird	С		12
animals	birds	Campephagidae	Coracina novaehollandiae	black-faced cuckoo-shrike	С		7
animals	birds	Campephagidae	Coracina lineata	barred cuckoo-shrike	С		10
animals	birds	Campephagidae	Lalage tricolor	white-winged triller	С		2
	birds	Campephagidae	Lalage leucomela	varied triller	С		4
animals	birds	Casuariidae	Dromaius novaehollandiae	emu	С		4
animals	birds	Casuariidae	Casuarius casuarius johnsonii (southern population)	southern cassowary (southern population)	E	Е	15
animals	birds	Charadriidae	Elseyornis melanops	black-fronted dotterel	С		1
animals	birds	Charadriidae	Vanellus miles	masked lapwing	С		2
animals	birds	Climacteridae	Cormobates leucophaea minor	white-throated treecreeper (northern)	С		23
animals	birds	Climacteridae	Cormobates leucophaea	white-throated treecreeper	С		27
animals	birds	Columbidae	Geophaps scripta peninsulae	squatter pigeon (northern subspecies)	С		8
	birds	Columbidae	Lopholaimus antarcticus	topknot pigeon	С		4
	birds	Columbidae	Macropygia amboinensis	brown cuckoo-dove	С		37/1
	birds	Columbidae	Ptilinopus magnificus	wompoo fruit-dove	С		25
	birds	Columbidae	Ptilinopus superbus	superb fruit-dove	С		37
	birds	Columbidae	Phaps chalcoptera	common bronzewing	С		11

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
animals	birds	Columbidae	Ocyphaps lophotes	crested pigeon		С		6
animals	birds	Columbidae	Columba leucomela	white-headed pigeon		С		2
animals	birds	Columbidae	Geophaps scripta	squatter pigeon		С		3
animals	birds	Columbidae	Geopelia striata	peaceful dove		С		15
animals	birds	Columbidae	Chalcophaps indica	emerald dove		С		10
animals	birds	Coraciidae	Eurystomus orientalis	dollarbird		С		5
animals	birds	Corvidae	Corvus orru	Torresian crow		С		13
animals	birds	Corvidae	Corvus coronoides	Australian raven		С		1
animals	birds	Cuculidae	Cacomantis variolosus	brush cuckoo		С		6
animals	birds	Cuculidae	Chalcites lucidus	shining bronze-cuckoo		С		10
animals	birds	Cuculidae	Chalcites basalis	Horsfield's bronze-cuckoo		С		1
animals	birds	Cuculidae	Centropus phasianinus	pheasant coucal		C		11
animals	birds	Cuculidae	Cacomantis flabelliformis	fan-tailed cuckoo		Č		7
animals	birds	Cuculidae	Scythrops novaehollandiae	channel-billed cuckoo		č		5
animals	birds	Cuculidae	Eudynamys orientalis	eastern koel		č		3
animals	birds	Dicruridae	Dicrurus bracteatus	spangled drongo		č		17
animals	birds	Estrildidae	Neochmia temporalis	red-browed finch		č		14
animals	birds	Eurostopodidae	Eurostopodus argus	spotted nightjar		č		1
animals	birds	Eurostopodidae	Eurostopodus mystacalis	white-throated nightjar		č		1
animals	birds	Halcyonidae	Dacelo leachii	blue-winged kookaburra		č		9/1
animals	birds	Halcyonidae	Tanysiptera sylvia	buff-breasted paradise-kingfisher		c		3/1
	birds			forest kingfisher		c		5
animals	birds	Halcyonidae	Todiramphus macleayii	sacred kingfisher		c		3
animals		Halcyonidae	Todiramphus sanctus					
animals	birds	Halcyonidae	Dacelo novaeguineae	laughing kookaburra		С		23 1
animals	birds	Jacanidae	Irediparra gallinacea	comb-crested jacana		С		•
animals	birds	Maluridae	Malurus melanocephalus	red-backed fairy-wren		С		12
animals	birds	Megaluridae	Megalurus timoriensis	tawny grassbird		C		1
animals	birds	Megapodiidae	Alectura lathami	Australian brush-turkey		С		5
animals	birds	Megapodiidae	Megapodius reinwardt	orange-footed scrubfowl		С		22
animals	birds	Meliphagidae	Entomyzon cyanotis	blue-faced honeyeater		С		10
animals	birds	Meliphagidae	Phylidonyris niger	white-cheeked honeyeater		С		1
animals	birds	Meliphagidae	Bolemoreus frenatus	bridled honeyeater		С		34
animals	birds	Meliphagidae	Stomiopera unicolor	white-gaped honeyeater		С		1
animals	birds	Meliphagidae	Cissomela pectoralis	banded honeyeater		С		1
animals	birds	Meliphagidae	Lichmera indistincta	brown honeyeater		С		10
animals	birds	Meliphagidae	Melithreptus lunatus	white-naped honeyeater		С		3
animals	birds	Meliphagidae	Philemon corniculatus	noisy friarbird		С		17
animals	birds	Meliphagidae	Xanthotis flaviventer	tawny-breasted honeyeater		С		1
animals	birds	Meliphagidae	Xanthotis macleayanus	Macleay's honeyeater		С		9
animals	birds	Meliphagidae	Manorina melanocephala	noisy miner		С		12
animals	birds	Meliphagidae	Microptilotis gracilis	graceful honeyeater		С		2
animals	birds	Meliphagidae	Myzomela sanguinolenta	scarlet honeyeater		Č		11
animals	birds	Meliphagidae	Philemon citreogularis	little friarbird		Č		10
animals	birds	Meliphagidae	Melithreptus albogularis	white-throated honeyeater		č		4
animals	birds	Meliphagidae	Acanthorhynchus tenuirostris	eastern spinebill		č		9
animals	birds	Meliphagidae	Ptilotula fusca	fuscous honeyeater		č		4

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
animals	birds	Meliphagidae	Meliphaga notata	yellow-spotted honeyeater		С		2
animals	birds	Meliphagidae	Meliphaga lewinii	Lewin's honeyeater		С		35
animals	birds	Meliphagidae	Caligavis chrysops	yellow-faced honeyeater		С		12
animals	birds	Meropidae	Merops ornatus	rainbow bee-eater		С		5
animals	birds	Monarchidae	Arses kaupi	pied monarch		С		2
animals	birds	Monarchidae	Machaerirhynchus flaviventer	yellow-breasted boatbill		С		6
animals	birds	Monarchidae	Symposiachrus trivirgatus	spectacled monarch		SL		16
animals	birds	Monarchidae	Carterornis leucotis	white-eared monarch		С		1
animals	birds	Monarchidae	Monarcha melanopsis	black-faced monarch		SL		24
animals	birds	Monarchidae	Grallina cyanoleuca	magpie-lark		С		5
animals	birds	Monarchidae	Myiagra rubecula	leaden flycatcher		С		6
animals	birds	Nectariniidae	Dicaeum hirundinaceum	mistletoebird		С		10
animals	birds	Neosittidae	Daphoenositta chrysoptera	varied sittella		С		6
animals	birds	Oriolidae	Sphecotheres vieilloti	Australasian figbird		С		2
animals	birds	Oriolidae	Öriolus flavocinctus	yellow oriole		С		1
animals	birds	Oriolidae	Oriolus sagittatus	olive-backed oriole		Ċ		9
animals	birds	Orthonychidae	Orthonyx spaldingii	chowchilla		Č		21
animals	birds	Pachycephalidae	Colluricincla boweri	Bower's shrike-thrush		Č		35
animals	birds	Pachycephalidae	Colluricincla harmonica	grey shrike-thrush		Č		10
animals	birds	Pachycephalidae	Pachycephala pectoralis	golden whistler		Č		36
animals	birds	Pachycephalidae	Pachycephala rufiventris	rufous whistler		Č		10
animals	birds	Pachycephalidae	Colluricincla megarhyncha	little shrike-thrush		č		18
animals	birds	Pachycephalidae	Pachycephala simplex peninsulae	grey whistler		č		1
animals	birds	Paradisaeidae	Ptiloris victoriae	Victoria's riflebird		č		27
animals	birds	Pardalotidae	Pardalotus striatus	striated pardalote		č		6
animals	birds	Pardalotidae	Pardalotus punctatus	spotted pardalote		č		õ
animals	birds	Pelecanidae	Pelecanus conspicillatus	Australian pelican		č		2
animals	birds	Petroicidae	Eopsaltria australis	eastern yellow robin		č		6
animals	birds	Petroicidae	Heteromyias cinereifrons	grey-headed robin		č		58
animals	birds	Petroicidae	Microeca flavigaster	lemon-bellied flycatcher		č		4
animals	birds	Petroicidae	Tregellasia capito	pale-yellow robin		č		16
animals	birds	Petroicidae	Microeca fascinans	jacky winter		c		2
animals	birds	Phalacrocoracidae	Phalacrocorax sulcirostris	little black cormorant		c		2
animals	birds	Phalacrocoracidae	Microcarbo melanoleucos	little pied cormorant		c		2
animals	birds	Phasianidae	Coturnix ypsilophora			c		2
	birds			brown quail		c		2
animals	birds	Podargidae	Podargus strigoides	tawny frogmouth		c		0
animals		Pomatostomidae Psittacidae	Pomatostomus temporalis	grey-crowned babbler		Č		33
animals	birds		Trichoglossus haematodus moluccanus	rainbow lorikeet		0		
animals	birds	Psittacidae	Cyclopsitta diophthalma macleayana	Macleay's fig-parrot		V		4
animals	birds	Psittacidae	Trichoglossus chlorolepidotus	scaly-breasted lorikeet		C		24
animals	birds	Psittacidae	Aprosmictus erythropterus	red-winged parrot		С		4
animals	birds	Psittacidae	Platycercus elegans	crimson rosella		С		12
animals	birds	Psittacidae	Platycercus adscitus	pale-headed rosella		C		11
animals	birds	Psittacidae	Parvipsitta pusilla	little lorikeet		C		8
animals	birds	Psittacidae	Alisterus scapularis	Australian king-parrot		C		22
animals	birds	Psophodidae	Psophodes olivaceus	eastern whipbird		С		30

Kingdom	Class	Family	Scientific Name	Common Name	Ι	Q	А	Records
animals	birds	Ptilonorhynchidae	Scenopoeetes dentirostris	tooth-billed bowerbird		С		36
animals	birds	Ptilonorhynchidae	Ptilonorhynchus violaceus	satin bowerbird		С		4
animals	birds	Ptilonorhynchidae	Ptilonorhynchus nuchalis	great bowerbird		С		3
animals	birds	Ptilonorhynchidae	Ailuroedus maculosus	spotted catbird		С		26
animals	birds	Ptilonorhynchidae	Amblyornis newtonianus	golden bowerbird		С		12
animals	birds	Rallidae	Gallinula tenebrosa	dusky moorhen		С		3
animals	birds	Rhipiduridae	Rhipidura albiscapa	grey fantail		Ċ		47
animals	birds	Rhipiduridae	Rhipidura rufifrons	rufous fantail		SL		20
animals	birds	Rhipiduridae	Rhipidura leucophrys	willie wagtail		C		8
animals	birds	Strigidae	Ninox boobook	southern boobook		č		17
animals	birds	Strigidae	Ninox rufa queenslandica	rufous owl (southern subspecies)		Č		5
animals	birds	Strigidae	Ninox connivens	barking owl		č		4
animals	birds	Threskiornithidae	Threskiornis spinicollis	straw-necked ibis		č		1
animals	birds	Threskiornithidae	Platalea regia	royal spoonbill		č		1
animals	birds	Threskiornithidae	Threskiornis molucca	Australian white ibis		č		1
animals	birds	Timaliidae	Zosterops lateralis	silvereye		c		7
animals	birds	Turdidae	Zoothera lunulata	Bassian thrush		c		5
	birds		Tyto delicatula			C		3
animals animals	birds	Tytonidae		eastern barn owl		C		3
		Tytonidae	Tyto tenebricosa multipunctata	lesser sooty owl		C		3
animals	insects	Papilionidae	Ornithoptera priamus	New Guinea birdwing				1
animals	mammals	Acrobatidae	Acrobates pygmaeus	feathertail glider	V	С		1
animals	mammals	Canidae	Canis familiaris	dog	Y			2
animals	mammals	Canidae	Canis familiaris (dingo)	dingo	Ň			10
animals	mammals	Canidae	Canis sp.		Y	~		1
animals	mammals	Dasyuridae	Antechinus flavipes rubeculus	yellow-footed antechinus (north-east Queensland)		С		4
animals	mammals	Dasyuridae	Dasyurus maculatus gracilis	spotted-tailed quoll (northern subspecies)		Е	Е	1
animals	mammals	Dasyuridae	Sminthopsis murina	common dunnart		С		3
animals	mammals	Dasyuridae	Planigale maculata	common planigale		С		6
animals	mammals	Dasyuridae	Antechinus adustus	rusty antechinus		С		1
animals	mammals	Dasyuridae	Sminthopsis sp.	,		С		1
animals	mammals	Felidae	Felis catus	cat	Y			2
animals	mammals	Leporidae	Oryctolagus cuniculus	rabbit	Ý			5
animals	mammals	Macropodidae	Notamacropus agilis	agile wallaby	-	С		7
animals	mammals	Macropodidae	Dendrolagus lumholtzi	Lumholtz's tree-kangaroo		ŇT		2
animals	mammals	Macropodidae	Macropus sp.			C		1
animals	mammals	Macropodidae	Wallabia bicolor	swamp wallaby		č		3
animals	mammals	Macropodidae	Petrogale mareeba	Mareeba rock-wallaby		č		1
animals	mammals	Macropodidae	Macropus giganteus	eastern grey kangaroo		č		28
animals	mammals	Macropodidae	Notamacropus parryi	whiptail wallaby		c		36
animals	mammals	Macropodidae	Osphranter robustus	common wallaroo		c		8
	mammals	Macropodidae	Thylogale stigmatica			c		0 7
animals				red-legged pademelon				1
animals	mammals	Miniopteridae	Miniopterus australis	little bent-wing bat		C		8
animals	mammals	Miniopteridae Muridaa	Miniopterus schreibersii oceanensis	eastern bent-wing bat		C		3
animals	mammals	Muridae	Uromys caudimaculatus	giant white-tailed rat		С		6

Kingdom	Class	Family	Scientific Name	Common Name	Ι	Q	А	Records
animals	mammals	Muridae	Pseudomys delicatulus	delicate mouse		С		2
animals	mammals	Muridae	Rattus sp.			С		5/1
animals	mammals	Muridae	Mus musculus	house mouse	Y			5
animals	mammals	Muridae	Melomys cervinipes	fawn-footed melomys		С		13
animals	mammals	Muridae	Pseudomys patrius	eastern pebble-mound mouse		С		2
animals	mammals	Muridae	Rattus lutreolus	swamp rat		С		3/1
animals	mammals	Muridae	Rattus fuscipes	bush rat		С		6
animals	mammals	Muridae	Melomys burtoni	grassland melomys		С		12
animals	mammals	Muridae	Rattus rattus	black rat	Y			2
animals	mammals	Muridae	Pogonomys sp.	tree mouse		С		1
animals	mammals	Ornithorhynchidae	Ornithorhynchus anatinus	platypus		SL		4
animals	mammals	Peramelidae	Perameles pallescens	northern long-nosed bandicoot		С		10
animals	mammals	Peramelidae	Isoodon macrourus	northern brown bandicoot		С		6
animals	mammals	Petauridae	Petaurus sp.			С		5
animals	mammals	Petauridae	Petaurus notatus	Krefft's glider		С		8
animals	mammals	Petauridae	Dactylopsila trivirgata	striped possum		С		1
animals	mammals	Petauridae	Petaurus australis unnamed subsp.	yellow-bellied glider (northern subspecies)		Е	V	1
animals	mammals	Phalangeridae	Trichosurus vulpecula	common brushtail possum		С		43
animals	mammals	Phascolarctidae	Phascolarctos cinereus	koala		V	V	1
animals	mammals	Potoroidae	Aepyprymnus rufescens	rufous bettong		С		12
animals	mammals	Pseudocheiridae	Petauroides minor	northern greater glider		V	V	28
animals	mammals	Pseudocheiridae	Hemibelideus lemuroides	lemuroid ringtail possum		С		113
animals	mammals	Pseudocheiridae	Pseudocheirus peregrinus	common ringtail possum		С		1
animals	mammals	Pseudocheiridae	Pseudochirulus herbertensis	Herbert River ringtail possum		С		46
animals	mammals	Pseudocheiridae	Pseudochirops archeri	green ringtail possum		С		21
animals	mammals	Pteropodidae	Pteropus scapulatus	little red flying-fox		С		8
animals	mammals	Pteropodidae	Nyctimene robinsoni	eastern tube-nosed bat		С		5
animals	mammals	Pteropodidae	Pteropus conspicillatus	spectacled flying-fox		Е	Е	6
animals	mammals	Rhinolophidae	Rhinolophus megaphyllus	eastern horseshoe-bat		С		1
animals	mammals	Suidae	Sus scrofa	pig	Y			6
animals	mammals	Tachyglossidae	Tachyglossus aculeatus	short-beaked echidna		SL		2
animals	mammals	Vespertilionidae	Nyctophilus bifax	northern long-eared bat		С		6
animals	mammals	Vespertilionidae	Nyctophilus gouldi	Gould's long-eared bat		С		3
animals	mammals	Vespertilionidae	Vespadelus pumilus	eastern forest bat		С		4
animals	mammals	Vespertilionidae	Murina florium	tube-nosed insectivorous bat		V		2
animals	mammals	Vespertilionidae	Chalinolobus nigrogriseus	hoary wattled bat		С		3
animals	mammals	Vespertilionidae	Nyctophilus geoffroyi	lesser long-eared bat		С		1
animals	mammals	Vespertilionidae	Myotis macropus	large-footed myotis		С		1
animals	mammals	Vespertilionidae	Kerivoula papuensis	golden-tipped bat		С		3
animals	mammals	Vespertilionidae	Scoteanax rueppellii	greater broad-nosed bat		С		5
animals	ray-finned fishes	Anguillidae	Anguilla reinhardtii	longfin eel				2
animals	ray-finned fishes		Craterocephalus stercusmuscarum	flyspecked hardyhead				1
animals	ray-finned fishes	Eleotridae	Mogurnda adspersa	southern purplespotted gudgeon				4
animals	ray-finned fishes	Eleotridae	Hypseleotris sp.					2
animals	ray-finned fishes	Plotosidae	Tandanus tropicanus					2

Kingdom	Class	Family	Scientific Name	Common Name	Ι	Q	А	Records
animals	ray-finned fishes	Poeciliidae	Gambusia holbrooki	mosquitofish	Y			1
animals	ray-finned fishes	Terapontidae	Leiopotherapon unicolor	spangled perch				2
animals	ray-finned fishes	Terapontidae	Hephaestus fuliginosus	sooty grunter				2
animals	reptiles	Agamidae	Lophosaurus boydii	Boyd's forest dragon		С		1/1
animals	reptiles	Agamidae	Diporiphora australis	tommy roundhead		С		19
animals	reptiles	Agamidae	Intellagama lesueurii	eastern water dragon		С		3
animals	reptiles	Agamidae	Pogona barbata	bearded dragon		С		1
animals	reptiles	Agamidae	Diporiphora nobbi	nobbi		С		1
animals	reptiles	Boidae	Simalia kinghorni	amethystine python (Australian form)		С		1/1
animals	reptiles	Boidae	Morelia spilota	carpet python		С		3
animals	reptiles	Carphodactylidae	Carphodactylus laevis	chameleon gecko		С		5
animals	reptiles	Carphodactylidae	Saltuarius cornutus	northern leaf-tailed gecko		С		27
animals	reptiles	Chelidae	Wollumbinia latisternum	saw-shelled turtle		С		2
animals	reptiles	Chelidae	Emydura macquarii krefftii	Krefft's river turtle		С		1
animals	reptiles	Colubridae	Dendrelaphis punctulatus	green tree snake		С		1
animals	reptiles	Colubridae	Stegonotus australis	slaty-grey snake		С		1
animals	reptiles	Colubridae	Boiga irregularis	brown tree snake		С		1
animals	reptiles	Diplodactylidae	Lucasium steindachneri	Steindachner's gecko		С		2
animals	reptiles	Diplodactylidae	Amalosia rhombifer	zig-zag gecko		C		3
animals	reptiles	Diplodactylidae	Oedura monilis sensu lato	ocellated velvet gecko		Ċ		1
animals	reptiles	Elapidae	Cacophis churchilli	northern dwarf crowned snake		С		1
animals	reptiles	Elapidae	Pseudechis porphyriacus	red-bellied black snake		Ċ		2
animals	reptiles	Elapidae	Vermicella annulata	bandy-bandy		С		1
animals	reptiles	Elapidae	Cryptophis nigrescens	eastern small-eyed snake		С		4
animals	reptiles	Gekkonidae	Gehyra dubia	dubious dtella		C		2
animals	reptiles	Pygopodidae	Lialis burtonis	Burton's legless lizard		С		1
animals	reptiles	Scincidae	Carlia rostralis	black-throated rainbow-skink		C		1
animals	reptiles	Scincidae	Morethia taeniopleura	fire-tailed skink		Ċ		9
animals	reptiles	Scincidae	Carlia jarnoldae	lined rainbow-skink		С		4
animals	reptiles	Scincidae	Carlia rubigo	orange-flanked rainbow skink		C		12
animals	reptiles	Scincidae	Cryptoblepharus pulcher pulcher	elegant snake-eyed skink		C		5
animals	reptiles	Scincidae	Lampropholis bellendenkerensis	5		С		2
animals	reptiles	Scincidae	Gnypetoscincus queenslandiae	prickly forest skink		C		1
animals	reptiles	Scincidae	Glaphyromorphus mjobergi	Atherton Tableland mulch-skink		С		1
animals	reptiles	Scincidae	Cyclodomorphus gerrardii	pink-tongued lizard		С		2
animals	reptiles	Scincidae	Cryptoblepharus virgatus	striped snake-eyed skink		Ċ		1
animals	reptiles	Scincidae	Coeranoscincus frontalis	limbless snake-tooth skink		C		1
animals	reptiles	Scincidae	Saproscincus basiliscus	basilisk shadeskink		C		17
animals	reptiles	Scincidae	Glaphyromorphus cracens	slender mulch-skink		C		1
animals	reptiles	Scincidae	Pygmaeascincus timlowi	dwarf litter-skink		Ċ		7
animals	reptiles	Scincidae	Ctenotus taeniolatus	copper-tailed skink		Č		1
animals	reptiles	Scincidae	Lygisaurus foliorum	tree-base litter-skink		č		9/2
animals	reptiles	Scincidae	Carlia rubrigularis	red-throated rainbow-skink		Č		8
animals	reptiles	Scincidae	Ctenotus strauchii	eastern barred wedgesnout ctenotus		Č		2
animals	reptiles	Scincidae	Ctenotus spaldingi	straight-browed ctenotus		č		2
animals	reptiles	Scincidae	Bellatorias frerei	major skink		Č		1
	•	-		,		-		

Kingdom	Class	Family	Scientific Name	Common Name	Ι	Q	А	Records
animals	reptiles	Scincidae	Lygisaurus laevis	rainforest edge litter-skink		С		1
animals	reptiles	Scincidae	Concinnia tigrina	yellow-blotched forest-skink		С		1
animals	reptiles	Scincidae	Eulamprus quoyii	eastern water skink		С		1
animals	reptiles	Scincidae	Carlia vivax	tussock rainbow-skink		С		1
animals	reptiles	Scincidae	Ctenotus sp.			С		1
animals	reptiles	Typhlopidae	Anilios torresianus	north-eastern blind snake		С		2
animals	reptiles	Varanidae	Varanus varius	lace monitor		С		5
animals	reptiles	Varanidae	Varanus tristis	black-tailed monitor		С		1
fungi	Agaricomycetes	Agaricaceae	Lepiota					1/1
fungi	Agaricomycetes	Agaricaceae	Macrolepiota clelandii			С		1/1
fungi	Agaricomycetes	Amanitaceae	Amanita					5/5
fungi	Agaricomycetes	Atheliaceae	Dictyonema irpicinum			С		1/1
fungi	Agaricomycetes	Boletaceae	Boletellus emodensis			С		1/1
fungi	Agaricomycetes	Boletaceae	Austroboletus					2/2
fungi	Agaricomycetes	Boletaceae	Tylopilus					2/2
fungi	Agaricomycetes	Boletaceae	Boletus					2/2
fungi	Agaricomycetes	Boletaceae	Strobilomyces					1/1
fungi	Agaricomycetes	Cantharellaceae	Cantharellus					1/1
fungi	Agaricomycetes	Clavariaceae	Clavicorona					1/1
fungi	Agaricomycetes	Cortinariaceae	Gymnopilus					4/4
fungi	Agaricomycetes	Cortinariaceae	Cortinarius					1/1
fungi	Agaricomycetes	Crepidotaceae	Crepidotus					2/2
fungi	Agaricomycetes	Entolomataceae	Entoloma					1/1
fungi	Agaricomycetes	Fomitopsidaceae	Fomitopsis					1/1
fungi	Agaricomycetes	Ganodermataceae	Amauroderma rude			С		1/1
fungi	Agaricomycetes	Ganodermataceae	Ganoderma					2/2
fungi	Agaricomycetes	Geastraceae	Geastrum			С		1/1
fungi	Agaricomycetes	Gomphaceae	Ramaria			С		1/1
fungi	Agaricomycetes	Hyaloriaceae	Pseudohydnum gelatinosum			С		1/1
fungi	Agaricomycetes	Hydnangiaceae	Laccaria					6/6
fungi	Agaricomycetes	Hygrophoraceae	Hygrocybe cantharellus			С		1/1
fungi	Agaricomycetes	Hygrophoraceae	Humidicutis mavis			С		1/1
fungi	Agaricomycetes	Hygrophoraceae	Hygrocybe					1/1
fungi	Agaricomycetes	Inocybaceae	Inocybe nobilissima			С		1/1
fungi	Agaricomycetes	Inocybaceae	Inocybe gracilissima			С		1/1
fungi	Agaricomycetes	Inocybaceae	Inocybe			С		7/7
fungi	Agaricomycetes	Mycenaceae	Xeromphalina					1/1
fungi	Agaricomycetes	Mycenaceae	Mycena					10/10
fungi	Agaricomycetes	Pleurotaceae	Hohenbuehelia			-		1/1
fungi	Agaricomycetes	Podoscyphaceae	Cymatoderma elegans			С		1/1
fungi	Agaricomycetes	Polyporaceae	Laetiporus sulphureus			С		1/1
fungi	Agaricomycetes	Polyporaceae	Microporus					1/1
fungi	Agaricomycetes	Polyporaceae	Polyporus					2/2
fungi	Agaricomycetes	Polyporaceae	Trametes					5/5
fungi	Agaricomycetes	Polyporaceae	Poria			~		1/1
fungi	Agaricomycetes	Polyporaceae	Microporus xanthopus			С		2/2

fungi fungi Agaricomycetes fungi Agaricomycetes fungi Agaricomycetes Agaricomycetes fungi Agaricomycetes Agaricomycetes Russulaceae Russulaceae Russulaceae Russulaceae Russula lenkunyaC1/1 2/2 2/2 2/2fungi fungi Agaricomycetes Russulaceae RudensC1/1fungi Agaricomycetes AgaricomycetesStrophariaceae Ruspholoma RusculareaeC1/1fungi Agaricomycetes AgaricomycetesTricholomataceae Rusculaceae Ruspholoma RusculareaeC1/1fungi Agaricomycetes Tricholomataceae Tricholomataceae CollemataceaeC1/1fungi Agaricomycetes Tricholomataceae Rus	Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
fungiAgaricomycetesPsathyrellaceaePsathyrella2/2fungiAgaricomycetesPterulaceaePterula1/1fungiAgaricomycetesRussulaceaeRussula lenkunyaC1/1fungiAgaricomycetesRussulaceaeRussula foetensC1/1fungiAgaricomycetesRussulaceaeRussula foetensC1/1fungiAgaricomycetesRussulaceaeRussula cyanoxanthaC1/1fungiAgaricomycetesSclerodermataceaeScleroderma polyrhizumC1/1fungiAgaricomycetesSclerodermataceaeScleroderma4/4fungiAgaricomycetesStereaceaeStereum ostreaC1/1fungiAgaricomycetesStereaceaeStereum ostreaC1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeCollybia1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeGunpus1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeGunpus1/1fungiAgaricomycetesTricholomataceaeCladia muelleriC2/2fungiAgaricomyc	fungi	Agaricomycetes	Psathyrellaceae	Psathyrella candolleana			С		
fungiAgaricomycetesRussulaceaeRussula lenkunyaC1/1fungiAgaricomycetesRussulaceaeRussula foetensC1/1fungiAgaricomycetesRussulaceaeRussula ceaeRussula ceaeS/5fungiAgaricomycetesRussulaceaeRussula ceaeRussula ceaeS/5fungiAgaricomycetesSclerodermataceaeScleroderma polyrhizumC1/1fungiAgaricomycetesSclerodermataceaeScleroderma4/4fungiAgaricomycetesStereaceaeStereum illudensC1/1fungiAgaricomycetesStereaceaeStereum ostreaC3/3fungiAgaricomycetesStophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeCollybia1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeGymnopus1/1fungiAgaricomycetesTricholomataceaeGymnopus1/1fungiAgaricomycetes <td></td> <td>Agaricomycetes</td> <td>Psathyrellaceae</td> <td>Psathyrella</td> <td></td> <td></td> <td></td> <td></td> <td></td>		Agaricomycetes	Psathyrellaceae	Psathyrella					
fungiAgaricomycetesRussulaceaeRussula foetensC1/1fungiAgaricomycetesRussulaceaeRussulaC5/5fungiAgaricomycetesRussulaceaeRussula cyanoxanthaC1/1fungiAgaricomycetesSclerodermataceaeSclerodermataceaeSclerodermataceae4/4fungiAgaricomycetesStereaceaeScleroderma4/4fungiAgaricomycetesStereaceaeStereum illudensC1/1fungiAgaricomycetesStereaceaeStereum ostrea1/1fungiAgaricomycetesStorphariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeC1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC2/2fungiAgaricomycetesTricholomataceaeGymopus1/1fungiAgaricomycetesTricholomataceaeCladia muelleri1/1fungilecanoromycetesCladia muelleri1/1fungi <tdlecanoromycetes< td="">CollemataceaeCladia muelleri1/1fungilecanoromycetesCollematacea</tdlecanoromycetes<>	fungi	Agaricomycetes	Pterulaceae	Pterula					
fungiAgaricomycetesRussulaceaeRussula cyanoxanthaC5/5fungiAgaricomycetesRussulaceaeRussula cyanoxanthaC1/1fungiAgaricomycetesSclerodermataceaeScleroderma polyrhizumC1/1fungiAgaricomycetesSclerodermataceaeScleroderma4/4fungiAgaricomycetesStereaceaeStereum illudensC1/1fungiAgaricomycetesStereaceaeStereum ostreaC3/3fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC1/1fungiIecanoromycetesCladiniaceaeCladia muelleri1/11/1fungilecanoromycetesCladiniaceaeCladia muelleri1/1fungilecanoromycetesCollemataceaeLeptogium cyanescens1/1fungilecanoromycetesCollemataceaeLeptogium bullatulum1/1fungilecanoromycetesCollemataceaeLept	fungi	Agaricomycetes					С		
fungiAgaricomycetesRussulaceaeRussula cyanoxanthaC1/1fungiAgaricomycetesSclerodermataceaeScleroderma polyrhizumC1/1fungiAgaricomycetesSclerodermataceaeScleroderma4/4fungiAgaricomycetesStereaceaeStereum illudensC1/1fungiAgaricomycetesStereaceaeStereum ostreaC3/3fungiAgaricomycetesStorphariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularis1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularis1/1fungiAgaricomycetesTricholomataceaeGumpularis1/1fungiAgaricomycetesTricholomataceaeGumpularis1/1fungiIcaanoromycetesCladia muelleri1/11/1fungilecanoromycetesCladia muelleri1/1fungilecanoromycetesCollemataceaeLeptogium cyanescens1/1fungilecanoromycetesCollemataceaeLeptogium bullatulum1/1fungilecanoromycetesCollemataceaeLeptogium bullatulum1/1fungilecanoromycet	fungi	Agaricomycetes	Russulaceae						
fungiAgaricomycetesSclerodermataceaeScleroderma polyrhizumC1/1fungiAgaricomycetesSclerodermataceaeScleroderma4/4fungiAgaricomycetesStereaceaeStereum illudensC1/1fungiAgaricomycetesStereaceaeStereum ostreaC3/3fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularis1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC2/2fungiAgaricomycetesCollemataceaeGymnopus1/1fungiIccanoromycetesCladiniaceaeCladia muelleri1/1fungilecanoromycetesCollemataceaeCladia muelleri1/1fungilecanoromycetesCollemataceaeCladia muelleri1/1fungilecanoromycetesCollemataceaeLeptogium bullatulumC1/1	fungi		Russulaceae						
fungiAgaricomycetesSclerodermataceaeScleroderma4/4fungiAgaricomycetesStereaceaeStereum illudensC1/1fungiAgaricomycetesStereaceaeStereum ostreaC3/3fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeTricholomataceaeC1/1fungiAgaricomycetesTricholomataceaeTricholomataceaeTricholomataceaeC1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC2/21/1fungiIccanoromycetesCladoniaceaeGymnopus1/11/1fungilecanoromycetesCollemataceaeLeptogium cyanescensC2/2fungilecanoromycetesCollemataceaeLeptogium bullatulumC1/1	fungi								
fungi fungiAgaricomycetesStereaceaeStereum illudensC1/1fungiAgaricomycetesStereaceaeStereum ostreaC3/3fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeHypholoma fasciculare1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeTricholoma eucalypticum1/1fungiAgaricomycetesTricholomataceaeTricholomataceae1/1fungiAgaricomycetesTricholomataceaeTricholomataceae1/1fungiAgaricomycetesTricholomataceaeGymnopus1/1fungilecanoromycetesCladoniaceaeCladia muelleriC2/2fungilecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungilecanoromycetesCollemataceaeLeptogium bullatulumC1/1							С		
fungi fungi fungi AgaricomycetesStereaceaeStereum ostreaC3/3fungi fungi fungi AgaricomycetesStrophariaceaeGalerina1/1fungi fungi fungi AgaricomycetesStrophariaceaeHypholoma1/1fungi fungi fungi AgaricomycetesStrophariaceaeHypholoma fasciculareC1/1fungi fungi fungi AgaricomycetesTricholomataceaeCollybia1/11/1fungi fungi fungi AgaricomycetesTricholomataceaeTricholoma eucalypticumC1/1fungi fungi fungi lecanoromycetesTricholomataceaeFiloboletus manipularisC2/2fungi fungi lecanoromycetesCaldoniaceaeCladia muelleriC2/2fungi lecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungi lecanoromycetesCollemataceaeLeptogium bullatulumC1/1		U					_		
fungiAgaricomycetesStrophariaceaeGalerina1/1fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeHypholoma fasciculareC1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeTricholoma eucalypticumC1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC2/2fungiAgaricomycetesTricholomataceaeGymnopus1/1fungilecanoromycetesCladoniaceaeCladia muelleriC2/2fungilecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungilecanoromycetesCollemataceaeLeptogium bullatulumC1/1									
fungiAgaricomycetesStrophariaceaeHypholoma1/1fungiAgaricomycetesStrophariaceaeHypholoma fasciculare1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeTricholomataceae1/1fungiAgaricomycetesTricholomataceaeTricholomataceae1/1fungiAgaricomycetesTricholomataceaeTricholomataceae1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC1/1fungilecanoromycetesTricholomataceaeGymnopus1/1fungilecanoromycetesCladoniaceaeCladia muelleriC2/2fungilecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungilecanoromycetesCollemataceaeLeptogium bullatulumC1/1							С		
fungiAgaricomycetesStrophariaceaeHypholoma fasciculareC1/1fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeTricholoma eucalypticumC1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC2/2fungiAgaricomycetesTricholomataceaeGymnopus1/1fungilecanoromycetesCladoniaceaeCladia muelleri1/1fungilecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungilecanoromycetesCollemataceaeLeptogium bullatulum1/1									
fungiAgaricomycetesTricholomataceaeCollybia1/1fungiAgaricomycetesTricholomataceaeTricholoma eucalypticumC1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC2/2fungiAgaricomycetesTricholomataceaeGymnopus1/1fungilecanoromycetesCollemataceaeCladia muelleri1/1fungilecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungilecanoromycetesCollemataceaeLeptogium bullatulumC1/1							-		
fungiAgaricomycetesTricholomataceaeTricholoma eucalypticumC1/1fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC2/2fungiAgaricomycetesTricholomataceaeGymnopus1/1fungilecanoromycetesCladoniaceaeCladia muelleriC2/2fungilecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungilecanoromycetesCollemataceaeLeptogium bullatulumC1/1							С		
fungiAgaricomycetesTricholomataceaeFiloboletus manipularisC2/2fungiAgaricomycetesTricholomataceaeGymnopus1/1fungilecanoromycetesCladoniaceaeCladia muelleri2/2fungilecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungilecanoromycetesCollemataceaeLeptogium bullatulum1/1	fungi								
fungiAgaricomycetesTricholomataceaeGymnopus1/1fungilecanoromycetesCladoniaceaeCladia muelleri2/2fungilecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungilecanoromycetesCollemataceaeLeptogium bullatulum1/1	fungi								
fungilecanoromycetesCladoniaceaeCladia muelleriC2/2fungilecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungilecanoromycetesCollemataceaeLeptogium bullatulumC1/1	fungi			Filoboletus manipularis			С		
fungilecanoromycetesCollemataceaeLeptogium cyanescensC1/1fungilecanoromycetesCollemataceaeLeptogium bullatulumC1/1	fungi	Agaricomycetes	Tricholomataceae						
fungi lecanoromycetes Collemataceae Leptogium bullatulum C 1/1	fungi			Cladia muelleri					
	fungi	lecanoromycetes	Collemataceae	Leptogium cyanescens					
fungi lecanoromycetes Lecanoraceae Lecanora sulfurescens	fungi	lecanoromycetes	Collemataceae	Leptogium bullatulum					
	fungi	lecanoromycetes	Lecanoraceae	Lecanora sulfurescens			С		1/1
fungi lecanoromycetes Lobariaceae Sticta myrioloba C 1/1	fungi	lecanoromycetes	Lobariaceae						
fungi lecanoromycetes Lobariaceae Pseudocyphellaria beccarii C 1/1	fungi	lecanoromycetes	Lobariaceae	Pseudocyphellaria beccarii					
fungi lecanoromycetes Lobariaceae Pseudocyphellaria pickeringii C 1/1	fungi	lecanoromycetes	Lobariaceae	Pseudocyphellaria pickeringii					
fungi lecanoromycetes Pannariaceae Physma byrsaeum C 1/1	fungi	lecanoromycetes	Pannariaceae	Physma byrsaeum					
fungi lecanoromycetes Parmeliaceae Usnea pectinata C 3/3	fungi	lecanoromycetes	Parmeliaceae						
fungi lecanoromycetes Parmeliaceae Usnea rubicunda C 2/2	fungi	lecanoromycetes	Parmeliaceae	Usnea rubicunda					
fungi lecanoromycetes Parmeliaceae Usnea rubrotincta C 3/3	fungi	lecanoromycetes	Parmeliaceae	Usnea rubrotincta					
fungi lecanoromycetes Parmeliaceae Usnea alboverrucata C 3/3	fungi	lecanoromycetes	Parmeliaceae	Usnea alboverrucata					
fungi lecanoromycetes Parmeliaceae Usnea bismolliuscula C 2/2	fungi	lecanoromycetes	Parmeliaceae	Usnea bismolliuscula					2/2
fungi lecanoromycetes Parmeliaceae Usnea molliuscula subsp. queenslandica C 4/4	fungi	lecanoromycetes	Parmeliaceae	Usnea molliuscula subsp. queenslandica					
fungi lecanoromycetes Parmeliaceae Usnea cornuta C 1/1	fungi	lecanoromycetes	Parmeliaceae	Usnea cornuta					
fungi lecanoromycetes Parmeliaceae Usnea baileyi C 8/8	fungi	lecanoromycetes	Parmeliaceae	Usnea baileyi					
fungi lecanoromycetes Parmeliaceae Usnea elixii C 7/7	fungi	lecanoromycetes	Parmeliaceae	Usnea elixii					
fungi lecanoromycetes Parmeliaceae Usnea effusa C 1/1	fungi	lecanoromycetes	Parmeliaceae	Usnea effusa					
fungi lecanoromycetes Parmeliaceae Usnea dasaea C 2/2	fungi	lecanoromycetes	Parmeliaceae	Usnea dasaea			С		2/2
fungi lecanoromycetes Physciaceae Rinodina moziana var. moziana C 1/1	fungi	lecanoromycetes	Physciaceae	Rinodina moziana var. moziana			С		1/1
fungi lecanoromycetes Physciaceae Heterodermia koyana C 1/1	fungi	lecanoromycetes	Physciaceae	Heterodermia koyana			С		
fungi lecanoromycetes Physciaceae Rinodina confragosula C 1/1		lecanoromycetes	Physciaceae	Rinodina confragosula			С		
fungi lecanoromycetes Ramalinaceae Physcidia australasica C 1/1	fungi	lecanoromycetes	Ramalinaceae	Physcidia australasica			С		
fungi sordariomycetes Xylariaceae Xylaria longipes C 1/1		sordariomycetes	Xylariaceae				С		
plants land plants Acanthaceae Hypoestes phyllostachya Y 1/1		land plants	Acanthaceae			Y			
plants land plants Acanthaceae Rostellularia adscendens C 1/1			Acanthaceae	Rostellularia adscendens			С		1/1
plants land plants Acanthaceae Rostellularia adscendens subsp. adscendens C 1/1			Acanthaceae	Rostellularia adscendens subsp. adscender	IS		С		1/1
plants land plants Amaryllidaceae Proiphys amboinensis C 1/1	plants	land plants	Amaryllidaceae				С		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Annonaceae	Polyalthia submontana subsp. sessiliflora			С		4/4
plants	land plants	Annonaceae	Desmos goezeanus			С		2/2
plants	land plants	Apocynaceae	Marsdenia jensenii			С		1/1
plants	land plants	Apocynaceae	Parsonsia latifolia	green-leaved silkpod		C		1/1
plants	land plants	Apocynaceae	Alyxia ruscifolia			С		1/1
plants	land plants	Apocynaceae	Alyxia orophila	mountain alyxia		C		1/1
plants	land plants	Apocynaceae	Alyxia grandis			С		1/1
plants	land plants	Apocynaceae	Vincetoxicum			~		1/1
plants	land plants	Apocynaceae	Parsonsia straminea	monkey rope		C		3/3
plants	land plants	Apocynaceae	Melodinus baccellianus			C		1/1
plants	land plants	Apocynaceae	Hoya australis subsp. tenuipes			С		1/1
plants	land plants	Apocynaceae	Parsonsia grayana			С		3/3
plants	land plants	Apocynaceae	Neisosperma poweri			ç	-	2/2
plants	land plants	Aponogetonaceae	Aponogeton bullosus			E	Е	1/1
plants	land plants	Araceae	Alocasia brisbanensis			С		1/1
plants	land plants	Araliaceae	Hydrocotyle acutiloba					1/1
plants	land plants	Araliaceae	Hydrocotyle miranda	alimbing papay				1/1
plants	land plants	Araliaceae	Cephalaralia cephalobotrys	climbing panax				1/1
plants	land plants	Araliaceae	Polyscias australiana Methorwallia baplaggiadag	ivory basswood		c		1/1 1/1
plants	land plants	Araliaceae	Motherwellia haplosciadea			c		3/3
plants	land plants	Argophyllaceae Aristolochiaceae	Argophyllum ferrugineum Pararistolochia australopithecurus			c		3/3 1/1
plants plants	land plants land plants	Anstolochiaceae	Erechtites valerianifolius forma valerianifolius		Y	C		1/1
plants	land plants	Asteraceae	Picris angustifolia subsp. carolorum-henricorum		I	С		1/1
plants	land plants	Asteraceae	Acmella grandiflora var. brachyglossa			ĉ		1/1
plants	land plants	Asteraceae	Centipeda minima subsp. minima			č		1/1
plants	land plants	Asteraceae	Crassocephalum crepidioides	thickhead	Y	0		1/1
plants	land plants	Asteraceae	Dichrocephala integrifolia	linekiread	Ý			3/3
plants	land plants	Asteraceae	Phacellothrix cladochaeta			С		1/1
plants	land plants	Asteraceae	Adenostemma macrophyllum			č		1/1
plants	land plants	Asteraceae	Eschenbachia leucantha			č		2/2
plants	land plants	Asteraceae	Erigeron bonariensis		Y	•		1/1
plants	land plants	Asteraceae	Praxelis clematidea		Ý			5/5
plants	land plants	Asteraceae	Coronidium rupicola			С		2/2
plants	land plants	Asteraceae	Chromolaena odorata	Siam weed	Y			3/3
plants	land plants	Asteraceae	Ageratum conyzoides	billygoat weed	Y			1/1
plants	land plants	Asteraceae	Euchiton japonicus	,,,		С		1/1
plants	land plants	Asteraceae	Erigeron pusillus		Y			1/1
plants	land plants	Asteraceae	Cirsium vulgare	spear thistle	Y			1/1
plants	land plants	Asteraceae	Bidens pilosa		Y			1/1
plants	land plants	Asteraceae	Stevia ovata		Y			7/7
plants	land plants	Asteraceae	Apowollastonia spilanthoides			С		2/2
plants	land plants	Athyriaceae	Diplazium dilatatum			С		1/1
plants	land plants	Austrobaileyaceae	Austrobaileya scandens			С		1/1
plants	land plants	Aytoniaceae	Plagiochasma rupestre			С		1/1
plants	land plants	Aytoniaceae	Reboulia hemisphaerica			С		1/1

plants land plants Aybniaceae Astrolla whitelogosona plants land plants Aybniaceae Balenops eutraliens plants land plants Balenopsceae Balenops eutraliens plants land plants Balenopsceae Balenops eutraliens plants land plants Bignoniaceae Pradorea nervosa plants land plants Bignoniaceae Pradoblechnum neglectum plants land plants Bignoniaceae Bignonia neglectum plants land plants Bignoniaceae Bignonia subgr. queenslandicum plants land plants Buehnaceae Convinn australaskum mango bark GC 11/1 plants land plants Buehnaceae Convinn australaskum mango bark GC 11/1 plants land plants Burstaceae Convinn australaskum mango bark GC 313 plants land plants Burstaceae Convinn australaskum mango bark GC 11/1 plants land plants Burstaceae Convinn australaskum mango bark GC 11/1 plants land plants Burstaceae Convinn australaskum mango bark GC 11/1 plants land plants Caesapiniaceae Seringa honcolai Seringa ho	Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants land plants Aytoniaceae Asterolla drummondii . C 1/1 plants land plants Balanopaceae Balanopa sustraliana C C 5/5 plants land plants Balanopaceae Impatens walleriana balsam Y C 1/1 plants land plants Balanopaceae Impatens walleriana balsam Y C 1/11 plants land plants Balanopaceae Dicichandra unguis-cali c carls claw creepor Y I 1/1 plants land plants Berchnaceae Develocitanum reglectum C C 1/11 plants land plants Belchnaceae Boryas septentionalis subg. queenslandicum mage bark Belchnaceae Boryas septentionalis subg. queenslandicum mage bark Belchnaceae Boryas septentionalis subg. queenslandicum Mage Belchaceae Boryas septentionalis subg. queenslandicum Mage Belchaceae Boryas septentionalis subg. queenslandicum Belchaceae Boryas septentionalis com Boryaseae Boryas septentionalis com Boryaseae Boryas septentionalis com Boryaseae Belchaceae Boryas septentionalis C C 1/11 plants land plants Byttheriaceae Seringia hookeriana C C 1/11 plants land plants Byttheriaceae Commersonia dasphylla C C 1/11 plants land plants Byttheriaceae Commersonia dasphylla Border C 1/12 plants land plants Byttheriaceae Commersonia dasphylla Border C 1/12 plants land plants Caesasphinicaeae Commersonia dasphylla Border C 1/12 plants land plants Caesasphinicaeae Commersonia dasphylla Border C 1/12 plants land plants Caesasphinicaeae Commersonia dasphylla Border C 1/12 plants land plants Caesasphinicaeae Commersonia dasphylla Border C 1/12 plants land plants Caesasphinicaeae Commersonia dasphylla Border C 1/12 plants land plants Caesasphinicaeae Commersonia Borghylla Border C 1/12 plants land plants Caesasphini	plants	land plants	Aytoniaceae	Asterella whiteleggeana			С		1/1
plants land plants Balsaminaceae Y 2/2 plants land plants Bignoniaceae Pandro nervosa C 1/1 plants land plants Bignoniaceae Pandro nervosa C 1/1 plants land plants Bignoniaceae Podola linearis c.3's claw creeper Y 1/1 plants land plants Biechnaceae Dodola linearis subclassion C 1/1 plants land plants Biechnaceae Bordinum patersonis subsp. queenslandicum mango bark C 1/1 plants land plants Bytneriaceae Samgla incolaina mango bark C 1/1 plants land plants Bytneriaceae Samgla incolaina C 1/1 plants land plants Bytneriaceae Samgla incolaina Y 1/1 plants land plants Band plants Caesalpiniaceae Commando plants 1/1 plants land plants Caesalpiniaceae Samgla incocaina Aystralian senna	plants	land plants	Aytoniaceae						
plants Bignoniaceae Piardorea nervosa C 1/1 plants Iand plants Bignoniaceae Dolkfondrahr unguis-cati cat's claw creeper Y 1/1 plants Iand plants Biechnaceae Pierköbbechnum negischum C 1/1 plants Iand plants Biechnaceae Biechnuzeae C 1/1 plants Iand plants Biechnaceae Biechnuzeae C 1/1 plants Iand plants Biechnaceae Bignoniaceae C 1/1 plants Iand plants Bignoniaceae Bignoniaceae C 1/1 plants Iand plants Bignoniaceae Bignoniaceae Seringia hockeriana C 1/1 plants Iand plants Bignoniaceae Seringia hockeriana C 1/1 plants Iand plants Bignoniaceae Seringia hockeriana C 1/1 plants Iand plants Seringia hockeriana C 1/1 1/1 plants Iand plants <td< td=""><td>plants</td><td>land plants</td><td>Balanopaceae</td><td>Balanops australiana</td><td></td><td></td><td>С</td><td></td><td></td></td<>	plants	land plants	Balanopaceae	Balanops australiana			С		
plants Bain plants Bignoniaceae Polichandra unguis-cati cat's claw creeper Y 1/1 plants Iand plants Bichnaceae Polichandra unguis-cati C 1/1 plants Iand plants Bichnaceae Doodia linearis C 1/1 plants Bind plants Bichnaceae Bichnaceae Doodia linearis C 1/1 plants Iand plants Bord plants Bord plants Bord plants C 1/1 plants Iand plants Bord plants Bord plants Bord plants C 1/1 plants Iand plants Bytineriaceae Seringia hookariana C 1/1 plants Iand plants Bytineriaceae Seringia hookariana Y 3/3 plants Iand plants Bytineriaceae Commonitoriana Y 3/3 plants Iand plants Cassalpiniaceae Cassalpiniaceae Seringia hookariana Y 3/3 plants Iand plants Cassalpiniaceae Seringia hookar	plants	land plants	Balsaminaceae	Impatiens walleriana	balsam	Y			
plants land plants Biechnaceae Pieridoblechnum neglectum neglectum C 1/1 plants land plants Biechnaceae Docoli linearis plants land plants Biechnaceae Docoli linearis plants land plants Biechnaceae Biorya septentrionalis plants land plants Buersaceae Corarium australasicum mango bark C 3/3 plants land plants Bursaceae Boyla septentrionalis plants land plants Bursaceae Boyla septentrionalis plants land plants Bursaceae Boyla septentrionalis plants land plants Bursaceae Seringia hockeriana plants land plants Byttheriaceae Seringia hockeriana plants land plants Caesalpiniaceae Seringia hockeriana plants land plants Caesalpiniaceae Commersonia dasynyh/la plants land plants Caesalpiniaceae Seringia conturifiolia var. rotundifolia var. rotundifolia plants land plants Caesalpiniaceae Caesalpinia rotundifolia var. rotundifolia var. rotundifolia var. plants land plants Caesalpiniaceae Wahlenbergia plants land plants Caesalpiniaceae Wahlenbergia plants land plants Caesalpiniaceae Wahlenbergia plants land plants Campanulaceae Wahlenbergia plants land plants Campanulaceae Wahlenbergia plants land plants Cantapanulaceae Centrolepis exerta plants land plants Cantapanulaceae Biphondon mombranaceus plants land plants Cantapanulaceae Garcinia plants land plants Controlepidaceae Centrolepis exerta plants land plants Controlepidaceae Centrolepis exerta plants land plants Controlepidaceae Garcinia plants land plants Controlepidaceae Centrolepis exerta plants land	plants	land plants	Bignoniaceae				С		
plants Bard plants Blechnaceae Doodia linearis C 1/1 plants Iand plants Buchnaceae Blechnaceae Bits C 1/1 plants Iand plants Burgraceae Borgs septentrionalis dusp. queensland/cum mango bark C 1/1 plants Iand plants Bytheriaceae G 1/1 plants Iand plants Bytheriaceae Seringia hockeriana C 1/1 plants Iand plants Bytheriaceae Seringia hockeriana C 1/1 plants Iand plants Bytheriaceae Seringia hockeriana Y 3/3 plants Iand plants Caesalpiniaceae Seringia hockeriana Y 1/1 plants Iand plants Caesalpiniaceae Seringia hockeriana Y 1/1 plants Iand plants Caesalpiniaceae Seringia hockeriana Y 1/1 plants Iand plants Caesalpiniaceae Seringia hockeriana 1/1 plants Iand plants	plants	land plants	Bignoniaceae	Dolichandra unguis-cati	cat's claw creeper	Y			
plants land plants Blechnaceae Blechnum patersonii subsp. queenslandicum C 1/1 plants land plants Boryaceae Boryaceae Boryaceae Boryaceae G 1/1 plants land plants Burgespace Boryaceae Boryaceae G 1/1 plants land plants Burgespace Boryaceae G 1/1 plants land plants Byttneriaceae Seringia lancedalar C 1/1 plants land plants Burgespace Seringia lancedalar Y 1/1 plants land plants Caesapioniaceae Commersonia desynphylle Y 1/1 plants land plants Caesapioniaceae Caesapionia robusta glant mother-in-law vine C 1/1 plants land plants Caesapionia robusta glant mother-in-law vine C 1/1 plants land plants Caesapionia robusta glant mother-in-law vine C 1/1 plants land plants Caesapionia robusta kn	plants	land plants		Pteridoblechnum neglectum					
plantsIand plantsBoryaccaeBorya septentionalisC11plantsIand plantsBuryaraceaeCantium australasicummango barkC3/3plantsIand plantsBythenicaceaSettingia hookerianaC1/1plantsIand plantsBythenicaceaSettingia hookerianaC1/1plantsIand plantsBythenicaceaSettingia hookerianaC1/1plantsIand plantsBythenicaceaSettingia hookerianaC1/1plantsIand plantsCaesalpiniaceaeSettina septentrionalisY3/3plantsIand plantsCaesalpiniaceaeSettina septentrionalisY1/1plantsIand plantsCaesalpiniaceaeSettina septinia1/11/1plantsIand plantsCaesalpiniaceaeSettina septinia1/11/1plantsIand plantsCaesalpiniaceaeSettina septinia1/11/1plantsIand plantsCaesalpiniaceaeWahienbergiaC1/1plantsIand plantsCelastraceaeSiphondon membranecusC1/1plantsIand plantsCelastraceaeSiphondon membranecusC1/1plantsIand plantsCelastraceaeSichinodon membranecusC1/1plantsIand plantsCelastraceaeSichinodon membranecusC1/1plantsIand plantsCommelinaceaeAritolesi subsp. polyosmoidesC1/1plantsI									
plantsland plantsBurseraceaeCanarium australasicummango barkC3/3plantsland plantsByblidicaeaeByblis liniforaC1/1plantsland plantsByttneriaceaeSeringia hocoberianaC3/3plantsland plantsByttneriaceaeSeringia hocoberianaC3/3plantsland plantsByttneriaceaeSeringia hocoberianaC3/3plantsland plantsCaesalpiniaceaeSeringia hocoberianaY3/3plantsland plantsCaesalpiniaceaeCaesalpiniaceaeSerina aciphylaAustralian sennaC1/1plantsland plantsCaesalpiniaceaeKana aciphylaAustralian sennaC1/1plantsland plantsCaesalpiniaceaeKana aciphylaAustralian sennaC1/1plantsland plantsCaesalpiniaceaeKana aciphylaKnotvineC1/1plantsland plantsCampanulaceaeWahlenbergia caryophyloidesC1/1plantsland plantsCelastraceaeSiphorodon membranaceusC1/1plantsland plantsCentrolepidaceaeCertrolepis banksiiC1/1plantsland plantsCentrolepidaceaeCertrolepis banksiiC1/1plantsland plantsCentrolepidaceaeCertrolepis banksiiC1/1plantsland plantsCentrolepidaceaeCertrolepis banksiiC1/1plantsland plants </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
plants and plants Byblic Buildaceae Eyblic Buildaceae Eyblic Buildaceae Seringia hockeriana C 1/1 plants Iand plants Byttneriaceae Seringia lanceolata C 3/3 plants Iand plants Byttneriaceae Seringia lanceolata C 3/3 plants Iand plants Caesalpiniaceae Serina septemtrionalis Y 3/3 plants Iand plants Caesalpiniaceae Serina septemtrionalis Y 3/3 plants Iand plants Caesalpiniaceae Serina septemtrionalis Y 1/1 plants Iand plants Caesalpiniaceae Caesalpiniaceae C 1/1 plants Iand plants Caesalpiniaceae Siphorotdon membranaceus C			Boryaceae						
plants and plants Byttneriaceae Seiringia Incocleriana C 1/1 plants land plants Byttneriaceae Commerscolata C 1/1 plants land plants Caesalpiniaceae Seiringia Incocleata Y 3/3 plants land plants Caesalpiniaceae Seirina actiphylla Y 1/1 plants land plants Caesalpiniaceae Seirina actiphylla Australian senna C 1/1 plants land plants Caesalpiniaceae Caesalpiniaceae Caesalpinia Quantaceae Wahienbergia 1/1 plants land plants Caesalpiniaceae Wahienbergia C 1/1 plants land plants Caesalpiniaceae Seinondon membranaceus C 1/1 plants land plants Calstraceae Siphondon membranaceus C 1/1 plants land plants Celastraceae Siphondon membranaceus C 1/1 plants land plants Celastraceae Garcinia itchii C 1/1 plants land plants Colchicaceae <					mango bark				
plants land plants Byttheriaceae Seringia lanceolata C 3/3 plants land plants Syttheriaceae Serina desynhylla C 1/1 plants land plants Caesalpiniaceae Serina septemtrionalis Y 3/3 plants land plants Caesalpiniaceae Serina septemtrionalis Y 1/1 plants land plants Caesalpiniaceae Wahlenbergia C 1/11 plants land plants Cellistraceae Siphonodon membranaceus C 1/11 plants land plants Cellistraceae Siphonodon membranaceus C 1/11 plants land plants Centrolepis barksii C 2/22 plants land plants									
plants land plants Byttheriaceae Commersonia dasyphylla C 1/1 plants land plants Caesalpiniaceae Senna septemitronalis Y 1/1 plants land plants Caesalpiniaceae Senna septemitronalis Y 1/1 plants land plants Caesalpiniaceae Caesalpinia robusta glant mother-in-law vine C 1/1 plants land plants Caesalpiniaceae Vahlenbergia caryophylloides Knotvine C 1/1 plants land plants Caesalpiniaceae Caertolepis banksi C 1/1 plants land plants Celastraceae Siphonodon membranaceus C 1/1 plants land plants Centrolepis banksii C 1/1 1/1									
plants land plants Caesalpiniaceae Serna septemtiróñils Y 11 plants land plants Caesalpiniaceae Serna aciphylla Australian senna C 1/1 plants land plants Caesalpiniaceae Serna aciphylla Australian senna C 1/1 plants land plants Caesalpiniaceae Caesalpiniaceae Caesalpiniaceae 1/1 plants land plants Caesalpiniaceae Caesalpiniaceae 1/1 plants land plants Campanulaceae Wahlenbergia caryophylloides C 1/1 plants land plants Celastraceae Stphonodon membranaceus C 1/1 plants land plants Celastraceae Stphonodon membranaceus C 1/1 plants land plants Celastraceae Stphonodon membranaceus C 1/1 plants land plants Celastraceae Garcinia zichi C 1/1 plants land plants Celastraceae Garcinin zichi 1/1 <td< td=""><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			-						
plants land plants Caesalpiniaceae Chamaecrista rotundifolia var. rotundifolia Y 1/1 plants land plants Caesalpiniaceae Senna aciphylla Australian senna C 1/1 plants land plants Caesalpiniaceae Wahlenbergia 1/1 2/2 2/2 plants land plants Caesalpiniaceae Wahlenbergia caryophylloides C 1/1 plants land plants Celastraceae Hippocratea barbata knotvine C 1/1 plants land plants Celastraceae Siphondon membranaceus C 1/1 plants land plants Centrolepidaceae Centrolepidaceae Centrolepidaceae Centrolepidaceae C 1/1 plants land plants Clusiaceae Garcinia zichii C 1/1 plants land plants Colusiaceae Garcinia zichii C 2/2 plants land plants Commelinaceae Achelmamera multifora C 2/2 plants land plants Commelinaceae Aleiferia 2/2 1/1 plants							С		
plantsland plantsCaesalpiniaceaeSenna aciphyllaAustralian sennaC1/1plantsland plantsCaesalpiniaceaeCaesalpinia robustagiant mother-in-law vineC2/2plantsland plantsCampanulaceaeWahlenbergiagiant mother-in-law vineC1/1plantsland plantsCampanulaceaeWahlenbergiajiantC1/1plantsland plantsCelastraceaeSiphonodon membranaceusC1/1plantsland plantsCelastraceaeSiphonodon membranaceusC1/1plantsland plantsCentrolepidaceaeCentrolepis exsertaC1/1plantsland plantsCentrolepidaceaeCentrolepis banksiiC1/1plantsland plantsClusiaceaeGarcinia1/11/1plantsland plantsClusiaceaeSchelhammera multifloraC2/2plantsland plantsColchicaceaeSchelhammera multifloraC2/2plantsland plantsCormelinaceaePolia crispatapoliaC1/1plantsland plantsCormaceaeAngium polyosmoides subsp. polyosmoidesC1/1plantsland plantsCuroniaceaePuliea stutzeripalaterC1/1plantsland plantsCuroniaceaePuliea stutzerihard alderC1/1plantsland plantsCuroniaceaePuliea stutzerihard alderC1/1plantslan									
plantsland plantsCaesalpinia cocaeaCaesalpinia robustaglant mother-in-law vineC2/2plantsland plantsCampanulaceaeWahlenbergia1/1plantsland plantsCampanulaceaeWahlenbergia caryophylloidesC1/1plantsland plantsCelastraceaeHippocratea barbataknotvineC1/1plantsland plantsCelastraceaeHippocratea barbataknotvineC1/1plantsland plantsCelastraceaeCentrolepis exsertaC1/1plantsland plantsCentrolepidaceaeCentrolepis exsertaC1/1plantsland plantsClusiaceaeGarcinia zichiiC9/9plantsland plantsClusiaceaeGarcinia zichii-1/1plantsland plantsColnelinaceaeCartonema brachyantherumC2/2plantsland plantsCommelinaceaeCartonema brachyantherumC2/2plantsland plantsCommelinaceaeAneilemapoliaC1/1plantsland plantsCommelinaceaeAneilemapoliasC1/1plantsland plantsCommelinaceaeAneilemapoliasC1/1plantsland plantsCommelinaceaeAneilemaplantsC1/1plantsland plantsCommelinaceaeAneilemaplantsC1/1plantsland plantsCuoniaceaeDavidsonia pruriensC1/1						Y			
plantsland plantsCampanulaceaeWahlenbergia Wahlenbergia caryophylloidesC1/1plantsland plantsCampanulaceaeWahlenbergia caryophylloidesC1/1plantsland plantsCelastraceaeSiphonodon membranaceusC3/3plantsland plantsCelastraceaeSiphonodon membranaceusC1/1plantsland plantsCentrolepidaceaeCentrolepis exsertaC1/1plantsland plantsCentrolepidaceaeCentrolepis exsertaC1/1plantsland plantsClusiaceaeGarcinia zichiiC1/1plantsland plantsClusiaceaeGarcinia zichii1/11/1plantsland plantsColiciaceaeSchelhammera multifloraC2/2plantsland plantsCommelinaceaeCarlonem brachyantherumC1/1plantsland plantsCommelinaceaeAneilemanol1/1plantsland plantsCommelinaceaeAleifum polyosmoides subsp. polyosmoidesC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCunoniaceaeAleifum polyosmoides subsp. polyosmoidesC1/1plantsland plantsCunoniaceaeAleifum polyosmoides subsp. polyosmoidesC1/1plantsland plantsCunoniaceaeCyathea baileyanawig tree fernC1/1plants <tdland plants<="" td="">CyatheaceaeCyathea ce</tdland>									
plantsland plantsCampanulaceaeWahlenbergia caryophylloidesC1/1plantsland plantsCelastraceaeHippocratea barbataknotvineC1/1plantsland plantsCelastraceaeSiphonodon membranaceusC3/3plantsland plantsCentrolepidaceaeCentrolepis exsertaC1/1plantsland plantsCentrolepidaceaeCentrolepis banksiiC1/1plantsland plantsClusiaceaeGarcinia zichiiC9/9plantsland plantsClusiaceaeGarcinia zichii1/1plantsland plantsClusiaceaeGarcinia zichii1/1plantsland plantsClusiaceaeGarcinia zichii1/1plantsland plantsCommelinaceaeSchelhammera multifloraC2/2plantsland plantsCommelinaceaeAneliema1/1plantsland plantsCornaceaeAlaigium polyosmoides subsp. polyosmoidesC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plants <tdland plants<="" td="">CucurbitaceaeCyatheaceaeCyatheaceae1/1plants<tdland plants<="" td="">CucurbitaceaeCyatheaceaeCyatheaceae1/1plants<tdland plants<="" td="">CucurbitaceaeCyatheaceae1/11/1plants<tdland plants<="" td="">CucurbitaceaeCyatheaceae1/11/1plants<tdland plants<="" td="">CyatheaceaeCyatheaceaeCyatheaceae<t< td=""><td>plants</td><td></td><td>Caesalpiniaceae</td><td></td><td>giant mother-in-law vine</td><td></td><td>С</td><td></td><td></td></t<></tdland></tdland></tdland></tdland></tdland>	plants		Caesalpiniaceae		giant mother-in-law vine		С		
plantsland plantsCelastraceaeHippocrate barbátaknotvineC1/1plantsland plantsCentrolepis caceaeSiphonodon membranaceusC3/3plantsland plantsCentrolepidaceaeCentrolepis exsertaC1/1plantsland plantsCentrolepidaceaeCentrolepis banksiiC1/1plantsland plantsClusiaceaeGarcinia zichiiC9/9plantsland plantsClusiaceaeGarcinia zichiiC2/2plantsland plantsColchicaceaeSchelhammera multifloraC2/2plantsland plantsConmelinaceaeCannema brachyantherumC2/2plantsland plantsCormaceaePollia crispatapolliaC1/1plantsland plantsCornaceaeAneilema1/11/1plantsland plantsCornaceaeAneilema1/11/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCuonniaceaePullea stutzerihard alderC1/1plants <tdland plants<="" td="">CyatheaceaeCyatheaceae2/21/1plants<tdland plants<="" td="">CyatheaceaeCyatheaceae2/21/1plants<tdland plants<="" td="">CuonniaceaePullea stutzerihard alderC1/1plants<tdland plants<="" td="">Cyatheaceae<</tdland></tdland></tdland></tdland>	plants	land plants		Wahlenbergia					
plantsland plantsCelastraceaeSiphonodon membranaceusC3/3plantsland plantsCentrolepidaceaeCentrolepis exsertaC1/1plantsland plantsCentrolepidaceaeCentrolepis banksiiC1/1plantsland plantsClusiaceaeGarcinia zichiiC9/9plantsland plantsClusiaceaeGarcinia zichiiC2/2plantsland plantsColchicaceaeSchelhammera multifloraC2/2plantsland plantsCommelinaceaeCartonema brachyantherumC2/2plantsland plantsCommelinaceaeAneileman/1plantsland plantsCommelinaceaeAneileman/1plantsland plantsCornaceaeAlaeimapolliaC1/1plantsland plantsCornaceaeAlaeiman/11/1plantsland plantsCornaceaeAlaeiman/11/1plantsland plantsCurubitaceaeTrichosanthes pilosaC1/1plantsland plantsCurubitaceaeTrichosanthes pilosaC1/1plantsland plantsCurubitaceaeCydthea baleyanawig tree fernC1/1plants <tdland plants<="" td="">CydtheaceaeCydthea ceaeWidhea tree fernC1/1plants<tdland plants<="" td="">CydtheaceaeCydthea ceaeWidhea tree fernC1/1plants<tdland plants<="" td="">CyperaceaeCyheaceaeMachaer</tdland></tdland></tdland>	plants	land plants	Campanulaceae						
plantsland plantsCentrolepidaceaeCentrolepis exsertaC1/1plantsland plantsCentrolepis banksiiC99plantsland plantsClusiaceaeGarcinia zichiiC99plantsland plantsClusiaceaeGarcinia zichii1/1plantsland plantsColchicaceaeGarcinia1/1plantsland plantsColchicaceaeGarcinia1/1plantsland plantsColchicaceaeSchelhammera multifloraC2/2plantsland plantsCommelinaceaeCartonema brachyantherumC1/1plantsland plantsCommelinaceaeAneilema1/1plantsland plantsComaceaeAlagium polyosmoides subsp. polyosmoidesC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCunoniaceaeDai/dsonia pruriensC1/1plantsland plantsCyatheaceaeCyathea suizeriahard alderC1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plants<	plants		Celastraceae		knotvine				
plantsland plantsCentrolepidaceaeCentrolepidaceaeCentrolepidaceaeC1/1plantsland plantsClusiaceaeGarcinia zichii11plantsland plantsClusiaceaeGarcinia zichii11plantsland plantsColchicaceaeSchelhammera multifloraC2/2plantsland plantsCommelinaceaeSchelhammera multifloraC2/2plantsland plantsCommelinaceaeConmelinaceaeC1/1plantsland plantsCommelinaceaePollia crispatapolliaC1/1plantsland plantsCornaceaeAneilema1/11/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCucurbitaceaeDavidsonia pruriensC1/1plantsland plantsCuunoniaceaePullea stutzerihard alderC1/1plantsland plantsCyatheaceaeCyathea rebeccaeblack tree fernC2/2plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchenus metorusC1/1plantsland plantsCyperaceaeSchenus metorusC1/1plantsland plantsCyperaceaeCyath	plants	land plants	Celastraceae						
plantsland plantsClusiaceaeGarcinia zichiiC9/9plantsland plantsClusiaceaeGarcinia1/1plantsland plantsColchicaceaeSchelhammera multiflora1/1plantsland plantsCommelinaceaeCartonema brachyantherumC2/2plantsland plantsCommelinaceaePolia crispatapoliaC1/1plantsland plantsCommelinaceaeAneilema1/1plantsland plantsComaceaeAlarigium polyosmoides subsp. polyosmoidesC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCunoniaceaePullea stutzerihard alderC3/3plantsland plantsCyatheaceaeCyatheaceaeviatree fernC2/2plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plants <tdland plants<="" td="">CyperaceaeFimbristylis</tdland>	plants	land plants	Centrolepidaceae						
plantsland plantsClusiaceaeGarcinia1/1plantsland plantsColchicaceaeSchelhammera multifloraC2/2plantsland plantsCommelinaceaeCartonema brachyantherumC2/2plantsland plantsCommelinaceaePolia crispatapolliaC1/1plantsland plantsCommelinaceaeAneilema1/11/1plantsland plantsCornaceaeAlargium polyosmoides subsp. polyosmoidesC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCucurbitaceaeDavidsonia pruriensC1/1plantsland plantsCunoniaceaePullea stutzerihard alderC3/3plantsland plantsCyatheaceaeCyathea baileyanawig tree fernC1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyperaceaeGrathearina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plants<	plants	land plants	Centrolepidaceae	Centrolepis banksii					
plantsland plantsColchicaceaeSchelhammera multifloraC2/2plantsland plantsCommelinaceaeCartonema brachyantherumC2/2plantsland plantsCommelinaceaePollia crispatapolliaC1/1plantsland plantsCommelinaceaeAneilema1/1plantsland plantsCommelinaceaeAneilema1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCucurbitaceaeDavidsonia pruriensC1/1plantsland plantsCuonniaceaePullea stutzerihard alderC3/3plantsland plantsCyatheaceaeCyathea celebicaVig tree fernC1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceae<		land plants	Clusiaceae				С		
plantsland plantsCommelinaceaeCartonema brachyantherumC2/2plantsland plantsCommelinaceaePollia crispatapolliaC1/1plantsland plantsCommelinaceaeAneilema1/1plantsland plantsConnaceaeAlargium polyosmoides subsp. polyosmoidesC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCucurbitaceaeDavidsonia pruriensC1/1plantsland plantsCunoniaceaeDavidsonia pruriensC1/1plantsland plantsCyatheaceaeCyathea baileyanawig tree fernC1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeFimbristylis cinuarmoertorumC2/2plantsland plantsCyperaceaeFimbristylis cinuarmoertorumC1/1plantsland plantsCyperaceaeFimbristylis cinuarmoertorumC1/1plantsland plantsCyperaceaeFimbristylis cinuarmoertorumC2/2plantsland plantsCyperaceaeFimbristylis cinuarmoertorumC1/1plants	plants	land plants	Clusiaceae						
plantsland plantsCommelinaceaePollia crispatapolliaC1/1plantsland plantsCommelinaceaeAneilema1/1plantsland plantsCornaceaeAlargium polyosmoides subsp. polyosmoidesC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCunoniaceaeDavidsonia pruriensC1/1plantsland plantsCyatheaceaeCyatheaceaeCyatheaceae3/3plantsland plantsCyatheaceaeCyatheaceaeCyatheaceae1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCype	plants	land plants	Colchicaceae	Schelhammera multiflora					
plantsland plantsCommelinaceaeAneilema1/1plantsland plantsCornaceaeAlangium polyosmoides subsp. polyosmoidesC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCunoniaceaeDavidsonia pruriensC1/1plantsland plantsCunoniaceaePullea stutzerihard alderC3/3plantsland plantsCyatheaceaeCyathea baileyanawig tree fernC1/1plantsland plantsCyatheaceaeCyathea celebicablack tree fernC2/2plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea woollsianaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC	plants	land plants	Commelinaceae	Cartonema brachyantherum					
plantsland plantsCornaceaeAlangium polyosmoides subsp. polyosmoidesC1/1plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCunoniaceaeDavidsonia pruriensC1/1plantsland plantsCunoniaceaeDavidsonia pruriensC3/3plantsland plantsCyatheaceaeCyathea stutzerihard alderC3/3plantsland plantsCyatheaceaeCyathea baileyanawig tree fernC1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/	plants	land plants	Commelinaceae	Pollia crispata	pollia		С		
plantsland plantsCucurbitaceaeTrichosanthes pilosaC1/1plantsland plantsCunoniaceaeDavidsonia pruriensC1/1plantsland plantsCunoniaceaePullea stutzerihard alderC3/3plantsland plantsCyatheaceaeCyathea baileyanawig tree fernC1/1plantsland plantsCyatheaceaeCyathea baileyanawig tree fernC2/2plantsland plantsCyatheaceaeCyathea rebeccaeblack tree fernC2/2plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyperaceaeCathea woollsianaC1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeFimbristylis cicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants	land plants	Commelinaceae	Aneilema					
plantsland plantsCunoniaceaeDavidsonia pruriensC1/1plantsland plantsCunoniaceaePullea stutzerihard alderC3/3plantsland plantsCyatheaceaeCyathea baileyanawig tree fernC1/1plantsland plantsCyatheaceaeCyathea rebeccaeblack tree fernC2/2plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea celebicaC1/1plantsland plantsCyatheaceaeCyathea celebicaC1/1plantsland plantsCyperaceaeCyathea celebicaC1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants	land plants	Cornaceae	Alangium polyosmoides subsp. polyosmoides					
plantsland plantsCunoniaceaePullea stutzerihard alderC3/3plantsland plantsCyatheaceaeCyathea baileyanawig tree fernC1/1plantsland plantsCyatheaceaeCyathea rebeccaeblack tree fernC2/2plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea celebicaC1/1plantsland plantsCyperaceaeCyathea woollsianaC1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC2/2plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants	land plants	Cucurbitaceae	Trichosanthes pilosa					
plantsland plantsCyatheaceaeCyathea baileyanawig tree fernC1/1plantsland plantsCyatheaceaeCyathea rebeccaeblack tree fernC2/2plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea woollsianaC1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants	land plants	Cunoniaceae	Davidsonia pruriens			С		
plantsland plantsCyatheaceaeCyathea rebeccaeblack tree fernC2/2plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea woollsianaC1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC2/2plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants	land plants	Cunoniaceae	Pullea stutzeri	hard alder		С		3/3
plantsland plantsCyatheaceaeCyathea celebicaNT1/1plantsland plantsCyatheaceaeCyathea woollsianaC1/1plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC2/2plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoides1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyos1/1	plants	land plants	Cyatheaceae	Cyathea baileyana	wig tree fern		С		
plantsland plantsCyatheaceaeCyathea woollsiana1/1plantsland plantsCyperaceaeMachaerina rubiginosa1/1plantsland plantsCyperaceaeSchoenus melanostachysC2/2plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants		Cyatheaceae	Cyathea rebeccae	black tree fern				2/2
plantsland plantsCyperaceaeMachaerina rubiginosaC1/1plantsland plantsCyperaceaeSchoenus melanostachysC2/2plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants	land plants	Cyatheaceae	Cyathea celebica			NT		1/1
plantsland plantsCyperaceaeSchoenus melanostachysC2/2plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants	land plants	Cyatheaceae	Cyathea woollsiana					
plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants	land plants		Machaerina rubiginosa			С		
plantsland plantsCyperaceaeFimbristylis acicularisC1/1plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants	land plants	Cyperaceae						
plantsland plantsCyperaceaeFimbristylis cinnamometorumC1/1plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants								
plantsland plantsCyperaceaeCyperus haspan subsp. juncoidesC1/1plantsland plantsCyperaceaeCyperus polystachyos var. polystachyosC1/1	plants	land plants					С		
plants land plants Cyperaceae Cyperus polystachyos var. polystachyos C 1/1	plants	land plants		Cyperus haspan subsp. juncoides					1/1
		land plants		Cyperus polystachyos var. polystachyos					1/1
	plants	land plants	Cyperaceae	Cyperus laevis			С		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Cyperaceae	Carex maculata			С		1/1
plants	land plants	Cyperaceae	Rhynchospora brownii	beak rush		С		1/1
plants	land plants	Cyperaceae	Lepironia articulata			С		1/1
plants	land plants	Cyperaceae	Cyperus tetraphyllus			С		1/1
plants	land plants	Cyperaceae	Chorizandra cymbaria			С		1/1
plants	land plants	Cyperaceae	Tetraria capillaris			C C		1/1
plants	land plants	Cyperaceae	Scleria sphacelata			c		1/1 2/2
plants	land plants	Cyperaceae	Fimbristylis furva			c		2/2 1/1
plants	land plants land plants	Cyperaceae	Cyperus cyperoides Schoenus sparteus			c		1/1
plants plants	land plants	Cyperaceae Cyperaceae	Rhynchospora leae			c		1/1
plants	land plants	Cyperaceae	Schoenus kennyi			c		1/1
plants	land plants	Cyperaceae	Cyperus procerus			c		1/1
plants	land plants	Cyperaceae	Cyperus proterus	dwarf papyrus	Y	U		1/1
plants	land plants	Dennstaedtiaceae	Hypolepis glandulifera	sticky ground fern		С		1/1
plants	land plants	Dennstaedtiaceae	Microlepia speluncae	cave fern		č		1/1
plants	land plants	Dichapetalaceae	Dichapetalum papuanum	cave terri		č		2/2
plants	land plants	Dicksoniaceae	Calochlaena villosa			NT		1/1
plants	land plants	Dilleniaceae	Hibbertia aspera subsp. pilosifolia			C		1/1
plants	land plants	Dilleniaceae	Hibbertia bicarpellata			č		2/2
plants	land plants	Dipentodontaceae	Perrottetia arborescens			č		1/1
plants	land plants	Droseraceae	Drosera lanata			č		1/1
plants	land plants	Droseraceae	Drosera lunata			č		1/1
plants	land plants	Dryopteridaceae	Lastreopsis wurunuran			Č		1/1
plants	land plants	Dryopteridaceae	Bolbitis taylorii			Č		1/1
plants	land plants	Dryopteridaceae	Lastreopsis rufescens			Ċ		2/2
plants	land plants	Ebenaceae	Diospyros hemicycloides			Ċ		3/3
plants	land plants	Elaeagnaceae	Elaeagnus triflora var. triflora			С		1/1
plants	land plants	Elaeocarpaceae	Sloanea australis subsp. parviflora			С		1/1
plants	land plants	Elaeocarpaceae	Elaeocarpus eumundi	Eumundi quandong		С		2/2
plants	land plants	Elaeocarpaceae	Elaeocarpus foveolatus			С		1/1
plants	land plants	Elaeocarpaceae	Elaeocarpus ruminatus			С		1/1
plants	land plants	Elaeocarpaceae	Elaeocarpus carolinae			С		2/2
plants	land plants	Elaeocarpaceae	Elaeocarpus elliffii			С		4/4
plants	land plants	Elaeocarpaceae	Sloanea macbrydei	northern yellow carabeen		С		1/1
plants	land plants	Elaeocarpaceae	Elaeocarpus obovatus subsp. umbratilis			С		2/2
plants	land plants	Elaeocarpaceae	Elaeocarpus largiflorens subsp. largiflorens			С		2/2
plants	land plants	Elaeocarpaceae	Elaeocarpus sericopetalus			С		2/2
plants	land plants	Ericaceae	Acrothamnus spathaceus			С		1/1
plants	land plants	Eriocaulaceae	Eriocaulon fistulosum			С		1/1
plants	land plants	Eriocaulaceae	Eriocaulon depressum			С		1/1
plants	land plants	Escalloniaceae	Polyosma hirsuta			С		2/2
plants	land plants	Escalloniaceae	Polyosma alangiacea			С		2/2
plants	land plants	Euphorbiaceae	Euphorbia hirta		Y	_		1/1
plants	land plants	Euphorbiaceae	Croton triacros			С		2/2
plants	land plants	Euphorbiaceae	Claoxylon tenerifolium subsp. boreale			С		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Euphorbiaceae	Bertya polystigma			С		1/1
plants	land plants	Euphorbiaceae	Mallotus polyadenos			С		1/1
plants	land plants	Fabaceae	Mirbelia pungens			С		1/1
plants	land plants	Fabaceae	Crotalaria brevis			С		1/1
plants	land plants	Fabaceae	Hovea densivellosa			С		1/1
plants	land plants	Fabaceae	Indigofera linnaei	Birdsville indigo		С		1/1
plants	land plants	Fabaceae	Desmodium nemorosum			С		1/1
plants	land plants	Fabaceae	Aeschynomene villosa		Y			1/1
plants	land plants	Fabaceae	Desmodium gangeticum			С		1/1
plants	land plants	Fabaceae	Gompholobium nitidum			С		1/1
plants	land plants	Fabaceae	Chorizema parviflorum	eastern flame pea		С		1/1
plants	land plants	Fabaceae	Indigofera trifoliata			С		1/1
plants	land plants	Fabaceae	Vigna vexillata var. angustifolia			С		1/1
plants	land plants	Fabaceae	Zornia muriculata subsp. muriculata			С		1/1
plants	land plants	Fabaceae	Desmodium heterocarpon var. heterocarpon			С		1/1
plants	land plants	Fabaceae	Tephrosia sp. (Miriam Vale E.J.Thompson+ MIR33)			С		1/1
plants	land plants	Flagellariaceae	Flagellaria indica	whip vine		С		1/1
plants	land plants	Gentianaceae	Fagraea fagraeacea			С		1/1
plants	land plants	Geocalycaceae	Chiloscyphus					4/4
plants	land plants	Geocalycaceae	Heteroscyphus argutus			С		1/1
plants	land plants	Gleicheniaceae	Sticherus flabellatus var. flabellatus			С		1/1
plants	land plants	Gleicheniaceae	Gleichenia dicarpa	pouched coral fern		С		1/1
plants	land plants	Goodeniaceae	Goodenia grandiflora			С		1/1
plants	land plants	Goodeniaceae	Velleia pubescens			С		3/3
plants	land plants	Haloragaceae	Gonocarpus humilis			С		1/1
plants	land plants	Haloragaceae	Gonocarpus chinensis subsp. verrucosus			С		1/1
plants	land plants	Himantandraceae	Galbulimima baccata			С		3/3
plants	land plants	Hymenophyllaceae	Hymenophyllum walleri			С		1/1
plants	land plants	Hymenophyllaceae	Crepidomanes bipunctatum			С		1/1
plants	land plants	Hymenophyllaceae	Vandenboschia johnstonensis			С		1/1
plants	land plants	Jungermanniaceae	Jungermannia					1/1
plants	land plants	Lamiaceae	Prostanthera clotteniana			Е	CE	2/2
plants	land plants	Lamiaceae	Platostoma longicorne			С		1/1
plants	land plants	Lamiaceae	Pityrodia salviifolia	pityrodia		С		1/1
plants	land plants	Lamiaceae	Mentha satureioides	native pennyroyal		С		1/1
plants	land plants	Lamiaceae	Coleus glabriflorus			С		1/1
plants	land plants	Lamiaceae	Coleus					1/1
plants	land plants	Lamiaceae	Teucrium argutum			С		1/1
plants	land plants	Lamiaceae	Leucas zeylanica		Y			1/1
plants	land plants	Lamiaceae	Coleus australis			С		4/3
plants	land plants	Lamiaceae	Coleus amicorum			С		8/8
plants	land plants	Lamiaceae	Coleus amoenus			V		4/4
plants	land plants	Lamiaceae	Anisomeles moschata			С		1/1
plants	land plants	Lauraceae	Beilschmiedia brunnea			С		1/1
plants	land plants	Lauraceae	Cryptocarya lividula			С		9/9
plants	land plants	Lauraceae	Cryptocarya angulata	ivory laurel		С		4/4
				-				

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Lauraceae	Beilschmiedia tooram			С		2/2
plants	land plants	Lauraceae	Endiandra sankeyana	Sankey's walnut		С		1/1
plants	land plants	Lauraceae	Cryptocarya grandis			С		2/2
plants	land plants	Lauraceae	Endiandra discolor	domatia tree		С		1/1
plants	land plants	Lauraceae	Cryptocarya putida			С		13/13
plants	land plants	Lauraceae	Cryptocarya oblata			С		1/1
plants	land plants	Lauraceae	Endiandra montana			С		5/5
plants	land plants	Lauraceae	Litsea connorsii			С		3/3
plants	land plants	Lauraceae	Endiandra wolfei			С		1/1
plants	land plants	Lauraceae	Beilschmiedia collina			С		2/2
plants	land plants	Lauraceae	Cryptocarya mackinnoniana			С		1/1
plants	land plants	Lauraceae	Cryptocarya melanocarpa			С		11/11
plants	land plants	Lauraceae	Cryptocarya leucophylla			С		1/1
plants	land plants	Lauraceae	Endiandra palmerstonii	Queensland walnut		С		2/2
plants	land plants	Lauraceae	Endiandra dichrophylla	coach walnut		С		10/10
plants	land plants	Lauraceae	Cryptocarya smaragdina			С		3/3
plants	land plants	Lauraceae	Cryptocarya saccharata			00000		2/2
plants	land plants	Lauraceae	Cryptocarya densiflora			С		3/3
plants	land plants	Lauraceae	Cryptocarya cocosoides			С		5/5
plants	land plants	Lauraceae	Endiandra sideroxylon			С		3/3
plants	land plants	Lauraceae	Cryptocarya corrugata			С		3/3
plants	land plants	Lauraceae	Beilschmiedia recurva			С		2/2
plants	land plants	Lejeuneaceae	Lejeuneaceae					1/1
plants	land plants	Lejeuneaceae	Lejeunea					1/1
plants	land plants	Lejeuneaceae	Leptolejeunea					1/1
plants	land plants	Lentibulariaceae	Utricularia caerulea	blue bladderwort		С		2/2
plants	land plants	Lepidoziaceae	Lepidozia					1/1
plants	land plants	Leucobryaceae	Leucobryum					3/3
plants	land plants	Linderniaceae	Artanema fimbriatum			С		1/1
plants	land plants	Linderniaceae	Lindernia sp. (Sudley A.Gunness 1886)			C C E		1/1
plants	land plants	Lindsaeaceae	Lindsaea terrae-reginae			Е		1/1
plants	land plants	Loganiaceae	Mitrasacme phascoides			С		1/1
plants	land plants	Loganiaceae	Mitrasacme oasena			С		2/2
plants	land plants	Lythraceae	Rotala tripartita			С		2/2
plants	land plants	Lythraceae	Rotala mexicana			C C		1/1
plants	land plants	Maesaceae	Maesa dependens var. dependens			С		1/1
plants	land plants	Malvaceae	Urena lobata	urena weed	Y			2/2
plants	land plants	Malvaceae	Sida rhombifolia		Y			1/1
plants	land plants	Marattiaceae	Ptisana oreades			С		1/1
plants	land plants	Meliaceae	Synoum glandulosum subsp. paniculosum			С		1/1
plants	land plants	Meliaceae	Synoum glandulosum subsp. glandulosum			С		1/1
plants	land plants	Menispermaceae	Stephania japonica var. timoriensis			С		1/1
plants	land plants	Menispermaceae	Hypserpa decumbens			С		1/1
plants	land plants	Menispermaceae	Parapachygone longifolia			С		1/1
plants	land plants	Menispermaceae	Hypserpa smilacifolia			С		2/2
plants	land plants	Meteoriaceae	Papillaria crocea			С		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Meteoriaceae	Papillaria flexicaulis			С		2/2
plants	land plants	Meteoriaceae	Aerobryopsis longissima			С		1/1
plants	land plants	Mimosaceae	Acacia humifusa			С		1/1
plants	land plants	Mimosaceae	Acacia calyculata			С		1/1
plants	land plants	Mimosaceae	Acacia crassicarpa			С		1/1
plants	land plants	Mimosaceae	Archidendron vaillantii	salmon bean		С		1/1
plants	land plants	Mimosaceae	Acacia					1/1
plants	land plants	Mimosaceae	Acacia burrana			С		1/1
plants	land plants	Mimosaceae	Acacia celsa			С		1/1
plants	land plants	Monimiaceae	Hedycarya loxocarya			С		1/1
plants	land plants	Monimiaceae	Pendressia wardellii			С		1/1
plants	land plants	Monimiaceae	Wilkiea angustifolia			С		4/4
plants	land plants	Monimiaceae	Austromatthaea elegans			С		2/2
plants	land plants	Monimiaceae	Steganthera laxiflora subsp. laxiflora			С		1/1
plants	land plants	Monimiaceae	Levieria acuminata			С		3/3
plants	land plants	Moraceae	Ficus copiosa			С		1/1
plants	land plants	Moraceae	Ficus henneana			С		1/1
plants	land plants	Myrsinaceae	Myrsine ireneae subsp. ireneae			С		2/2
plants	land plants	Myrsinaceae	Myrsine subsessilis subsp. cryptostemon			С		1/1
plants	land plants	Myrsinaceae	Tapeinosperma pallidum			С		1/1
plants	land plants	Myrsinaceae	Myrsine achradifolia			С		1/1
plants	land plants	Myrsinaceae	Myrsine maculata			С		1/1
plants	land plants	Myrsinaceae	Myrsine smithii			С		1/1
plants	land plants	Myrsinaceae	Myrsine porosa			С		1/1
plants	land plants	Myrtaceae	Syzygium endophloium			С		2/2
plants	land plants	Myrtaceae	Gossia myrsinocarpa			С		1/1
plants	land plants	Myrtaceae	Rhodomyrtus pervagata			С		1/1
plants	land plants	Myrtaceae	Syzygium apodophyllum			С		1/1
plants	land plants	Myrtaceae	Leptospermum anfractum			С		1/1
plants	land plants	Myrtaceae	Pilidiostigma tropicum	apricot myrtle		С		2/2
plants	land plants	Myrtaceae	Rhodomyrtus macrocarpa	finger cherry		С		1/1
plants	land plants	Myrtaceae	Syzygium trachyphloium			С		2/2
plants	land plants	Myrtaceae	Syzygium cryptophlebium			С		1/1
plants	land plants	Myrtaceae	Pilidiostigma tetramerum			С		2/2
plants	land plants	Myrtaceae	Leptospermum brachyandrum	weeping tea-tree		С		2/2
plants	land plants	Myrtaceae	Eucalyptus lockyeri subsp. exuta			С		3/3
plants	land plants	Myrtaceae	Eucalyptus pachycalyx subsp. pachycalyx			С		1/1
plants	land plants	Myrtaceae	Eucalyptus shirleyi			С		1/1
plants	land plants	Myrtaceae	Syzygium johnsonii	Johnson's satinash		С		2/2
plants	land plants	Myrtaceae	Eucalyptus exserta	Queensland peppermint		С		1/1
plants	land plants	Myrtaceae	Uromyrtus tenella			С		2/2
plants	land plants	Myrtaceae	Sannantha angusta			С		4/4
plants	land plants	Myrtaceae	Rhodamnia costata			С		1/1
plants	land plants	Myrtaceae	Melaleuca sylvana			Е		3/3
plants	land plants	Myrtaceae	Melaleuca recurva			С		1/1
plants	land plants	Myrtaceae	Syzygium kuranda	Kuranda satinash		С		2/2

Kingdom	Class	Family	Scientific Name	Common Name	I Q	Α	Records
plants	land plants	Myrtaceae	Acmena smithii	lillypilly satinash	С		2/2
plants	land plants	Myrtaceae	Syzygium wesa		С		2/2
plants	land plants	Myrtaceae	Gossia grayi		С		2/2
plants	land plants	Myrtaceae	Syzygium				1/1
plants	land plants	Myrtaceae	Lenwebbia lasioclada		С		1/1
plants	land plants	Myrtaceae	Eucalyptus granitica	granite ironbark	С		1/1
plants	land plants	Myrtaceae	Triplarina nitchaga		V	V	7/7
plants	land plants	Myrtaceae	Rhodamnia blairiana		С		1/1
plants	land plants	Myrtaceae	Melaleuca viminalis		С		1/1
plants	land plants	Myrtaceae	Homoranthus porteri		V	V	2/2
plants	land plants	Myrtaceae	Rhodomyrtus canescens		С		1/1
plants	land plants	Ochnaceae	Brackenridgea australiana		С		7/7
plants	land plants	Oleaceae	Notelaea sp. (Barakula A.R.Bean 7553)		С		1/1
plants	land plants	Oleaceae	Chionanthus acuminiger		С		1/1
plants	land plants	Oleaceae	Jasminum dallachii	soft jasmine	С		1/1
plants	land plants	Onagraceae	Ludwigia octovalvis	willow primrose	С		1/1
plants	land plants	Orchidaceae	Dendrobium carrii		С		1/1
plants	land plants	Orchidaceae	Caladenia carnea		С		1/1
plants	land plants	Orchidaceae	Cadetia taylori		С		1/1
plants	land plants	Orchidaceae	Diuris oporina	northern white donkeys tails	N		2/2
plants	land plants	Orchidaceae	Corybas abellianus	nodding helmet orchid	N	-	1/1
plants	land plants	Orchidaceae	Mobilabium hamatum		С		1/1
plants	land plants	Orchidaceae	Octarrhena pusilla		С		2/2
plants	land plants	Orchidaceae	Dipodium ensifolium	leafy hyacinth orchid	С		2/2
plants	land plants	Orchidaceae	Dockrillia nugentii		С		1/1
plants	land plants	Orchidaceae	Microtis parviflora	slender onion orchid	С		1/1
plants	land plants	Orchidaceae	Bulbophyllum lilianae		С		1/1
plants	land plants	Orchidaceae	Arthrochilus dockrillii		С		2/2
plants	land plants	Orchidaceae	Dendrobium canaliculatum		С		1/1
plants	land plants	Orchidaceae	Thelymitra queenslandica		С		1/1
plants	land plants	Oxalidaceae	Oxalis chnoodes		С		1/1
plants	land plants	Pallaviciniaceae	Symphyogyna		-		1/1
plants	land plants	Pennantiaceae	Pennantia cunninghamii	brown beech	C		2/2
plants	land plants	Phyllanthaceae	Antidesma erostre		С		2/2
plants	land plants	Phyllanthaceae	Glochidion hylandii		C		1/1
plants	land plants	Phyllanthaceae	Phyllanthus dallachyanus subsp. (Irvinebank P.I.Forster PIF14675)		С		1/1
plants	land plants	Phyllanthaceae	Glochidion harveyanum var. harveyanum		С		1/1
plants	land plants	Phyllanthaceae	Glochidion sessiliflorum var. pedicellatum		С		1/1
plants	land plants	Phyllanthaceae	Phyllanthus tenellus		Y		1/1
plants	land plants	Piperaceae	Peperomia enervis		С		1/1
plants	land plants	Pittosporaceae	Pittosporum rubiginosum		С		1/1
plants	land plants	Pittosporaceae	Pittosporum trilobum		С		1/1
plants	land plants	Plantaginaceae	Plantago major	greater plantain	Y		1/1
plants	land plants	Plantaginaceae	Mecardonia procumbens		Y		1/1
plants	land plants	Plantaginaceae	Veronica plebeia	trailing speedwell	С		2/2

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Plantaginaceae	Scoparia dulcis	scoparia	Y			2/2
plants	land plants	Poaceae	Panicum simile			С		1/1
plants	land plants	Poaceae	Leersia hexandra	swamp rice grass		С		1/1
plants	land plants	Poaceae	Eragrostis sp. (Lakefield NP J.R.Clarkson+ 7010)			С		1/1
plants	land plants	Poaceae	Dimeria sp. (Mosquito Point J.R.Clarkson+ 9994)			С		1/1
plants	land plants	Poaceae	Microlaena stipoides var. stipoides			С		2/2
plants	land plants	Poaceae	Setaria pumila subsp. subtesselata		Y			1/1
plants	land plants	Poaceae	Hyparrhenia rufa subsp. altissima		Y			1/1
plants	land plants	Poaceae	Phyllostachys bambusoides		Y			1/1
plants	land plants	Poaceae	Hyparrhenia filipendula	tambookie grass		С		1/1
plants	land plants	Poaceae	Sporobolus pyramidalis		Y			1/1
plants	land plants	Poaceae	Schizachyrium fragile	firegrass		С		1/1
plants	land plants	Poaceae	Eragrostis parviflora	weeping lovegrass		С		1/1
plants	land plants	Poaceae	Ottochloa nodosa			С		1/1
plants	land plants	Poaceae	Paspalum urvillei	vasey grass	Y			1/1
plants	land plants	Poaceae	Eragrostis brownii	Brown's lovegrass		С		1/1
plants	land plants	Poaceae	Eragrostis sororia			С		1/1
plants	land plants	Poaceae	Oplismenus aemulus	creeping shade grass		С		1/1
plants	land plants	Poaceae	Panicum mitchellii			С		1/1
plants	land plants	Poaceae	Urochloa decumbens		Y			1/1
plants	land plants	Poaceae	Axonopus compressus		Y			1/1
plants	land plants	Poaceae	Eragrostis elongata			С		1/1
plants	land plants	Poaceae	Eragrostis mexicana	Mexican lovegrass	Y			1/1
plants	land plants	Poaceae	Paspalidium distans	shotgrass		С		1/1
plants	land plants	Poaceae	Sporobolus fertilis	giant Parramatta grass	Y			2/2
plants	land plants	Poaceae	Axonopus fissifolius		Y			1/1
plants	land plants	Poaceae	Cymbopogon refractus	barbed-wire grass		С		1/1
plants	land plants	Poaceae	Ectrosia agrostoides			С		1/1
plants	land plants	Poaceae	Paspalum paniculatum	Russell River grass	Y			1/1
plants	land plants	Podocarpaceae	Prumnopitys amara			С		1/1
plants	land plants	Polygalaceae	Xanthophyllum octandrum			С		3/3
plants	land plants	Polygalaceae	Comesperma rhyoliticum			С		1/1
plants	land plants	Polygalaceae	Salomonia ciliata			С		1/1
plants	land plants	Polypodiaceae	Belvisia mucronata var. mucronata			С		1/1
plants	land plants	Polypodiaceae	Pyrrosia confluens var. dielsii			С		1/1
plants	land plants	Polypodiaceae	Dictymia brownii	strap fern		С		2/2
plants	land plants	Polypodiaceae	Crypsinus simplicissimus	-		С		1/1
plants	land plants	Polypodiaceae	Grammitis stenophylla			С		1/1
plants	land plants	Polytrichaceae	Dawsonia polytrichoides			С		1/1
plants	land plants	Porellaceae	Porella crawfordii			С		1/1
plants	land plants	Proteaceae	Lomatia milnerae			С		1/1
plants	land plants	Proteaceae	Banksia aquilonia			С		2/2
plants	land plants	Proteaceae	Persoonia tropica			С		7/7
plants	land plants	Proteaceae	Alloxylon flammeum			V	V	1/1
plants	land plants	Proteaceae	Helicia nortoniana			С		1/1
plants	land plants	Proteaceae	Cardwellia sublimis			С		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Proteaceae	Carnarvonia araliifolia var. montana			С		1/1
plants	land plants	Proteaceae	Bleasdalea bleasdalei			С		6/6
plants	land plants	Proteaceae	Darlingia darlingiana			С		4/4
plants	land plants	Proteaceae	Helicia lamingtoniana			С		1/1
plants	land plants	Proteaceae	Buckinghamia celsissima	spotted silky oak		С		1/1
plants	land plants	Proteaceae	Stenocarpus reticulatus			С		3/3
plants	land plants	Proteaceae	Darlingia ferruginea			С		1/1
plants	land plants	Pteridaceae	Cheilanthes			~		1/1
plants	land plants	Pteridaceae	Pteris umbrosa	jungle bracken		C		1/1
plants	land plants	Pteridaceae	Adiantum silvaticum			С		1/1
plants	land plants	Pteridaceae	Monogramma acrocarpa			С		1/1
plants	land plants	Pterobryaceae	Calyptothecium			~		1/1
plants	land plants	Pterobryaceae	Pterobryidium australe			C		1/1
plants	land plants	Pterobryaceae	Muellerobryum whiteleggei			С		1/1
plants	land plants	Ptychomniaceae	Garovaglia elegans subsp. dietrichiae			С		1/1
plants	land plants	Ptychomniaceae	Garovaglia			C		1/1 2/2
plants	land plants	Putranjivaceae	Drypetes acuminata			C C		1/1
plants	land plants land plants	Pylaisiadelphaceae	Isopterygium albescens			C		1/1
plants		Radulaceae Restionaceae	Radula ocellata Dapsilanthus ramosus			c		1/1
plants	land plants	Rhamnaceae	Cryptandra debilis			c		1/1
plants plants	land plants land plants	Rhizogoniaceae	Pyrrhobryum spiniforme			c		1/1
plants	land plants	Ripogonaceae	Ripogonum danesii			c		1/1
plants	land plants	Rosaceae	Rubus moluccanus var. trilobus			c		1/1
plants	land plants	Rubiaceae	Gynochthodes oresbia			č		1/1
plants	land plants	Rubiaceae	Psychotria sp. (Utchee Creek H.Flecker NQNC5313)			č		1/1
plants	land plants	Rubiaceae	Spermacoce sp. (Lorim Point A.Morton AM1237)			č		2/2
plants	land plants	Rubiaceae	Atractocarpus fitzalanii subsp. fitzalanii			č		1/1
plants	land plants	Rubiaceae	Atractocarpus fitzalanii subsp. tenuipes			č		2/2
plants	land plants	Rubiaceae	Pavetta australiensis var. pubigera			č		1/1
plants	land plants	Rubiaceae	Scleromitrion polycladum			ŇT		1/1
plants	land plants	Rubiaceae	Gynochthodes jasminoides			С		1/1
plants	land plants	Rubiaceae	Cyclophyllum multiflorum			Č		1/1
plants	land plants	Rubiaceae	Amaracarpus nematopodus			C		2/2
plants	land plants	Rubiaceae	Richardia brasiliensis	white eye	Y			1/1
plants	land plants	Rubiaceae	Gynochthodes umbellata	5		С		2/2
plants	land plants	Rubiaceae	Gynochthodes retropila			С		4/4
plants	land plants	Rubiaceae	Antirhea					1/1
plants	land plants	Rubiaceae	Ixora oreogena			С		1/1
plants	land plants	Rubiaceae	Bobea myrtoides			С		3/3
plants	land plants	Rubiaceae	Antirhea tenuiflora			С		1/1
plants	land plants	Rubiaceae	Psydrax laxiflorens			С		2/2
plants	land plants	Rubiaceae	Opercularia diphylla			С		1/1
plants	land plants	Rubiaceae	Atractocarpus merikin			С		1/1
plants	land plants	Rutaceae	Clausena brevistyla	clausena		С		1/1
plants	land plants	Rutaceae	Boronia occidentalis			С		2/2

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	А	Records
plants	land plants	Rutaceae	Halfordia kendack	saffron heart		С		2/2
plants	land plants	Rutaceae	Acronychia vestita			С		3/3
plants	land plants	Rutaceae	Flindersia acuminata	silver silkwood		С		1/1
plants	land plants	Rutaceae	Acronychia acronychioides			С		1/1
plants	land plants	Rutaceae	Acronychia parviflora			С		2/2
plants	land plants	Rutaceae	Flindersia pimenteliana	maple silkwood		С		8/8
plants	land plants	Rutaceae	Acronychia crassipetala			С		3/3
plants	land plants	Rutaceae	Melicope broadbentiana			С		1/1
plants	land plants	Rutaceae	Flindersia bourjotiana			С		8/8
plants	land plants	Rutaceae	Zanthoxylum veneficum			С		1/1
plants	land plants	Rutaceae	Melicope xanthoxyloides			С		2/2
plants	land plants	Salicaceae	Casearia grayi			С		2/2
plants	land plants	Salicaceae	Casearia costulata			С		1/1
plants	land plants	Salicaceae	Casearia dallachii			С		1/1
plants	land plants	Sapindaceae	Synima cordierorum			С		1/1
plants	land plants	Sapindaceae	Mischocarpus lachnocarpus			С		1/1
plants	land plants	Sapindaceae	Mischarytera lautereriana	corduroy tamarind		С		2/2
plants	land plants	Sapindaceae	Mischocarpus macrocarpus			С		1/1
plants	land plants	Sapindaceae	Sarcotoechia lanceolata			С		4/4
plants	land plants	Sapindaceae	Rhysotoechia mortoniana			С		2/2
plants	land plants	Sapindaceae	Toechima erythrocarpum			С		1/1
plants	land plants	Sapindaceae	Sarcotoechia protracta			С		4/4
plants	land plants	Sapindaceae	Cnesmocarpon dasyantha			С		2/2
plants	land plants	Sapindaceae	Castanospora alphandii	brown tamarind		С		2/2
plants	land plants	Sapindaceae	Alectryon semicinereus			С		1/1
plants	land plants	Sapindaceae	Cupaniopsis papillosa			С		2/2
plants	land plants	Sapindaceae	Sarcotoechia cuneata			С		3/3
plants	land plants	Sapindaceae	Sarcopteryx martyana			С		2/2
plants	land plants	Sapindaceae	Lepiderema ixiocarpa			С		4/4
plants	land plants	Sapindaceae	Harpullia rhyticarpa			С		1/1
plants	land plants	Sapindaceae	Synima reynoldsiae			С		2/2
plants	land plants	Sapindaceae	Arytera pauciflora			С		2/2
plants	land plants	Sapindaceae	Dodonaea uncinata			NT		2/2
plants	land plants	Sapindaceae	Guioa lasioneura			С		1/1
plants	land plants	Sapindaceae	Guioa acutifolia	northern guioa		С		1/1
plants	land plants	Sapindaceae	Mischocarpus pyriformis subsp. pyriformis	C C		С		1/1
plants	land plants	Sapindaceae	Cupaniopsis flagelliformis var. flagelliformis			С		1/1
plants	land plants	Sapindaceae	Guioa montana			С		2/2
plants	land plants	Sapotaceae	Pleioluma brownlessiana			С		2/2
plants	land plants	Sapotaceae	Planchonella asterocarpon			С		2/2
plants	land plants	Sapotaceae	Planchonella euphlebia			С		4/4
plants	land plants	Smilacaceae	Smilax aculeatissima			С		1/1
plants	land plants	Solanaceae	Solanum viridifolium			С		1/1
plants	land plants	Solanaceae	Cestrum elegans		Y			1/1
plants	land plants	Solanaceae	Solanum macoorai			С		1/1
plants	land plants	Solanaceae	Solanum hamulosum			Е		1/1
	-							

Kingdom	Class	Family	Scientific Name	Common Name		Q	А	Records
plants	land plants	Solanaceae	Solanum americanum		Y			2/2
plants	land plants	Solanaceae	Solanum lasiocarpum		Y			1/1
plants	land plants	Solanaceae	Solanum mauritianum	wild tobacco	Y			1/1
plants	land plants	Solanaceae	Solanum parvifolium			С		1/1
plants	land plants	Solanaceae	Solanum parvifolium subsp. tropicum			С		1/1
plants	land plants	Sphenostemonaceae	e Sphenostemon lobosporus			С		1/1
plants	land plants	Stemonuraceae	Irvingbaileya australis			С		2/2
plants	land plants	Sterculiaceae	Firmiana papuana	lacewood		V		1/1
plants	land plants	Sterculiaceae	Franciscodendron laurifolium			С		3/3
plants	land plants	Stylidiaceae	Stylidium eriorhizum			С		2/2
plants	land plants	Symplocaceae	Symplocos stawellii			С		1/1
plants	land plants	Symplocaceae	Symplocos hayesii			С		2/2
plants	land plants	Symplocaceae	Symplocos glabra			С		2/2
plants	land plants	Thelypteridaceae	Pneumatopteris sogerensis			С		1/1
plants	land plants	Thuidiaceae	Thuidium					2/2
plants	land plants	Thymelaeaceae	Pimelea linifolia subsp. linifolia			С		1/1
plants	land plants	Thymelaeaceae	Pimelea linifolia			С		1/1
plants	land plants	Thymelaeaceae	Pimelea plurinervia			С		3/3
plants	land plants	Urticaceae	Elatostema reticulatum	rainforest spinach		С		2/2
plants	land plants	Verbenaceae	Verbena incompta		Y			1/1
plants	land plants	Verbenaceae	Stachytarpheta jamaicensis	Jamaica snakeweed	Y			1/1
plants	land plants	Verbenaceae	Lantana camara	lantana	Y			1/1
plants	land plants	Violaceae	Viola hederacea subsp. hederacea			С		1/1
plants	land plants	Viscaceae	Viscum whitei subsp. whitei			С		2/2
plants	land plants	Vitaceae	Cissus vinosa			С		2/2
plants	land plants	Xyridaceae	Xyris complanata	yellow-eye		С		1/1
	-		-					

CODES

I - Y indicates that the taxon is introduced to Queensland and has naturalised.

- Q Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992*. The codes are Extinct in the Wild (PE), Endangered (E), Vulnerable (V), Near Threatened (NT), Least Concern (C) or Not Protected ().
- A Indicates the Australian conservation status of each taxon under the *Environment Protection and Biodiversity Conservation Act 1999.* The values of EPBC are Conservation Dependent (CD), Critically Endangered (CE), Endangered (E), Extinct (EX), Extinct in the Wild (XW) and Vulnerable (V).

Records – The first number indicates the total number of records of the taxon for the record option selected (i.e. All, Confirmed or Specimens). This number is output as 99999 if it equals or exceeds this value. The second number located after the / indicates the number of specimen records for the taxon. This number is output as 999 if it equals or exceeds this value.



Appendix B



Scientific Name	Common Name	Order	Family	EPBC	QLD	Invasive
Acacia leptostachya	Townsville wattle	Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia aulacocarpa	Golden flowered salwood	Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia calyculata		Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia crassicarpa	northern wattle	Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia disparrima	southern salwood	Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia flavescens	Yellow Wattle	Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia implexa	hickory wattle	Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia melanoxylon	Australian blackwood	Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia simsii	Sims' Wattle	Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia sp.		Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia umbellata		Fabales	Leguminosae (Mimosaceae)	-	-	-
Acacia whitei	White's Wattle	Fabales	Leguminosae (Mimosaceae)	-	-	-
Acmena smithii	Lilly Pilly	Myrtales	Myrtaceae	-	-	-
Allocasuarina inophloia	woolly oak	Fagales	Casuarinaceae	-	-	-
Allocasuarina littoralis	black sheoak	Fagales	Casuarinaceae	-	-	-
Allocasuarina torulosa	Rose she-oak	Fagales	Casuarinaceae	-	-	-
Alloteropsis semialata	Cockatoo Grass	Poales	Poaceae	-	-	-
Alphitonia excelsa	Red Ash	Rosales	Rhamnaceae	-	-	-
Ancistrachne uncinulata	Hooky Grass	Poales	Poaceae	-	-	-
Angophora floribunda	Rough-barked apple	Myrtales	Myrtaceae	-	-	-
Aristida Calycina	dark wiregrass	Poales	Poaceae	-	-	-
Arundinella nepalensis	Reed Grass	Poales	Poaceae	-	-	-
Banksia aquilonia	northern banksia	Proteales	Proteaceae	-	-	-
Brachychiton populneus	Kurrajong	Malvales	Sterculiaceae	-	-	-
Breynia oblongifolia	coffee bush	Malpighiales	Phyllanthaceae	-	-	-
Brunoniella australis	Blue Trumpet	Lamiales	Acanthaceae	-	-	-
Bursaria incana	Prickly pine	Apiales	Pittosporaceae	-	-	-
Caladenia fuscata	Dusky fingers	Asparagales	Orchidaceae	-	-	-
Callitris intratropica	Blue Cypress	Pinales	Cupressaceae	-	-	-
Capillipedium spicigerum	Scented-top Grass	Poales	Poaceae	-	-	-
Capparis canescens	Wild Orange	Brassicales	Capparaceae	-	-	-
Casuarina cunninghamiana	River she-oak	Fagales	Casuarinaceae	-	-	-
Centella asiatica	Gotu Kola	Apiales	Apiaceae	-	-	-
Chamaecrista rotundifolia	roundleaf sensitive pea	Fabales	Leguminosae (Caesalpiniaceae	-	-	-
Cheilanthes sieberi	poison rock fern	Polypodiales	Pteridaceae	-	-	-
Coleus amoenus		Lamiales	Lamiaceae	-	Vulnerable	-
Corymbia abergiana	range bloodwood	Myrtales	Myrtaceae	-	-	_
Corymbia citriodora	Lemon Scented Gum	Myrtales	Myrtaceae	-	-	-
Corymbia clarksoniana	Clarksons Bloodwood	Myrtales	Myrtaceae	-	-	-
Corymbia intermedia	Pink Bloodwood	Myrtales	Myrtaceae	-	-	-
Corymbia sp.		, Myrtales	Myrtaceae	-	-	-
Corymbia tessellaris	Moreton Bay Ash	Myrtales	Myrtaceae	-	-	-
Corymbia trachyphloia	Brown Bloodwood	, Myrtales	Myrtaceae	-	-	-
Cymbidium sauve	Grassy boat-lip	Asparagales	Orchidaceae			
Cymbopogon sp.	, ,	Poales	Poaceae	-	-	-
Cyperus sp.		Poales	Cyperaceae	-	-	-
Denhamia sp.		Celastrales	Celastraceae	-	-	-
Desmodium rhytidophyllum	Rusty tick-trefoil	Fabales	Leguminosae (Fabaceae)	-	-	-
Desmodium sp.		Fabales	Leguminosae (Fabaceae)	-	-	-
Dianella caerulea	blue flax-lily	Asparagales	Hemerocallidaceae	-	-	-
Dianella longifolia	Pale Flax-lily	Asparagales	Hemerocallidaceae	-	-	-
Dianella revoluta	black anther flax-lily	Asparagales	Hemerocallidaceae	-	-	-
Dianella sp.	· /	Asparagales	Hemerocallidaceae	-	-	-
Dioscorea transversa	Dioscoreaceae	Dioscoreales		-	-	-
Dipodium ensifolium	Leafy hyacinth-orchid	Asparagales	Orchidaceae	-	-	-
Dodonaea lanceolata		Sapindales	Sapindaceae	-	-	-
Dodonaea uncinata		Sapindales	Sapindaceae	-	Near Threatened	-
Drosera burmannii	sundew, tropical sundew	Caryophyllales	Droseaceae	-	-	-
Drosera hookeri		Caryophyllales	Droseaceae	-	-	-
Enneapogon sp.		Poales	Poaceae	-	-	-
Entolasia stricta	wiry panic	Poales	Poaceae	-	-	-
Eremophila sp.	<i>· ·</i> ·	Lamiales	Scrophulariaceae	-	-	-
Eucaluptus shirleyi	Shirley's silver leafed ironbar		Myrtaceae	-	-	-
Eucalyptus crebra	Narrow-leaved ironbark	Myrtales	Myrtaceae	-	-	-
Eucalyptus exserta	Queensland peppermint	Myrtales	Myrtaceae	-	-	-
Eucalyptus granitica		Myrtales	Myrtaceae	-	-	-
Eucalyptus lockyeri	Lockyer's box	Myrtales	Myrtaceae	-	-	-
Eucalyptus melanophloia	Silver-leaved ironbark	Myrtales	Myrtaceae	-	-	-
,,				1	1	1

Scientific Name	Common Name	Order	Family	EPBC	QLD	Invasive
Eucalyptus platyphylla	White gum	Myrtales	Myrtaceae	-	-	-
Eucalyptus portuensis	White mahogany	Myrtales	Myrtaceae	-	-	-
Eucalyptus reducta		Myrtales	Myrtaceae	-	-	-
Eucalyptus resinifera	e,	Myrtales	Myrtaceae	-	-	-
Eucalyptus shirleyi	Shirley's silver leafed ironbar	1	Myrtaceae	-	-	-
Eucalyptus tereticornis	Blue gum	, Myrtales	Myrtaceae	-	-	-
Euclyptus portuensis		, Myrtales	Myrtaceae	-	-	-
Euroschinus falcata	Maiden's blush	Sapindales	Anacardiaceae	-	-	-
Eustrephus latifolius		Asparagales	Laxmanniaceae	-	-	-
Gahnia aspera	,	Poales	Cyperaceae	-	-	-
Gastrolobium grandiflorum	Wallflower poison	Fabales	Leguminosae (Fabaceae)	-	-	-
	Shepherd's crook orchid					
Geodorum densiflorum		Asparagales	Orchidaceae	-	-	-
Glycine clandestina	Twining glycine	Fabales	Leguminosae (Fabaceae)	-	-	-
Glycine tabacina	variable glycine	Fabales	Leguminosae (Fabaceae)	-	-	-
Grevillea glauca		Proteales	Proteaceae	-	-	-
Grevillea parallela	White grevillea	Proteales	Proteaceae	-	-	-
Grevillea pteridifolia	•	Proteales	Proteaceae	-	-	-
Grewia latifolia	Dogs balls	Malvales	Sparrmanniaceae	-	-	-
	*		Proteaceae	-	-	-
			Poaceae	-	-	-
Hibbertia aspera	Rough guinea flower	Dilleniales	Dilleniaceae	-	-	-
Hibbertia bicarpellata		Dilleniales	Dilleniaceae	-	-	-
Hibbertia stricta		Dilleniales	Dilleniaceae			
Homoranthus porteri		Myrtales	Myrtaceae	- Vulnerable	- Vulnerable	
Hovea sp.		Fabales	Leguminosae (Fabaceae)	-		-
Imperata cylindrica		Poales	Poaceae	-	-	-
Ischaemum australe	0 0		Poaceae	-		-
Jacksonia thesioides	Large Bluegrass	Fabales		-	-	-
Jacksonia triesiolaes Jasminum simplicifolium	Stiff jasmine	Lamiales	Leguminosae (Fabaceae) Oleaceae	-	-	-
	Lantana	Lamiales	Verbenaceae	-	-	- Voc
Lantana camara						Yes
Laxmannia gracilis	Slender wire lily	Asparagales	Laxmanniaceae	-	-	-
Lepidosperma laterale	variable swordsedge	Poales Fabales	Cyperaceae	-	-	-
Leptosema oxylobioides			Leguminosae (Fabaceae)	-	-	-
Leptospermum sp.		Myrtales	Myrtaceae	-	-	-
Leucopogon sp.		Myrtales	Myrtaceae	-	-	-
Lomandra hystrix		Asparagales	Laxmanniaceae			-
Lomandra longifolia		Asparagales	Laxmanniaceae			-
Lomandra multiflora	Many-flowered Mat-rush	Asparagales	Laxmanniaceae			-
Lophostemon confertus	Brush Box	Myrtales	Myrtaceae			-
Lophostemon suaveolens		Myrtales	Myrtaceae	-	-	-
Melaleuca bracteata	Rver tea-tree	Myrtales	Myrtaceae	-	-	-
Melaleuca sp.		Myrtales	Myrtaceae	-	-	-
		,	Myrtaceae	-	-	-
			Myrtaceae	-	-	-
Melastoma sp.		Myrtales	Melastomataceae	-	-	-
Melichrus adpressus		Ericales	Ericaceae	-	-	-
Melichrus urceolatus		Ericales	Ericaceae	-	-	-
Melinis repens	Red Natal grass	Poales	Poaceae	-	-	-
Neolitsea dealbata	hairy-leaved bolly gum	Laurales	Lauraceae	-	-	-
Notelaea microcarpa	Mock-olive	Lamiales	Oleaceae	-	-	-
Oplismenus aemulus	0	Poales	Poaceae	-	-	-
Pandanus sp.		Pandanales	Pandanaceae	-	-	-
Panicum effusum	hairy panic	Poales	Poaceae	-	-	-
Persoonia falcata	,	Proteales	Proteaceae	-	-	-
Persoonia tropica		Proteales	Proteaceae	-	-	-
Petalostigma pubescens		Malpighiales		-	-	-
Pimelea linifolia	slender rice flower	Malvales	Thymelaeaceae	-	-	-
Pittosporum sp.			Pittosporaceae	-	-	-
Platysace valida		Apiales	Apiaceae	-	-	-
Polyscias australiana	Ivory Basswood	Apiales	Araliaceae	-		-
Pomaderris alphitonioides	Yellow ash	Rosales	Rhamnaceae	-	-	-
		Rosales	Rhamnaceae	-	-	-
Pomaderris argyrophylla	Silver Pomaderris	Rusales				
		Rosales	Rhamnaceae	-	-	-
Pomaderris argyrophylla			Rhamnaceae Asteraceae	-	-	-
Pomaderris argyrophylla Pomaderris sp.		Rosales		- - Critically Endangered	- - Critical	- - -
Pomaderris argyrophylla Pomaderris sp. Praxelis clematidea	Praxelis	Rosales Asterales	Asteraceae	- - Critically Endangered -	- - Critical -	- - -

Chalumbin Wind Farm - EAR Flora Species List (December 2021)

Scientific Name	Common Name	Order	Family	EPBC	QLD	Invasive
Rapanea variabilis	Muttonwood	Polypodiales	Primulaceae	-	-	-
Rubus sp.		Rosales	Rosaceae	-	-	-
Sarcochilus ceciliae	Fairy bells	Asparagales	Orchidaceae	-	-	-
Sida hackettiana	Spiked Sida	Malvales	Malvaceae	-	-	-
Sida sp		Malvales	Malvaceae	-	-	-
Smilax australis	Smilax	Liliales	Smilacaceae	-	-	-
Stylosanthes humilis	Townsville stylo	Fabales	Leguminosae (Fabaceae)	-	-	-
Syncarpia glomulifera	Turpentine tree	Myrtales	Myrtaceae	-	-	-
Themeda quadrivalvis	Grader grass	Poales	Poaceae	-	-	-
Themeda triandra	Kangaroo grass	Poales	Poaceae	-	-	-
Thysanotus tuberosus	Common fringe-lily	Asparagales	Laxmanniaceae	-	-	-
Trema aspera	Peach leaf poison bush	Rosales	Ulmaceae	-	-	-
Triplarina nitchaga		Myrtales	Myrtaceae	Vulnerable	Vulnerable	-
Utricularia biloba	moth bladderwort	Lamiales	Lentibulariaceae			
Utricularia caerulea	blue bladderwort	Lamiales	Lentibulariaceae	-	-	-
Utricularia uliginosa	Asian bladderwort	Lamiales	Lentibulariaceae	-	-	-
Xanthorrhoea johnsonii	Grass Tree	Asparagales	Xanthorrhoeaceae	-	-	-

Chalumbin Wind Farm - EAR Fauna Species List (December 2021)

Class											
	Family	Scientific name	Common name	NC Act	EPBC Act	Jan-21	Mar-21	Jun-21	Oct-21	BUS Jun-21	BUS Oct-21
amphibians	Hylidae	Litoria dentata	bleating treefrog	С					х		
amphibians	Hylidae	Litoria latopalmata	broad palmed rocketfrog	С		x	x	х			
amphibians	Hylidae	Litoria inermis	bumpy rocketfrog	С		x			х		
amphibians	Hylidae	Litoria caerulea	common green treefrog	C		x		x			
amphibians	Hylidae	Litoria fallax	eastern sedgefrog	C		x					
amphibians	Hylidae	Litoria wilcoxii	eastern stony creek frog	C		x	x				
amphibians	Hylidae	Litoria gracilenta	graceful treefrog	C		x					
amphibians	Limnodynastidae	Limnodynastes convexiusculus	marbled frog	c		v	v				
amphibians	Myobatrachidae	Uperoleia mimula	mimicking gungan	c		x	~				
amphibians	Myobatrachidae	Uperoleia altissima	Montane Gungan	c		~	~				
amphibians	Hylidae	Litoria rothii	northern laughing treefrog	c		v	^				
		Platyplectrum ornatum		c		x	~				
amphibians amphibians	Limnodynastidae		ornate burrowing frog	c		*	x				
	Limnodynastidae Microhylidae	Limnodynastes terraereginae Cophixalus australis	scarlet sided pobblebonk	c		*					
amphibians	,		southern ornate nursery-frog			x	x				
amphibians	Limnodynastidae	Limnodynastes tasmaniensis	spotted grassfrog	C		x					
amphibians	Hylidae	Litoria nasuta	striped rocketfrog	C		x					
birds	Corcoracidae	Struthidea cinerea	apostlebird	C				x			
birds	Anhingidae	Anhinga novaehollandiae	Australasian darter	C				x	x		
birds	Oriolidae	Sphecotheres vieilloti	Australasian figbird	С		x			x		
birds	Podicipedidae	Tachybaptus novaehollandiae	Australasian grebe	C				x	x		
birds	Motacillidae	Anthus novaeseelandiae	Australasian pipit	С		x		x	x		
birds	Megapodiidae	Alectura lathami	Australian brush turkey	С		х			x		
birds	Falconidae	Falco longipennis	Australian hobby	С						х	
birds	Artamidae	Gymnorhina tibicen	Australian magpie	С		x		х	х	x	х
birds	Aegothelidae	Aegotheles cristatus	Australian owlet-nightjar	С		x					
birds	Corvidae	Corvus coronoides	Australian raven	С				x	x	x	x
birds	Acrocephalidae	Acrocephalus australis	Australian reed-warbler	С					x		
birds	Monarchidae	Monarcha melanopsis	black-faced monarch	SL	М	x					
birds	Apodidae	Aerodramus terraereginae	Australian swiftlet	С					x	х	x
birds	Anatidae	Chenonetta jubata	Australian wood duck	С		x			x		
birds	Alcedinidae	Ceyx azureus	azure kingfisher	С		х		х	x		
birds	Meliphagidae	Cissomela pectoralis	banded honeyeater	C		x			х		
birds	Strigidae	Ninox connivens	barking owl	C		x			x		
birds	Campephagidae	Coracina lineata	barred cuckoo-shrike	c					x		
birds	Columbidae	Geopelia humeralis	bar-shouldered dove	c					x	х	х
birds	Turdidae	Zoothera lunulata	Bassian thrush	c		x		x	~	~	~
birds	Accipitridae	Milvus migrans	black kite	c		~		x			
birds	Meliphagidae	5		c		2		^			
birds	Cuculidae	Melithreptus gularis	black-chinned honeyeater	c		x			~		
		Chalcites osculans	black-eared cuckoo	-					x		
birds	Campephagidae	Coracina novaehollandiae	black-faced cuckoo-shrike	C		x		x	x	x	x
birds	Artamidae	Artamus cinereus	black-faced woodswallow	C					х		
birds	Charadriidae	Elseyornis melanops	black-fronted dotterel	C					x		
birds	Meliphagidae	Entomyzon cyanotis	blue-faced honeyeater	С		x		x	x		
birds	Halcyonidae	Dacelo leachii	blue-winged kookaburra	С		х		x	x		
birds	Pachycephalidae	Colluricincla boweri	Bower's shrike-thrush	С			x				
birds	Meliphagidae	Bolemoreus frenatus	bridled honeyeater	С		x		х	х	х	
birds	Columbidae	Macropygia amboinensis	brown cuckoo-dove	С		х			x		
birds	Falconidae	Falco berigora	brown falcon	С		x			х	х	
birds	Accipitridae	Accipiter fasciatus	brown goshawk	С		х			х		х
birds	Meliphagidae	Lichmera indistincta	brown honeyeater	С		х		х	х	х	х
birds	Phasianidae	Coturnix ypsilophora	brown quail	С					х		
birds	Climacteridae	Climacteris picumnis	brown treecreeper	С				х	x		
birds	Cuculidae	Cacomantis variolosus	brush cuckoo	С		х		x	x		x
amphibians	Bufonidae	Rhinella marina	cane toad			х	x	х			
birds	Rallidae	Gallirallus philippensis	buff-banded rail	С					х		
mammals	Acrobatidae	Acrobates pygmaeus	feathertail glider	С		x					
birds	Halcyonidae	Tanysiptera sylvia	Buff-breasted paradise kingfisher	C				x			
birds	Acanthizidae	Acanthiza reguloides	buff-rumped thornbill	C		x		x	x		x
birds	Burhinidae	Burhinus grallarius	bush stone-curlew	c		x	x		x	1	
birds	Ardeidae	Bubulcus ibis	antitle a munit	r				x	x		
birds	Cuculidae	Scythrops novaehollandiae	channel-billed cuckoo	c		x		-	x		x
birds	Estrildidae	Lonchura castaneothorax	chestnut-breasted mannikin	c			•				r
birds		u						х	x		
		Orthonyx spaldingii						x	x		
hirds	Orthonychidae Campenhagidae	Orthonyx spaldingii Coracina tenuirostris	chowchilla cicadabird	С		x		x	x x x		x
birds birds	Campephagidae	Coracina tenuirostris	cicadabird	C C		x		x x x	x x x x		x
birds	Campephagidae Accipitridae	Coracina tenuirostris Accipiter cirrocephalus	cicadabird collared sparrowhawk	C C C		x x		x x x x	x x x x x		x x
birds birds	Campephagidae Accipitridae Columbidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera	cicadabird collared sparrowhawk common bronzewing	с с с		x x x	×	x x x x	x x x x x x		x x
birds birds birds	Campephagidae Accipitridae Columbidae Columbidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes	cicadabird collared sparrowhawk common bronzewing crested pigeon	с с с с		x x x x	x	x x x x x x	x x x x x x x		x x
birds birds birds birds	Campephagidae Accipitridae Columbidae Columbidae Psittacidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella	с с с		x x x x	x	x x x x x x x x	x x x x x x x x x x x x x x x x x x x		x x
birds birds birds birds birds	Campephagidae Accipitridae Columbidae Columbidae Psittacidae Sturnidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna	с с с с с		x x x x	x	x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x		x
birds birds birds birds birds birds	Campephagidae Accipitridae Columbidae Columbidae Psittacidae Sturnidae Coraciidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcaptera Ocyphaps lophotes Platycercus elegans Acridatheres tristis Eurystomus orientalis	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird	C C C C C C		x x x x x x x	x	x x x x x x x x x x	x x x x x x x x x x x x		x x
birds birds birds birds birds birds birds	Campephagidae Accipitridae Columbidae Columbidae Psittacidae Sturnidae Coraciidae Meliphagidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalls Myzomela obscura	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater	C C C C C C C C		x x x x x x x x x x	X	x x x x x x x x x x	x x x x x x x x x x x x x x x x	x	x x
birds birds birds birds birds birds birds birds	Campephagidae Accipitridae Columbidae Poittacidae Sturnidae Coraciidae Meliphagidae Rallidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen			x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	X	x x x
birds birds birds birds birds birds birds birds birds	Campephagidae Accipitridae Columbidae Columbidae Psittacidae Sturnidae Coraciidae Meliphagidae Rallidae Artamidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow			x x x x x x x x x	x	x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x
birds birds birds birds birds birds birds birds birds birds birds	Campephagidae Accipitridae Columbidae Desitacidae Sturnidae Coraciidae Meliphagidae Raliidae Artamidae Cuculidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern koel			x x x x x x x x x x x x	X	x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	X	x x x x
birds birds birds birds birds birds birds birds birds birds birds birds	Campephagidae Accipitridae Columbidae Psittacidae Sturridae Coraciidae Meliphagidae Rallidae Artamidae Cuculidae Bovidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridatheres tristis Eurystomus orientalis Myzomelo obscura Gallinula tenebrosa Artamus cyanapterus Eudynamys orientalis Bos taurus	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern koel domestic cattle	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	X	x x x x x x x x x x x x x x x x x x x
birds birds birds birds birds birds birds birds birds birds birds birds birds	Campephagidae Accipitridae Columbidae Ostitacidae Sturridae Coraciidae Meliphagidae Rallidae Artamidae Cuculidae Bovidae Meliphagidae	Coracina tenuirostris Accipiter cirracephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern koel domestic cattle eastern spinebill			x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x x x x
birds birds birds birds birds birds birds birds birds birds birds birds mammals birds mammals	Campephagidae Accipitridae Columbidae Psittacidae Sturnidae Coraciidae Meliphagidae Artamidae Cuculidae Bovidae Meliphagidae Canidae	Coracina tenuirostris Accipiter cirrocephalus Phaps cholcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela abscura Gallinula tenebrosa Artamus cyenopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo)	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky moorhen dusky mooswallow eastern koel domestic cattle eastern spinebill dingo	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x
birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds	Campephagidae Accipitridae Columbidae Columbidae Sturnidae Coraciidae Meliphagidae Rallidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Psophodidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern kol domestic cattle eastern spinebill dingo eastern whipbird	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x
birds birds birds birds birds birds birds birds birds birds birds birds mammals birds mammals	Campephagidae Accipitridae Columbidae Psittacidae Sturnidae Coraciidae Meliphagidae Artamidae Cuculidae Bovidae Meliphagidae Canidae	Coracina tenuirostris Accipiter cirrocephalus Phaps cholcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela abscura Gallinula tenebrosa Artamus cyenopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo)	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky moorhen dusky mooswallow eastern koel domestic cattle eastern spinebill dingo	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x
birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds	Campephagidae Accipitridae Columbidae Columbidae Sturnidae Coraciidae Meliphagidae Rallidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Psophodidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern kol domestic cattle eastern spinebill dingo eastern whipbird	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x	x
birds birds	Campephagidae Accipitridae Columbidae Psittacidae Sturridae Coraciidae Meliphagidae Rallidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Psophodidae Petroicidae	Coracina tenuirostris Accipiter cirracephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzamela obscura Gallinula tenebrosa Artamus cyanapterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky woodswallow eastern kol domestic cattle eastern spinebill dingo eastern whipbird eastern wiljobird eastern yellow robin	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Desitacidae Sturnidae Coraciidae Meliphagidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Psophodidae Petroicidae Casuariidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzamela obscura Gallinula tenebrosa Artamus cyanapterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Dromaius noveehollandiae	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky koneyeater dusky moorhen dusky moodswallow eastern koel domestic cattle eastern spinebill dingo eastern whipbird eastern yellow robin emu	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x	x x x x x x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Desitacidae Sturnidae Coraciidae Meliphagidae Raliidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Petroicidae Petroicidae Casuariidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Doromaius novaehollandiae Gerygone palpebrosa	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky moorhen dusky moorhen dusky moorken dusky woodswallow eastern koel domestic cattle eastern spinebill dingo eastern vellow robin emu fairy gerygone	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x
birds birds birds birds birds birds birds birds birds birds birds birds birds mammals birds	Campephagidae Accipitridae Columbidae Psittacidae Sturnidae Coraciidae Meliphagidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Psophodidae Petroicidae Casuariidae Casuariidae Casuariidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Dromaius novaehollandiae Gerygone palpebrosa Cacomantis flabelliformis	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern kole domestic cattle eastern spinebill dingo eastern whipbird eastern whipbird eastern wellow robin emu fan-tailed cuckoo	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Desitacidae Sturnidae Coraciidae Meliphagidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Petroicidae Casuariidae Acanthizidae Cuculidae Halcyonidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzamela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Dromaius novaehollandiae Gerygone palpebrosa Cacamantis flabelliformis Todiramphus macleayii Ptilotula fusca	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky moothen dusky moothen dusky wooswallow eastern koel domestic cattle eastern spinebill dingo eastern whipbird eastern yellow robin emu fairy gerygone fan-tailed cuckoo forest kingfisher fuscous honeyeater	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x	x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Columbidae Sturnidae Coraciidae Meliphagidae Ralildae Artamidae Cuculidae Bovidae Meliphagidae Canidae Psophodidae Petroicidae Casuariidae Acanthizidae Cuculidae Halcyonidae Halcyonidae Pacponidae Pacphagidae Pachycephalidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalls Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsoltria australis Dromaius novaehollandiae Gerygane palpebrosa Cacoamantis flabelliformis Todiramphus macleoyii Ptilotula fusca Pachycephala pectoralis	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern koel domestic cattle eastern solnebill dingo eastern vellow robin eastern vellow robin emu fan-tailed cuckoo fan-tailed cuckoo forest kingfisher fuscous honeyeater golden whistler	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Psittacidae Sturridae Coraciidae Meliphagidae Artamidae Cuculidae Bovidae Meliphagidae Cuculidae Bovidae Petroicidae Petroicidae Casuariidae Acanthizidae Cuculidae Halcyonidae Halcyonidae Pachycephalidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomelo obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Dromaius novaehollandiae Gerygone palpebrosa Cacomantis flabelliformis Todiramphus macleayii Ptilotula fusca Pachycephola pectoralis Caractius torquatus	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern kole domestic cattle eastern spinebill dingo eastern whipbird eastern whipbird eastern whipbird eastern wilpow robin emu fairy gerygone fan-tailed cuckoo forest kingfisher fuscous honeyeater golden whistler grey butcherbird	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Sturnidae Coraciidae Meliphagidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Petroicidae Casuariidae Acanthizidae Cuculidae Halcyonidae Meliphagidae Acanthizidae Cuculidae Halcyonidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphags lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Dromaius novaehollandiae Gerygone palpebrosa Cacomantis flabelliformis Todiramphus macleayii Ptilotula fusca Pachycephala pectoralis Cracticus torquatus Rhipidura albiscapa	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky moorhen dusky moorhen dusky wooswallow eastern koel domestic cattle eastern spinebill dingo eastern whipbird eastern yellow robin emu fairy gerygone fan-tailed cuckoo forest kingfisher fuscous honeyeater golden whistler grey butcherbird grey fantail	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Desitacidae Sturnidae Coraciidae Meliphagidae Raliidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Petroicidae Casuariidae Acanthizidae Acanthizidae Cuculidae Halcyonidae Meliphagidae Patroynidae Meliphagidae Pachycephalidae Artamidae Rhipiduridae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalls Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Dromaius novaehollandiae Gerygone palpebrosa Cacomantis flabelliformis Todiramphus macleayii Ptilotula fusca Pachycephala pectoralis Cracticus torquatus Rhipidura albiscapa Accipiter novaehollandiae	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern koel domestic cattle eastern spinebill dingo eastern vellow robin eastern vellow robin emu fairy gerygone fan-tailed cuckoo forest kingfisher fuscous honeyeater golden whistler grey butcherbird grey fantail grey fantail	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Psittacidae Sturnidae Coraciidae Meliphagidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Psophodidae Petroicidae Casuariidae Acanthizidae Cuculidae Halcyonidae Halcyonidae Pachycephalidae Pachycephalidae Pachycephalidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridatheres tristis Eurystomus orientalls Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Dromaius novaehollandiae Gerygone palpebrosa Cacomantis flabelliformis Tadiramphus macleayii Ptilotula fusca Pachycephala pectoralis Cracticus torquatus Rhipidura albiscapa Accipiter novaehollandiae Colluricincla harmonica	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern kole domestic cattle eastern spinebill dingo eastern vellow robin emu fairy gerygone fan-tailed cuckoo forest kingfisher fuscous honeyeater golden whistler grey butcherbird grey fantail grey genskawk grey shike-thrush	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Columbidae Sturnidae Coraciidae Meliphagidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Psophodidae Psophodidae Petroicidae Casuariidae Casuariidae Casuariidae Meliphagidae Pachycephalidae Antamidae Rhipiduridae Actaritidae	Coracina tenuirostris Accipiter cirrocephalus Phaps cholcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Dromaius novaehollandiae Gerygone palpebrosa Cacomantis flabelliformis Todiramphus macleayii Ptilotula fusca Pachycephala pectoralis Chatigua albiscapa Acciliter novaehollandiae Colluricinale hormonica Anas gracilis	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern koel domestic cattle eastern spinebill dingo eastern whipbird eastern whipbird eastern yellow robin emu fairy gerygone fan-tailed cuckoo forest kingfisher fuscous honeyeater golden whistler grey bucherbird grey fantail grey goshawk grey shrike-thrush grey ted	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Sturnidae Coraciidae Meliphagidae Raliidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Petpoldidae Petpoldidae Petpoldidae Acanthizidae Cuculidae Halcyonidae Meliphagidae Pachycephalidae Artamidae Rhipiduridae Actamidae Rhipiduridae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae Actamidae	Coracina tenuirostris Accipiter cirrocephalus Phaps chalcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Dromaius novaehollandiae Gerygone palpebrosa Cacomantis flabelliformis Todiramphus macleayii Ptilotula fusca Pachycephala pectoralis Cracticus torquatus Rhipidura albiscapa Accipiter novaehollandiae Coluricincla harmonica Anas gracilis Pamatostomus temporalis	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky moorhen dusky moorhen dusky woodswallow eastern koel domestic cattle eastern spinebill dingo eastern whipbird eastern yellow robin emu fairy gerygone fan-tailed cuckoo forest kingfisher fuscous honeyeater golden whistler grey butcherbird grey shirke-thrush grey shirke-thrush grey teal grey-crowned babbler	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x
birds birds	Campephagidae Accipitridae Columbidae Columbidae Sturnidae Coraciidae Meliphagidae Artamidae Cuculidae Bovidae Meliphagidae Canidae Psophodidae Petroicidae Casuariidae Casuariidae Casuariidae Acanthizidae Cuculidae Meliphagidae Pachycephalidae Antamidae Antamidae	Coracina tenuirostris Accipiter cirrocephalus Phaps cholcoptera Ocyphaps lophotes Platycercus elegans Acridotheres tristis Eurystomus orientalis Myzomela obscura Gallinula tenebrosa Artamus cyanopterus Eudynamys orientalis Bos taurus Acanthorhynchus tenuirostris Canis familiaris (dingo) Psophodes olivaceus Eopsaltria australis Dromaius novaehollandiae Gerygone palpebrosa Cacomantis flabelliformis Todiramphus macleayii Ptilotula fusca Pachycephala pectoralis Chalipidura albiscapa Acciliter novaehollandiae Colluricinale hormonica Anas gracilis	cicadabird collared sparrowhawk common bronzewing crested pigeon crimson rosella common myna dollarbird dusky honeyeater dusky moorhen dusky woodswallow eastern koel domestic cattle eastern spinebill dingo eastern whipbird eastern whipbird eastern yellow robin emu fairy gerygone fan-tailed cuckoo forest kingfisher fuscous honeyeater golden whistler grey bucherbird grey fantail grey goshawk grey shrike-thrush grey ted	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x

Chalumbin Wind Farm - EAR Fauna Species List (December 2021)

Class	Family	Scientific name	Common name	NC Act	EPBC Act	Jan-21	Mar-21	Jun-21	Oct-21	BUS Jun-21	BUS Oct-21
birds	Petroicidae	Microeca fascinans	jacky winter	С				x	х		х
birds	Acanthizidae	Sericornis magnirostra	large-billed scrubwren	С					х		
birds	Caprimulgidae	Caprimulgus macrurus	Large-tailed Nightjar	С		х	х				
birds	Halcyonidae	Dacelo novaeguineae	laughing kookaburra	С		х	х	х	x	х	х
birds	Monarchidae	Myiagra rubecula	leaden flycatcher	С		х		x	x	x	х
birds	Petroicidae	Microeca flavigaster	lemon-bellied flycatcher	С					x		
birds	Meliphagidae	Meliphaga lewinii	Lewin's honeyeater	С		х		x	x	х	x
birds	Meliphagidae	Philemon citreogularis	little friarbird	С		х			х	х	х
birds	Psittacidae	Parvipsitta pusilla	little lorikeet	С		х		х	х	х	
birds	Phalacrocoracidae	Microcarbo melanoleucos	little pied cormorant	С		х			х		
birds	Apodidae	Apus pacificus	fork-tailed swift	SL	М	х					
birds	Pachycephalidae	Colluricincla megarhyncha	little shrike-thrush	C				x	x	x	x
birds	Artamidae	Artamus minor	little woodswallow	C					x		
mammals	Dasyuridae	Antechinus godmani	Atherton antechinus	C		x					
birds	Meliphagidae	Xanthotis macleayanus	Macleay's honeyeater	C				x			
birds	Monarchidae	Grallina cyanoleuca	magpie-lark	C		x		x	x	x	
birds	Charadriidae	Vanellus miles	masked lapwing	c		x		x	x	~	
birds	Artamidae	Artamus personatus	masked woodswallow	c		^		^	×		
birds	Nectariniidae	Dicaeum hirundinaceum	mistletoebird	c		v		v	v	v	
birds	Falconidae	Falco cenchroides	nankeen kestrel	c		^		^	×	×	v
birds	Meliphagidae	Philemon corniculatus	noisy friarbird	c		v		v	^ v	^ v	^ v
birds	Meliphagidae	Manorina melanocephala	noisy miner	c		~		~	~	~	~
birds	Oriolidae		olive-backed oriole	c		x		x	x	x	x
		Oriolus sagittatus		c		x			x		x
birds	Megapodiidae	Megapodius reinwardt	orange-footed scrubfowl	-		x	x				
mammals	Emballonuridae	Saccolaimus flaviventris	Yellow-bellied Sheathtail Bat	C		x					
birds birds	Accipitridae	Aviceda subcristata	Pacific baza	C		^ v		2	^ v		^
birds	Anatidae	Anas superciliosa	Pacific black duck	C		x		x	x		├────┤
birds	Turnicidae	Turnix varius	painted button-quail	C				x			
birds	Psittacidae	Platycercus adscitus	pale-headed rosella	C		x	x	x	x	x	x
birds	Columbidae	Geopelia striata	peaceful dove	C		x		х	x	x	x
birds	Falconidae	Falco peregrinus	peregrine falcon	C		х			х		
birds	Cuculidae	Centropus phasianinus	pheasant coucal	C		x	x	x	x	x	x
birds	Artamidae	Cracticus nigrogularis	pied butcherbird	С		х		х	х	х	х
birds	Artamidae	Strepera graculina	pied currawong	C		х	х	х	х	х	x
birds	Anatidae	Malacorhynchus membranaceus	pink-eared duck	С				х			
birds	Anatidae	Dendrocygna eytoni	plumed whistling-duck	С				х			
birds	Rallidae	Porphyrio porphyrio	purple swamphen	С					х		
birds	Meropidae	Merops ornatus	rainbow bee-eater	С		х		х	x	х	x
birds	Psittacidae	Trichoglossus haematodus	rainbow lorikeet	С		х		х	x	х	x
birds	Maluridae	Malurus melanocephalus	red-backed fairy-wren	С		x		x	x	х	x
birds	Estrildidae	Neochmia temporalis	red-browed finch	С		х		х	х	х	х
birds	Cacatuidae	Calyptorhynchus banksii	red-tailed black-cockatoo	С		х		х	х	х	х
birds	Psittacidae	Aprosmictus erythropterus	red-winged parrot	С		х		х	х		
birds	Monarchidae	Myiagra inquieta	restless flycatcher	С							х
birds	Pachycephalidae	Pachycephala rufiventris	rufous whistler	С		х		х	x	х	х
birds	Meliphagidae	Conopophila rufogularis	rufous-throated honeyeater	С					x		
birds	Halevonidae		and a first California								
	Halcyonidae	Todiramphus sanctus	sacred kingfisher	С		х			х		
birds	Psittacidae	Todiramphus sanctus Trichoglossus chlorolepidotus	sacred kingtisher scaly-breasted lorikeet	C C		x x		x	x x	x	x
birds		Trichoglossus chlorolepidotus	scaly-breasted lorikeet		V	x x	x	x	x x	x	x
	Psittacidae		scaly-breasted lorikeet Magnificent Broodfrog	С	V	x x x	x	x	x x x	x	x
birds amphibians	Psittacidae Myobatrachidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater	C V	V	x x x	x	x	x x x x x	x x	x x
birds amphibians birds birds	Psittacidae Myobatrachidae Meliphagidae Cuculidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo	C V C	V	x x x x x	x	x	x x x x x	x	x x
birds amphibians birds	Psittacidae Myobatrachidae Meliphagidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye	C V C C	V	x x x x x x x x x x x x x x x x x x x	x	x	x x x x x	x x x	x x
birds amphibians birds birds birds	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo	C V C C C	V	x x x x	x	x x	x x x x	x x x	x x
birds amphibians birds birds birds birds birds	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook	C V C C C	V 	x x x x x	x	x x 	x x x x	x x x	x x
birds amphibians birds birds birds birds	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaceseelandiae	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies)	C V C C C C C		x x x x x x x x x x x	x	x x x	x x x x x x x	x x x x	x x x x x x x
birds amphibians birds birds birds birds birds birds birds birds	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo	C V C C C C V C		x x x x x x x x x x x x x x x x x x x	x	x x x	x x x x x x x x x x x x x x x x x x x	x x x	x x x x x x x x x x x x x x x
birds amphibians birds birds birds birds birds birds birds birds birds	Psittacidae Myobatrachidae Meliphagidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	X	x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds birds birds birds birds birds birds birds birds birds	Psittacidae Myobatrachidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaeseelandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x	x x x x x x x x x x x x x x x x x x	x x x	x x x
birds amphibians birds birds birds birds birds birds birds birds birds birds birds birds	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Strigidae Tytonidae Dicruridae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Aliuroedus maculosus Eurostopodus argus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted atbird spotted atbird spotted nightjar	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x	x	x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x
birds amphibians birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Dicruridae Ptilonorhynchidae Eurostopodidae Pardalotidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted pardalote	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x
birds amphibians birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds	Psittacidae Myobatrachidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzamela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaeseelandiae kimberli Dicrurus bracteatus Acanthogenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted najadote squatter pigeon (northern subspecies)	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds	Psittacidae Meliphagidae Cucuidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Threskiornithidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Aliuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x
birds amphibians birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds birds	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Dicruridae Dicruridae Dicruridae Pitionorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Aliuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis stravenecked ibis	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x
birds amphibians birds	Psittacidae Myobatrachidae Cuculidae Cuculidae Meliphagidae Strigidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Cacatuidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicallis Pardalotus striatus Cacatua galerita	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted actibird spotted nightjar spotted nightjar spotted nightjar spotted nightjar spotted nightjar spotted nightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis striated pardalote sulphur-crested cockatoo	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaebellandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardolotus striatus Cacatua galerita Felis catus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted anightjar spotted anightjar spotted anightjar spotted apardalote squatter pigeon (northern subspecies) straw-necked ibis strated pardalote suiplpur-crested cockatoo cat	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x	x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Feidae Podargidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Aliuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Pelis catus Podargus strigoides	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted arbird spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis striated pardalote suiphur-crested cockatoo cat	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Cedargidae Columbidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted radiate spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis strated pardalote sulphur-crested cockatoo cat tawny frogmouth topknot pigeon	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Felidae Podargidae Columbidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaeseelandiae kimberli Dicrurus bracteatus Acanthogenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicallis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted nightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis straide pardalote sulphur-crested cockatoo cat tawny frogmouth topknot pigeon aglie wallaby	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Dicruridae Pelionorhynchidae Eurostopodidae Pardalotidae Columbidae Cacatuidae Felidae Podargidae Columbidae Columbidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Gavicalis virescens Ninox novaeseelandiae Tyto novaeseelandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Alluraedus maculosus Eurostopodus argus Pardolotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholoimus antarcticus Notamacropus agilis Corvus orru	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted ardalote spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis striated pardalote sulphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Strigidae Tytonidae Dicruridae Dicruridae Pilonorhynchidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Corvidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted atibird spotted atibird spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis striated pardalote suiphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Cuculidae Cuculidae Meliphagidae Strigidae Dicruridae Meliphagidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Macropodidae Macropodidae Macropodidae Neosittidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzonela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lophalaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted nightjar spotted nightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis straide pardalote sulphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Cacatuidae Columbidae Podargidae Columbidae Macropodidae Corvidae Hirundinidae Neosittidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaeseelandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted nightjar spotted arbird spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis straited pardalote sulphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied titler	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Mejohagidae Cucuidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Columbidae Cacatuidae Felidae Podargidae Columbidae Columbidae Colargidae Columbidae Colargidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Corvidae Hirundinidae Neositidae Campephagidae Paradisaeidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Gavicalis virescens Tyto novaeseelandiae Tyto novaeseelandiae Tyto novaeseelandiae Tyto novaeseelandiae Minox novaeseelandiae Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted ardalote spotted pardalote squatter pigeon (northern subspecies) striated pardalote sulphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella Varied triller Victoria's riflebird	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Cuculidae Cuculidae Meliphagidae Strigidae Dicruridae Meliphagidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Macropodidae Columidae Macropodidae Columidae Neosittidae Carappingidae Paradiseidae Accipitridae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzonela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus gunctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striaus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted actibird spotted nightjar spotted nafadlote squatter pigeon (northern subspecies) straw-necked ibis striated pardalote suphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied triller Victoria's riflebird wedge-tailed eagle	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Cuculidae Cuculidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Columbidae Felidae Podargidae Columbidae Macropodidae Corvidae Hirundinidae Neosittidae Campephagidae Pardaisaeidae Accipitridae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaebellandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicornis brevirostris	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted nightjar spotted nightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis striated pardalote sujlphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied triller Victoria's riflebird wedge-tailed eagle weebill	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Macropodidae Corvidae Hirundinidae Nacropodidae Corvidae Hirundinidae Pardalseidae Accipitridae Accatiridae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaeseelandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuraedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila oudax Smicromis brevirostris Haliastur sphenurus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted ardalote supotted pardalote supatter juegon (northern subspecies) straw-necked ibis striated pardalote sulphur-crested cockatoo cat tawny fogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied titlel victoria's riflebird wedgei-tailed eagle weebill whistling kite	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae Dicruridae Meliphagidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Cacatuidae Cacatuidae Columbidae Macropodidae Corvidae Hirundinidae Neosittidae Carpephagidae Accipitridae Accipitridae Campephagidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzonela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus punctatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicronis brevirostris Haliostur spienurus Coracina papuensis	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spotted pardalote spotted nightjar spotted nightjar spotted nadalote squatter pigeon (northern subspecies) straw-necked ibis striated pardalote suphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied triller Victoria's riflebird wedge-tailed eagle weebill whitet-bellied cuckoo-shrike	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Cuculidae Cuculidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Columbidae Felidae Podargidae Columbidae Macropodidae Corvidae Hirundinidae Macropodidae Caratuidae Accipitridae Campephagidae Artamidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaeseelandiae kimberli Dicrurus bracteatus Acanthogenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicallis Pardalotus striatus Geophaps scripta peninsulae Threskiornis spinicallis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicromis brevirostris Haliastur sphenurus Corvacina papuensis Artamus leucorynchus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spotted catbird spotted hightjar spotted hightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis striated pardalote suplpur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied triller Victoria's riflebird wedge-tailed eagle weebill white-breasted woodswallow	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Macropodidae Corvidae Hirundinidae Corvidae Hirundinidae Carategiae Campephagidae Accipitridae Cacatuidae Accipitridae Accipitridae Campephagidae Patraiseidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaebellandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus purctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicrornis brevirostris Haliastur sphenurus Coracina papuensis Poecilodryas superciliosa	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted anghtjar spotted anghtjar strate spotted spotted anghtjar spotted anghtjar spotte	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Mejohagidae Cucuidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Columbidae Colastidae Feidae Podargidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Accipitridae Accipitridae Campephagidae Paradisaeidae Accipitridae Campephagidae Paradisaeidae Accipitridae Campephagidae Paradisaeidae Accipitridae Campephagidae Paradisaeidae Accipitridae Campephagidae Paradisaeidae Accipitridae Campephagidae Paradisaeidae Accipitridae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Tyto novaeseelandiae Tyto novaeseelandiae Tyto novaeseelandiae Tyto novaeseelandiae Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicromis brevirostris Haliastur sphenurus Coracina papuensis Artamus leucorynchus Poecilodryas superciliosa Phylidonyris niger	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted ardalote spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis straited pardalote sulphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied riller Victoria's riflebird wedge-tailed eagle weebill white-bellied cuckoo-shrike white-breasted woodswallow white-browed robin	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds	Psittacidae Myobatrachidae Cuculidae Cuculidae Meliphagidae Strigidae Dicruridae Meliphagidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Feildae Podargidae Columbidae Macropodidae Columbidae Macropodidae Columbidae Macropodidae Columbidae Macropodidae Columbidae Macropodidae Cacatuidae Paradisaeidae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Actipitridae Actapitridae Actapitridae Actapitridae Actapitridae Actapitridae Actapitridae Actapitridae Actapitridae Actapitridae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus gunctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus struicus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus struisus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicronis brevirostris Haliastur sphenurus Corracina papuensis Artamus leucorynchus Poecilodryas superciliosa Phylidonyris niger Egretta novaehollandiae	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spangled drongo spotted najhtjar spotted najhtjar spotted najhtjar spotted najhtjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis straided pardalote suplaru-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied triller Victoria's riflebird wedge-tailed eagle weebill whistling kite white-breasted woodswallow white-breasted honeyeater white-checked honeyeater	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Meliphagidae Cuculidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Columbidae Macropodidae Columbidae Hirundinidae Hirundinidae Macropodidae Caratuidae Petroicidae Meliphagidae Ardeidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicrornis brevirostris Haliastur sphenurus Coracian gapuensis Artamus leucorynchus Poecilodryas superciliosa Phylidonyris niger Egretta novaehollandiae Ardea pacifica	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted hightjar spotted catbird spotted hightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis straited pardalote squatter pigeon (northern subspecies) straw-necked ibis straited pardalote squatter pigeon (northern subspecies) straw-necked ibis straited pardalote squatter pigeon cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied sittella varied sittella varied sittella wedge-tailed eagle weebill white-bellied cuckoo-shrike white-beasted woodswallow white-browed robin white-necked honeyeater white-necked honeyeater	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds	Psittacidae Mejohagidae Cucuidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Falidae Podargidae Columbidae Macropodidae Corvidae Hirundinidae Nacropodidae Corvidae Hirundinidae Pardalseidae Accipitridae Accipitridae Acanthizidae Artamidae Petroicidae Meliphagidae Ardelidae Ardelidae Ardelidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila oudax Smicromis brevirostris Haliastur sphenurus Coracina papuensis Artamus leucorynchus Poecilodryas superciliosa Phylidonyris niger Egretta novaehollandiae Ardea pacifica	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted aridalote spotted pardalote supatter pigen (northern subspecies) straw-necked ibis striated pardalote supatter pigen (northern subspecies) straw-necked ibis striated pardalote suplatur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied titlela varied titlel wistling kite white-bellied cuckoo-shrike white-breasted woodswallow white-browed robin white-cheeked honeyeater white-cheeked honeyeater white-cheeked honeyeater white-throated gerygone	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Cuculidae Cuculidae Timaliidae Meliphagidae Strigidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Columbidae Columbidae Macropodidae Corvidae Mirundinidae Neosittidae Corvidae Mirundinidae Neosittidae Accipitridae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus punctatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicronis brevirostris Haliastur sphenurus Coracina papuensis Artamus leucorynchus Poecilodryas superciliosa Phyliaonyris niger Egretta olivaea Melithreptus albogularis	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spotted pardalote spotted nightjar spotted nafatote squatter pigeon (northern subspecies) straw-necked ibis striated pardalote squatter pigeon (northern subspecies) straw-necked ibis striated pardalote suphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied stitella varied stitella wedge-tailed eagle weebill whistling kite white-breasted woodswallow white-browed robin white-horeked honeyeater white-horeated gerygone white-throated honeyeater	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Meliphagidae Cuculidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskionithidae Pardalotidae Columbidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Macropodidae Corvidae Hirundinidae Nacropodidae Cardagidae Cardagidae Cardagidae Cardagidae Cardagidae Cardagidae Cardagidae Cardagidae Cardagidae Cardagidae Accipitridae Campephagidae Petroicidae Artanidae Petroicidae Ardeidae Ardeidae Acathizidae Acathizidae Acathizidae Acathizidae Ardeidae Acathizidae Acathizidae Acathizidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaeseelandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Pelis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicrornis brevirostris Haliastur sphenurus Corracina papuensis Artamus leucorynchus Phylidonyris niger Egretta novaehollandiae Ardea pacifica Gergone olivacea Melithreptus albogularis Eurostopodus mystacalis	scaly-breasted lorikeet Magnificent Broodfrog scalet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spotted catbird spotted nightjar spotted nightjar spotted nightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis straide pardalote sulphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied triller Victoria's riflebird wedge-tailed eagle weebill white-browed robin white-browed robin white-heeked honeyeater white-throated gerygone white-throated honeyeater white-throated honeyeater white-throated noneyeater white-throated noneyeater white-throated noneyeater	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Mejohagidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Macropodidae Corvidae Hirundinidae Corvidae Hirundinidae Corvidae Columbidae Corvidae Acarthizidae Cacatuidae Cartaidae Cartaidae Accipitrid	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaebollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Gacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicrornis brevirostris Haliastur sphenurus Coracina papuensis Artamus leucorynchus Poecilodryas superciliosa Phylidonyris niger Egretta novaehollandiae Ardea pacifica Gerygone olivacea Meilthreptus albogularis Eurostopodus mystacalis Osphranter robustus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted ardidte squatter pigeon (northern subspecies) straw-necked ibis straited pardalote suphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied triller Victoria's riflebird wedge-tailed eagle weebill whistling kite white-breasted woodswallow white-browed robin white-checked honeyeater white-throated noneyeater white-throated noneyeater white-throated nightjar common wallaroo	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Cuculidae Cuculidae Timaliidae Meliphagidae Strigidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Cacatuidae Cacatuidae Cacatuidae Cacatuidae Cacatuidae Cacatuidae Cacatuidae Cacatuidae Cacatuidae Columbidae Macropodidae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Actoidae Arteidae Ardeidae Ardeidae Acanthizidae Meliphagidae Eurostopodidae Rhipiduridae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzonela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus punctatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Laloge leucomela Ptiloris victoriae Aquila audax Smicronis brevirostris Haliastur sphenurus Coracina gapuensis Artamus leucorynchus Poecilodryas superciliosa Phylidonyris niger Egretta novaehollandiae Ardea pacifica Gerygone olivacea Rhipidura leucophrys	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spotted pardatote spotted neightjar spotted neightjar spotted pardatote squatter pigeon (northern subspecies) straw-necked ibis striated pardatote suguatter pigeon (northern subspecies) straw-necked ibis striated pardatote suphur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied sittella wedge-tailed eagle weebill whistling kite white-breasted woodswallow white-breasted woodswallow white-breasted honeyeater white-hored honeyeater white-throated honeyeater white-throated honeyeater white-throated disptiar common wallaroo willie wagtail	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	X	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Cuculidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Macropodidae Columbidae Macropodidae Paralaitidae Neosittidae Accipitridae Accipitridae Accipitridae Accipitridae Actopitridae Ardeidae Ardeidae Ardeidae Acathizidae Meliphagidae Eurostopodidae Macropodidae Macropodidae Meliphagidae Eurostopodidae Macropodidae Macropodidae Macropodidae Macropodidae Macropodidae Macropodidae Macropodidae Macropodidae Macropodidae Macropodidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzamela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthogenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicallis Pardalotus striatus Geophaps scripta peninsulae Threskiornis spinicallis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicromis brevirostris Haliastur sphenurus Corracina papuensis Artamus leucarynchus Poeziladryas superciliosa Phylidonyris niger Egretta novaehollandiae Ardea pacifica Gerygone olivaceal Melithreptus albogularis Eurostopodus mystacalis Osphranter robustus Rhipidura leucophrys Macropus giganteus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spotted catbird spotted nightjar spotted nightjar spotted nightjar spotted nightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis straide pardalote suplour-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied triller Victoria's riflebird wedge-tailed eagle weebill white-blied cuckoo-shrike white-breasted woodswallow white-breasted honeyeater white-forwed robin white-checked honeyeater white-throated gergone white-throated honeyeater white-throated honeyeater white-throated nightjar common wallaroo wille wagtail eastern grey kangaroo	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Meliphagidae Cuculidae Timaliidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskionithidae Pardalotidae Cacatuidae Cacatuidae Cacatuidae Cacatuidae Cacatuidae Columbidae Macropodidae Corvidae Hirundinidae Nacropodidae Carvidae Accipitridae Campephagidae Accipitridae Acathizidae Acathizidae Acathizidae Actade Acathizidae Actade Acathizidae Actade Acathizidae Actade Acathizidae Actade Acathizidae Acathizidae Acathizidae Acathizidae Acathizidae Meliphagidae Macropodidae Macropodidae Macropodidae Macropodidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicromis brevirostris Haliastur sphenurus Coracina gapuensis Artamus leucorynchus Poecilodryas superciliosa Phylidonyris niger Egretta novaehollandiae Ardea pacifica Gerygone olivacea Melithreptus albogularis Eurostopodus mystacalis Osphranter robustus Rhipidura leucophrys Macropus giganteus Acanthiza nana	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted anghtjar spotted anghtjar spotted anghtjar spotted anghtjar spotted anghtjar spotted anghtjar spotted catbird spotted nightjar spotted anghtjar spotted catbird spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis straited pardalote suplpur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied stitella varied stitella varied stitella varied stitella weebill white-bellied cuckoo-shrike white-beasted woodswallow white-browed robin white-cheeked honeyeater white-throated honeyeater white-throated honeyeater white-throated honeyeater white-throated nightjar common wallaroo wille waggai eastern grey kangaroo	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Mytobatrachidae Cuculidae Cuculidae Timaliidae Meliphagidae Strigidae Dicruridae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae Corvidae Macropodidae Accipitridae Accipitridae Campephagidae Paradiseidae Accipitridae Campephagidae Paradiseidae Accipitridae Campephagidae Paradiseidae Accipitridae Campephagidae Paradiseidae Accipitridae Campephagidae Paradiseidae Accipitridae Campephagidae Ardeidae Ardeidae Ardeidae Ardeidae Acanthizidae Macropodidae Rhipiduridae Nacropodidae Rhipiduridae Macropodidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzamela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthogenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicallis Pardalotus striatus Geophaps scripta peninsulae Threskiornis spinicallis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicromis brevirostris Haliastur sphenurus Corracina papuensis Artamus leucarynchus Poeziladryas superciliosa Phylidonyris niger Egretta novaehollandiae Ardea pacifica Gerygone olivaceal Melithreptus albogularis Eurostopodus mystacalis Osphranter robustus Rhipidura leucophrys Macropus giganteus	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spotted catbird spotted nightjar spotted nightjar spotted nightjar spotted nightjar spotted pardalote squatter pigeon (northern subspecies) straw-necked ibis straide pardalote suplour-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied triller Victoria's riflebird wedge-tailed eagle weebill white-blied cuckoo-shrike white-breasted woodswallow white-breasted honeyeater white-forwed robin white-checked honeyeater white-throated gergone white-throated honeyeater white-throated honeyeater white-throated nightjar common wallaroo wille wagtail eastern grey kangaroo	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	X	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Cuculidae Cuculidae Timaliidae Meliphagidae Strigidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Macropodidae Columbidae Macropodidae Columbidae Macropodidae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Acanthizidae Ardeidae Ardeidae Macropodidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus gunctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicrornis brevirostris Haliastur sphenurus Coracina papuensis Artamus leucorynchus Poeciladryas superciliosa Phylidonyris niger Egretta novaehollandiae Ardea pacifica Gerygone olivacea Melithreptus albogularis Eurostopodus mystacalis Osphanter robustus Rhipidura leucophrys Macnoerirhynchus flaviventer Caligavis chrysops	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spangled drongo spotted najhtjar spotted najhtjar spotted najhtjar spotted najhtjar spotted pardalote squatter pigeon (northern subspecies) strai-necked ibis straide pardalote suplaru-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied sittella varied sittella varied sittella varied sittella weige-tailed eagle weebill whistling kite white-breasted woodswallow white-breasted honeyeater white-throated honeyeater white-throated honeyeater white-throated nongevent white-throated honeyeater white-throated nongevent white-throated nongevent whether hore throated nongevent hore throated nongevent hore throated nongevent hore throated nongevent hore throated nongev	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Meliphagidae Cuculidae Meliphagidae Strigidae Tytonidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Macropodidae Corvidae Hirundinidae Nacospodidae Carmephagidae Paradiseidae Accipitridae Campephagidae Pardaiseidae Accipitridae Campephagidae Petroicidae Neliphagidae Ardeidae Ardeidae Ardeidae Ardeidae Ardeidae Ardeidae Acathizidae Meliphagidae Nacropodidae Rhipduridae Macropodidae Acanthizidae Macropodidae Acanthizidae Macropodidae Acanthizidae Macropodidae Macropodidae Macropodidae Macropodidae Macropodidae Macropodidae Meliphagidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus punctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Pelis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicrornis brevirostris Haliastur sphenurus Coracian gapuensis Artamus leucorynchus Poecilodryas superciliosa Phylidonyris niger Egretta novaehollandiae Ardea pacifica Gergopo olivacea Melithreptus albogularis Eurostopodus mystacalis Cospiansi flaviventer Collagvis chrysops Meliphaga notata	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spiny-cheeked honeyeater spotted catbird spotted nightjar spotted catbird spotted nightjar spotted catbird spotted nightjar spotted catbird supter pigeon (northern subspecies) straw-necked ibis straited pardalote suplpur-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied triller Victoria's riflebird wedge-tailed eagle weebill white-browed robin white-browed robin white-browed robin white-browed robin white-horated honeyeater white-throated honeyeater white-throated nightjar common wallaroo wille wagtail eastern grey kangaroo yellow thornbill yellow-breasted honeyeater yellow-spotted honeyeater yellow-spotted honeyeater	C C C C C C C C C C C C C C C C C C C		X X X X X X X X X X X X X X X X X X X	x	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x
birds amphibians birds b	Psittacidae Myobatrachidae Cuculidae Cuculidae Timaliidae Meliphagidae Strigidae Dicruridae Meliphagidae Ptilonorhynchidae Eurostopodidae Pardalotidae Columbidae Threskiornithidae Pardalotidae Cacatuidae Felidae Podargidae Columbidae Macropodidae Columbidae Macropodidae Columbidae Macropodidae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Accipitridae Acanthizidae Ardeidae Ardeidae Macropodidae	Trichoglossus chlorolepidotus Pseudophryne covacevichae Myzomela sanguinolenta Chalcites lucidus Zosterops lateralis Gavicalis virescens Ninox novaeseelandiae Tyto novaehollandiae kimberli Dicrurus bracteatus Acanthagenys rufogularis Ailuroedus maculosus Eurostopodus argus Pardalotus gunctatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Geophaps scripta peninsulae Threskiornis spinicollis Pardalotus striatus Cacatua galerita Felis catus Podargus strigoides Lopholaimus antarcticus Notamacropus agilis Corvus orru Petrochelidon nigricans Daphoenositta chrysoptera Lalage leucomela Ptiloris victoriae Aquila audax Smicrornis brevirostris Haliastur sphenurus Coracina papuensis Artamus leucorynchus Poeciladryas superciliosa Phylidonyris niger Egretta novaehollandiae Ardea pacifica Gerygone olivacea Melithreptus albogularis Eurostopodus mystacalis Osphanter robustus Rhipidura leucophrys Macnoerirhynchus flaviventer Caligavis chrysops	scaly-breasted lorikeet Magnificent Broodfrog scarlet honeyeater shining bronze-cuckoo silvereye singing honeyeater Southern boobook masked owl (northern subspecies) spangled drongo spangled drongo spotted najhtjar spotted najhtjar spotted najhtjar spotted najhtjar spotted pardalote squatter pigeon (northern subspecies) strai-necked ibis straide pardalote suplaru-crested cockatoo cat tawny frogmouth topknot pigeon agile wallaby Torresian crow tree martin varied sittella varied sittella varied sittella varied sittella varied sittella weige-tailed eagle weebill whistling kite white-breasted woodswallow white-breasted honeyeater white-throated honeyeater white-throated honeyeater white-throated nongevent white-throated honeyeater white-throated nongevent white-throated nongevent whether hore throated nongevent hore throated nongevent hore throated nongevent hore throated nongevent hore throated nongev	C C C C C C C C C C C C C C C C C C C		x x x x x x x x x x x x x x x x x x x	X	x x x x x x x x x x x x x x x x x x x	x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x

Chalumbin Wind Farm - EAR Fauna Species List (December 2021)

Class	Family	Scientific name	Common name	NC Act	EPBC Act	Jan-21	Mar-21	Jun-21	Oct-21	BUS Jun-21	BUS Oct-21
birds	Meliphagidae	Manorina flavigula	yellow-throated miner	С					x	х	
mammals	Macropodidae	Petrogale mareeba	Mareeba rock wallaby	С		х]	х	L		
mammals	Macropodidae	Dendrolagus lumholtzi	Lumholtz tree-kangaroo	NT]	х	L	ļ	l
mammals	Macropodidae	Thylogale stigmatica	Red-legged pademelon	С				x	L		L
mammals	Macropodidae	Notamacropus rufogriseus	red-necked wallaby	С				x	 	L	l
mammals	Macropodidae	Wallabia bicolor	swamp wallaby	С		x	x	x	x	L	l
mammals	Macropodidae	Notamacropus parryi	whiptail wallaby	C		x	/	x	 	l	ł
birds	Rhipiduridae	Rhipidura rufifrons	rufous fantail	SL	М			x	×	l	l
mammals	Miniopteridae	Miniopterus orianae oceanensis	Eastern Bentwing Bat	С		x			 	l	l
mammals	Miniopteridae Molossidae	Miniopterus australis Orimons ridoi	Little Bentwing Bat Eastern Freetail Bat	C C		x	┟────┦	x	 		
mammals birds	Monarchidae	Ozimops ridei Myiagra cyanoleuca	satin flycatcher	SL	м	*	┟─────┤				ł
mammals	Molossidae	Ozimops lumsdenae	Northern Freetail Bat	C	IVI	~	┟────┤		^		ł
mammals	Molossidae	Austronomus australis	White-striped Mastiff Bat	c		×	┟─────┤		 	l	l
mammals	Muridae	Mus musculus	house mouse	C		x					
mammals	Muridae	Hydromys chyrsogaster	water rat	С		x		x	x		
mammals	Ornithorhynchidae	Ornithorhynchus anatinus	platypus	SL		x		~	x		
mammals	Peramelidae	Perameles nasuta	long-nosed bandicoot	C		x		x	x	-	
mammals	Peramelidae	Isoodon macrourus	northern brown bandicoot	C		x	x	x		-	
reptiles	Elapidae	Pseudechis porphyriacus	red-bellied black snake	C					x	-	
mammals	Petauridae	Petaurus minor	northern greater glider	V	V	x	x	х	x	-	
mammals	Petauridae	Petaurus notatus	Krefft's glider	C		x	[
mammals	Petauridae	Petaurus norfolcensis	squirrel glider	č		х	ا ا				
mammals	Petauridae	Petaurus breviceps	Sugar Glider	C			x				
mammals	Petauridae	Petaurus australis	Yellow-bellied Glider	Ē	E		x				
mammals	Phalangeridae	Trichosurus vulpecula	common brushtail possum	c		х	x	х	х		
mammals	Potoroidae	Aepyprymnus rufescens	rufous bettong	C		x	x	х	х		
birds	Monarchidae	Symposiarchus trivirgatus	spectacled monarch	SL	М		1		х		
mammals	Pseudocheiridae	Pseudocheirus peregrinus	common ringtail possum	С		x	x	х			
mammals	Pteropodidae	Syconycteris australis	common blossom bat	С			1	х			
mammals	Pteropodidae	Pteropus scapulatus	little red flying-fox	С		х	í l		х		
mammals	Rhinolophidae	Rhinolophus megaphyllus	Eastern Horseshoe Bat	С		x		х			
mammals	Suidae	Sus scrofa	pig			x	x				
mammals	Tachyglossidae	Tachyglossus aculeatus	short-beaked echidna	SL		х	х		x		
mammals	Vespertilionidae	Scotorepens sanborni	Northern Broad-nosed Bat	С		х	l l				
mammals	Vespertilionidae	Vespadelus pumilus	Eastern Forest Bat	С		х	l l	х			
mammals	Vespertilionidae	Chalinolobus gouldii	Gould's Wattled Bat	С		х	[ľ			
mammals	Vespertilionidae	Chalinolobus nigrogriseus	Hoary Wattled Bat	С		х	l l				
reptiles	Scincidae	Saproscincus basiliscus	Basilisk shadeskink	С			х	ľ			
reptiles	Agamidae	Pogona barbata	bearded dragon	С		х					
reptiles	Varanidae	Varanus tristis	black-tailed monitor	С		х	х				
reptiles	Scincidae	Carlia rostralis	black-throated rainbow-skink	С		х		х			
reptiles	Agamidae	Hypsilurus boydii	Boyd's Forest Dragon	С			х				
amphibians	Hylidae	Litoria serrata	Tapping green-eyed Tree Frog	V			х				
reptiles	Colubridae	Boiga irregularis	brown tree snake	С					x		
reptiles	Gekkonidae	Heteronotia binoei	Bynoe's gecko	С		x		х			
reptiles	Boidae	Morelia spilota	carpet python	С		x					
reptiles	Carphodactylidae	Carphodactylus laevis	Chameleon Gecko	С			x		l		
reptiles	Scincidae	Menetia greyii	common dwarf skink	С		x					
mammals	Vespertilionidae	Nyctophilus bifax	Northern long-eared bat	С		x		х			
reptiles	Scincidae	Ctenotus taeniolatus	copper-tailed skink	С		х	<u>ا</u> ا		<u> </u>		
reptiles	Gekkonidae	Gehyra dubia	dubious dtella	С		x			Ļ		
reptiles	Elapidae	Pseudonaja textilis	eastern brown snake	С		x	ļ!	х	x	ļ!	ļ
reptiles	Scincidae	Lerista fragilis	eastern mulch slider	С		х	x	ļ!	Ļ	ļ!	ļ
reptiles	Scincidae	Ctenotus robustus	eastern striped skink	С			ļ		x		ļ
reptiles	Agamidae	Intellagama lesueurii	eastern water dragon	С		х	ļ	х	x		ļ
reptiles	Scincidae	Eulamprus quoyii	Eastern water skink	C		х	ļ		x		ļ
reptiles	Scincidae	Morethia taeniopleura	fire-tailed skink	С			ļ		x		ļ
reptiles	Colubridae	Tropidonophis mairii	freshwater snake	С		х	ļ		 		
reptiles	Colubridae	Dendrelaphis punctulatus	green tree snake	C		х	x	х	└────	ļ	ļ
reptiles	Colubridae	Tropidonophis mairii	keelback	С			⊢−−−− ┘		x	ļ	ļ
reptiles	Varanidae	Varanus varius	lace monitor	С		х	x		 	ļ	ļ
reptiles	Scincidae	Carlia jarnoldae	lined rainbow-skink	С		x	ļ	ļ	l	↓	ł
reptiles	Scincidae	Bellatorias frerei	major skink	С		x	ļ	x	l	↓	ł
reptiles	Agamidae	Diporiphora nobbi	nobbi	С		х	x	х	 	ļ	ļ
reptiles	Scincidae	Concinnia brachysoma	northern bar-sided skink	С			<u> </u>	x	 	ļ	
reptiles	Carphodactylidae	Saltuarius cornutus	Northern Leaf-tailed Gecko	C			x		 	ļ	
birds	Apodidae	Hirundapus caudacutus	White-throated Needletail	V	V		x	ļ	l	↓	ł
reptiles	Diplodactylidae	Oedura coggeri	northern spotted velvet gecko	C	ļ	x	l		───	l	ł
reptiles	Scincidae	Carlia rubigo Tranidashis carinatus	orange-flanked rainbow skink	C		x	└──── ┦			ļ	
reptiles	Elapidae	Tropidechis carinatus	rough-scaled snake	С			└──── ┦		x	ļ	
reptiles	Chelidae	Wollumbinia latisternum	saw-shelled turtle	C	ļ				×	l	l
reptiles	Colubridae	Stegonotus australis	slaty-grey snake	С	ļ		*	ļ	 	l	ł
reptiles	Varanidae	Varanus scalaris Cruptoblopharus virgatus	spotted tree-monitor	C		2	├──── ┘	x	x		
reptiles	Scincidae Agamidae	Cryptoblepharus virgatus	striped snake-eyed skink	C		x	~				
roptilos		Diporiphora australis	tommy roundhead	С		x	*		*		1
reptiles roptiles	-		vollow faced whince-!	Ć		M .					
reptiles	Elapidae	Demansia psammophis	yellow-faced whipsnake	С		х					
	-		yellow-faced whipsnake yellow-spotted monitor zig-zag gecko	C C		x			x		



Appendix C





Flora

Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
<i>Acacia purpureopetala</i> , purple-flowered wattle	PMST	CE	V	The species is confined to the Herberton district in the Einasleigh Uplands biogeographic region of north-eastern Queensland. It grows on steep, granite or metamorphic rocky slopes, at altitudes of 780-880 m in eucalypt woodland. Associated vegetation includes (Mount Emerald) <i>Eucalyptus tindaliae, E. pachycalyx, E. abergiana,</i> <i>Homoranthus porteri</i> , and <i>Leptospermum amboinense,</i> (Herberton) <i>E. rhodops</i> and <i>E. medicris</i> , (Irvinebank) <i>E.</i> <i>cloeziana, E. crebra, Corymbia trachyphloia, Acacia</i> <i>calyculata, A. humifusa</i> and <i>A. leptoloba.</i> Its distribution is not known to overlap with any EPBC listed TECs (DoE 2014d).	Unlikely to occur The Project area is outside the species' distribution (SPRAT 2021) and, with the exception of <i>Homoranthus</i> <i>porteri</i> and <i>Eucalyptus crebra</i> , the associated vegetation (DoE 2014d) has not been recorded within the Project area (Wildnet or ALA). In areas where <i>Homoranthus</i> <i>porteri</i> has been recorded, detailed protected plants surveys have been undertaken in accordance with the Flora Survey Guidelines – Protected Plants (DES, 2020) and no individuals of <i>Acacia purpureopetala</i> have been observed. Similarly, no individuals of <i>Acacia</i> <i>purpureopetala</i> have been observed within <i>E. crebra</i> woodland within the Project area.
<i>Alloxylon flammeum</i> , red silky oak	PMST Wildlife Online	V	V	The species occurs in the Atherton Tablelands, from Danbulla to Upper Barron River. The species grows in rainforest on basalt and complex notophyll vine forests on metamorphics, and on humus-rich gravelly loam from granite, at altitudes of 700–820 m above sea level. This distribution of this species overlaps with the EPBC listed TEC, Mabi Forest (Complex Notophyll Vine Forest 5b) (DEWHA 2008c)	Potential to occur There is one record of <i>Alloxylon flammeum</i> from 2004 in a patch of Mabi Forest TEC within the Study area, approximately 1.2 km from the Project area boundary (ALA). No Mabi Forest TEC has been mapped or ground- truthed within the Project area.
Aponogeton bullosus	PMST Wildlife Online	E	E	The species occurs between Tully and Cairns, and west of Ravenshoe. This species grows in cool, rapid-flowing freshwater rivers and streams in both sunny and shady areas. The species occurs in Wooroonooran and Tully Falls National Park. This distribution of this species overlaps	Potential to occur There are ALA records of <i>Aponogeton bullosus</i> in the Millstream, Ravenshoe State Forest and Tully Falls National Park, all of which overlap with the Study area but



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				with the EPBC listed TEC, Mabi Forest (Complex Notophyll Vine Forest 5b) (DEWHA 2008d).	not the Project area. No Mabi Forest TEC has been mapped or ground-truthed within the Project area.
Arthraxon hispidus, hairy-joint grass	PMST	V	V	In Queensland, the species is found in or on the edges of rainforest and in wet eucalypt forest, often near creeks or swamps and has been recorded in shaded small gullies, on creek banks, and on sandy alluvium in creek beds in open forests, as well as with bog mosses in mound springs. The distribution of the species overlaps with the following EPBC listed TECs:	Unlikely to occur There have been no records of <i>Arthraxon hispidis</i> within the Study area (Wildnet or ALA). There are no mapped or ground-truthed occurrences of the concurrent EPBC listed TECs within the Study area.
				• Semi-evergreen vine thickest of the Brigalow Belt and Nandewar Bioregions	
				• The community of native species dependent on natural discharge of groundwater from the Great Artesian Basin	
				• Brigalow (<i>Acacia harpophylla</i> dominant and co- dominant)	
				 White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland (DEWHA 2008e) 	
Calochlaena villosa	Wildlife Online	-	NT	This prostate tree fern species is found in Australia (Queensland only), Indonesia and Papua New Guinea, with the global population considered stable. It is found at altitudes between 500 m and 3,000 m although it is predominantly found above 1,000 m. It usually forms clumps and occurs in a range of habitats including	Potential to occur There is one record of this species within the Study area, in open eucalypt forest within Koombooloomba National Park dating from 1999 at an approximate altitude of 740 m (ALA). The species has not been recorded within



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				lowland and montane forest, grassland and in secondary regrowth (Williams 2019a).	the Project area and was not observed during field surveys.
Canarium acutifolium	PMST	V	V	The species occurs between Mossman and Tully in north Queensland and has been recorded in mesophyll vine forest along rivers and creeks at altitudes of 5-200 m above sea level. The distribution of the species is not known to overlap with EPBC listed TECs (DEWHA 2008f).	Unlikely to occur All known records of the species are from the coastal region to the east of the Tablelands (ALA). The lowest point of the Project area is 670 m asl and no mesophyll vine forest has been mapped or ground-truthed within the Study area.
Carronia pedicellata	PMST	E	E	The species occurs from Bellenden Ker to Mission Beach with disjunct populations in the Noah and Cooper Creek catchments near Cape Tribulation. It has been recorded in Wooroonooran and Clump Mountain National Parks. The species grows in complex mesophyll or notophyll vine forest of deep soils derived from basalt, granite or metamorphic substrates at altitudes from near sea level to 520 m. The distribution of the species overlaps with the EPBC listed TEC, Mabi Forest (Complex Notophyll Vine Forest 5b) (DEWHA 2008g).	Unlikely to occur All known records of the species are from the eastern side of the Tablelands (ALA). The lowest point of the Project area is 670 m asl and there are no mapped or ground- truthed occurrences of the Mabi Forest TEC within the Project area.
Chingia australis	PMST	E	E	The species occurs between Wooroonooran National Park and Daintree National Park, north Queensland. The species occurs in rainforest on steep creek banks and ridge slopes often inhabiting well-lit sites such as swampy ground in lowland forest or creek banks. Preferred habitats include mesophyll vine forest and upland simple notophyll vine forest, on clay soil (basalt and mudstone),	Potential to occur The species has not been recorded within the Study area as part of the desktop assessments (Wildnet or ALA) and it was not observed during the field surveys. Nevertheless, the Project area is within the known range of the species and suitable habitat is available.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				metamorphic and granite substrates. Reliant on moisture, this species grows in proximity to water courses and requires disturbance such as road cuttings, treefalls, landslips or flood scouring for establishment on exposed mineral soil (Herbert 2006).	
Coleus amoenus	Wildlife Online	-	V	Listed as potentially associated with RE 7.12.52 (<i>Eucalyptus resinifera, Corymbia intermedia, Allocasuarina littoralis, Syncarpia glomulifera, E. drepanophylla +/- E. reducta</i> woodland on granite and rhyolite in the dry to moist rainfall zone)	Known to occur Recorded at multiple locations within the Project area, within REs 7.12.65, 7.12.52, 7.12.66 and 7.12.34
<i>Corybas abellianus,</i> nodding helmet orchid	Wildlife Online	-	NT	This species is found in highland rainforests on the McIlwraith Range and the Atherton Tablelands as far south as Tully Falls. It is generally found at altitudes between 600 m and 1100 m. It forms small colonies among ferns and tussocks, growing in rich loamy soil (CANBR 2016).	Potential to occur This species has been historically recorded (2002 and 2009) within Tully Falls National Park, within the Study area but not the Project area (ALA). There is very limited suitable rainforest habitat exist within the Project area and the species was not observed during field surveys.
<i>Corymbia rhodops</i> , red- throated bloodwood	PMST	V	V	The species is known from the Herberton-Irvinebank area southwest of Cairns and on the slopes of the Windsor Tableland near Mount Carbine. It grows in dry sclerophyll forest with numerous other eucalypt species, preferring ridges or hill slopes with coarse sandy soils. All known populations occur in remnant vegetation. The distribution of the species is not known to overlap with any listed TECs (DEWHA 2008h)	Unlikely to occur The Project area is outside the species' distribution (as documented in SPRAT 2021) and it has not previously been recorded within the Study area (Wildnet or ALA). Vegetation communities within the Project area are primarily wet forest rather than dry, nevertheless some marginal habitat for the species is present.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
Cyathea celebica	Wildlife Online	-	NT	This tree fern has a trunk up to 6 m high and 30 cm in diameter. It occurs in tropical rainforest, forest margins and near streams in Australia (Queensland only), Indonesia and Papua New Guinea. The elevational range is recorded as 30 m to 2,28 0m however most specimens have been collected below 1,000 m (Williams 2019b).	Potential to occur The species has been historically recorded in the north- eastern part of the Study area (in 1976, 1981 and 2001, ALA). It has not been previously recorded within the Project area and was not observed during field surveys. There is limited potential habitat within the Project area.
Cycas platyphylla	PMST	V	V	The species occurs from the Petford district, west of the Atherton Tableland with three disjunct populations recorded from Taravale, Wandovale and the White Mountains. The species occurs in sparse <i>Eucalyptus</i> <i>sideroxylon</i> woodland with a grassy understorey, often on rocky slopes in shallow red stony loams. Its distribution is not known to overlap with any EPBC listed TECs (DEWHA 2008i).	Unlikely to occur There are no known records of the species within the Study area (Wildnet or ALA) and it was not recorded during field surveys. Its preferred habitat has not been mapped or ground-truthed within the Project area.
<i>Dichanthium setosum</i> , bluegrass	PMST	V	LC	The species occurs from the Leichhardt, Morton, North Kennedy and Port Curtis regions. The species is associated with heavy basaltic black soils and stony red- brown hard-setting loam with clay subsoil and is found in moderately disturbed areas including cleared woodland, grassy roadsides, grazed land and highly disturbed pastures. In grassy woodlands, the species can be found where the habitat has been variously grazed, nutrient- enriched and water-enriched, an indication that disturbance benefits the species. Its distribution overlaps with the following EPBC listed TECs:	Unlikely to occur There are no known records of the species within the Study area (Wildnet or ALA) and it was not recorded during field surveys. There are no mapped or ground- truthed occurrences of the concurrent EPBC listed TECs within the Study area.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				• Semi-evergreen vine thickest of the Brigalow Belt and Nandewar Bioregions	
				• The community of native species dependent on natural discharge of groundwater from the Great Artesian Basin	
				• Bluegrass (<i>Dichanthium spp</i> .) dominant grasslands of the Brigalow Belt Bioregion	
				 Brigalow (Acacia harpophylla dominant and co- dominant) 	
				 White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland 	
				 Upland Wetlands of the New England Tablelands and the Monaro Plateau (DEWHA 2008j) 	
Diplazium cordifolium	PMST	V	V	This species is found around Cairns, Herberton, and Wooroonooran. Occurrence includes in rainforest along creek banks, usually below 80-100 m altitude although one population grows at 475 m altitude in Palmerston Valley, north Queensland. Its distribution is not known to overlap with any EPBC listed TECs (DEWHA 2008k).	Unlikely to occur There are no known records of the species within the Study area (Wildnet or ALA) and it was not recorded during field surveys. The lowest point of the Project area is 670 m asl and there are limited rainforest communities within the Project area.
<i>Diuris oporina</i> , northern white donkey's tail	Wildlife Online	-	NT	This species is endemic to northern Queensland, growing on ridges and slopes in forest and woodland on the drier parts of the Atherton and Evelyn Tablelands (Jones 2006).	Potential to occur There is one record of the species within the Study area from 2004, from the adjacent property managed by Bush



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
					Heritage (ALA). It has not been observed within the Project area but suitable habitat is present.
Dodonaea uncinata	Wildlife Online	-	NT	This species is confined to the Mount Spec area NW of Townsville, in open forest or woodland, usually in sandstone soils (George 1985).	Known to occur Recorded at 12 locations within the Project area, all within RE 7.12.65.
Euphorbia carissoides (syn. Chamaesyce carissoides)	PMST	V	V	Confined to areas between Georgetown and east to Stannary Hills, with a disjunct occurrence near Hopevale, north Queensland. Habitat includes cliff lines, among rocky outcrops and hillsides in shrubland and eucalypt low open woodland communities in generally shallow soils derived from sandstone, granite and rhyolite substrates (DEWHA 2008).	Potential to occur There are no known records of the species within the Study area (Wildnet or ALA) and it was not recorded during the field surveys. Nevertheless, the Project area is within the known range of the species and suitable habitat is available.
<i>Firmiana papuana,</i> lacewood	Wildlife Online	-	V	This species is native to Papua New Guinea and Australia (north Queensland only). It is a large canopy tree that grows in lowland forest to an upper elevation of 700 m (Jimbo 2020). It is usually found in drier, more seasonal rainforest or in marginal situations, and usually grows on red soils derived from basalt (CANBR 2019).	Potential to occur There are six records of this species within the northern part of the Study area, outside the Project area, the most recent of which dates from 2008 (ALA). It was not recorded during field surveys and the majority of the Project area is higher than the species' upper elevation limit
Grevillea glossadenia	PMST	V	V	Found west of Atherton Tablelands between Walkamin, Irvinebank, Herberton and Watsonville, north Queensland. Localities include Mt Emerald, Mt Misery, Cooloomon Ck, Little Cooloomon Ck, Emu Ck, Granite Ck and Barkerville. The species occurs in eucalypt woodland or low open forest, in shallow to skeletal granitic soils on rolling hills,	Unlikely to occur The Project area is outside the species' distribution (as documented in SPRAT 2021) and there are no known records of the species within the Study area (Wildnet or ALA). It was not recorded during the field surveys.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				gravel terraces near stream beds and may favour disturbed sites including along roadsides and mining tracks. It occurs in areas of 1000-1300 mm rainfall and can tolerate forests as low as -8°C. Associated vegetation includes <i>Eucalyptus cloeziana</i> , <i>E. pachycalyx</i> , <i>E. reducta</i> , <i>E. cullenii</i> , <i>E. atrata</i> , <i>Corymbia abergiana</i> , <i>C. leichhardtii</i> , <i>C.</i> <i>trachyphloia</i> , <i>C. watsoniana</i> , <i>C. citriodora</i> , <i>Callitris</i> <i>intratropica</i> , <i>Alphitonia excelsa</i> , <i>Acacia purpureapetala</i> , <i>Homoranthus porteri</i> , <i>Leptospermum amboinense</i> , and <i>Xanthorrhoea johnsonii</i> . The distribution of the species is not known to overlap with EPBC listed TECs (DEWHA 2008m).	Nevertheless, the Project area does provide suitable habitat for the species.
Homoranthus porteri	PMST Wildlife Online	V	V	Occurs from Mount Mulligan, west of Mareeba, southward near Ravenshoe and 80 km northwest of Townsville, north Queensland. Grows on sandstone pavement, rocky outcrops (including rhyolite), hillsides and scree slopes in open eucalypt woodland. Its distribution is not known to overlap with any EPBC listed TECs (DEWHA 2008b). RPS (2011) described the species as favouring the edges of rock pavements, entirely restricted to exposed ridge topography and forming almost monospecific thickets.	Known to occur This species was recorded 30 times in four discrete locations within the Project area, all within the vegetation community RE 7.12.65. Project infrastructure has been relocated to avoid any direct disturbance to this species.
Lastreopsis walleri	PMST Wildlife Online	V	V	This species is endemic to a few scattered locations on the Atherton Tablelands. It grows in rainforest and shaded places in open forest. The distribution of the species	Unlikely to occur The species has been historically recorded within the Study area where this overlaps with the Wet Tropics WHA, with the last record dating from 2006 (ALA). It was not



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				overlaps with the EPBC listed TEC, Mabi Forest (Complex Notophyll Vine Forest 5b) (DEWHA 2008n).	observed during the field surveys. There are no mapped or ground-truthed areas of Mabi Forest TEC within the Project area.
Lindsaea terrae-reginae	Wildlife Online	-	E	This terrestrial fern is poorly known but specimens have been collected from rainforest (on tree roots and under rocks, base of granitic boulders) on clayey soils (Kramer and Tindale 1976).	Potential to occur There is one record of the species within the Study area, from Tully Falls National Park, dating from 2009 (ALA). There are no previous records within the Project area and it was not observed during surveys. There is limited potential habitat within the Project area.
Melaleuca sylvana	Wildlife Online	-	Ε	Occurs in the Ravenshoe and Herberton areas in heath, forest and woodland, often on soils derived from rhyolite (Craven and Ford 2004).	Potential to occur The species has been recorded in the north of the Study area, along the northern boundary of Ravenshoe State Forest 1, with the most recent of these records dating from 2005 (ALA). It has not been recorded previously within the Project area and was not observed during field surveys. Nevertheless suitable habitat does occur within the Project area.
Macropteranthes montana	PMST	V	V	This species is known from a small area just south of Cape York peninsula with collections made from localities near Mount Mulligan, Chillagoe, Dimbulah, Petford, Irvinebank, Elizabeth Creek Gorge, Bulleringa National Park and south west as far as the northern Newcastle Range. The species occurs in shallow soil in low woodland or vine thicket and occurs within the Northern Gulf and Wet Tropics natural resource management regions. The distribution of this	Potential to occur This species has not been recorded in the desktop assessment (Wildnet or ALA) or during field surveys. There is limited potential habitat (vine thicket) within the Project area.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				species is not known to overlap with any listed TECs (DEWHA 2008o).	
Phaius australis, lesser swamp-orchid	PMST	E	E	The species is endemic to Australia and occurs in southern Queensland and northern New South Wales. Its distribution has tentatively been described as north from Lake Cathie (near Port Macquarie) but mainly north of the Evans Head area to the Barron River in northeast Queensland, but it is rare in the latter region and these populations are now thought to be destroyed. It is commonly associated with coastal wet heath / sedgeland wetlands, swampy grassland or swampy forest and often where broad-leaved paperbark or swamp mahogany are found. Typically restricted to swamp forest margins and often associated with rainforest elements such as Bangalow palm and cabbage tree palm. The distribution of this species is not known to overlap with any listed TECs (DoE 2014b).	Unlikely to occur This species has not been recorded in the desktop assessment (Wildnet or ALA) or during field surveys. There is no suitable habitat for the species (as described in DoE 2014b) within the Project area.
Phaius pictus	PMST	V	V	The species occurs sporadically from McIlwraith Range, Bloomfield River to Kirrama Range, north Queensland. Highly localised, the species is restricted to rainforests from 0-600 m altitude and usually occurs in sheltered humid sites in proximity to streams and seepage among forest litter on boulders. The distribution of the species is not known to overlap with any EPBC listed TECs (DEWHA 2008p).	Unlikely to occur There is one record of the species dating from 1973 at the eastern-most extent of the Study area, to the north of Koombooloomba Dam within the National Park. There are no known records of the species within the Project area and it was not recorded during field surveys. The lowest point of the Project area is 670 m asl and there are limited rainforest communities within the Project area.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
Phlegmariurus marsupiiformis (syn. Huperzia marsupiiformis), water tassel-fern	PMST	V	V	The species is an epiphyte on rocks or rainforest trees, growing at altitudes >800 m above sea level (Chinnock 1998) and occurs from the Windsor Tableland to south of Tully River (Jones and Gray 1985; Chinnock 1998). The distribution of the species overlaps with the EPBC listed TEC, Mabi Forest (Complex Notophyll Vine Forest 5b) (DEWHA 2008q).	Unlikely to occur There is one record of the species dating from 1985 at the southeastern-most extent of the Study area, south of Koombooloomba Dam (ALA). There are no known records of the species within the Project area and it was not recorded during field surveys. There are no mapped or ground-truthed areas of Mabi Forest TEC within the Project area.
<i>Polyphlebium endlicherianum</i> , middle filmy fern	PMST	E	V	The species is epiphytic and lithophytic, growing on damp rocks and tree trunks in tropical rainforest, often near streams or waterfalls (SPRAT 2021).	Unlikely to occur There is one undated record of the species at the northeastern-most extent of the Study area, within Tully Falls National Park (ALA). There are no known records of the species within the Project area and it was not recorded during field surveys. There are limited rainforest communities within the Project area.
Prostanthera clotteniana	PMST Wildlife Online	CE	E	This species occurs in very rocky areas, with shallow acidic soil. It is confined to rocky rhyolite areas in drier woodlands on steep hills west of the Atherton-Ravenshoe area. It was thought to be extinct prior to its rediscovery in 1999. All recorded sites are on the rhyolite of the Glen Gordon and Walsh Bluff volcanics. Known locations and habitats straddle the Wet Tropics and Einasleigh Uplands bioregions. Recruitment and establishment are very slow (4-10 years) due to the species being an obligate seed generator and being severely impacted by frequent fires within known localities (DoE 2015b).	Known to occur Recorded in one broad location within the Project area. Project infrastructure has been relocated to avoid any direct disturbance to this species.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
Scleromitrium polycladum (syn. Oldenlandia polyclada)	Wildlife Online	-	NT	A member of the Rubiaceae, this species is distributed across Australia (Queensland, the Northern Territory and Western Australia) and the Indo Pacific region. It is listed as associated with RE 7.3.20	Potential to occur There is one record of this species within the Study area, from the top of Tully Falls, dating from 2020 (ALA). It has not been previously recorded within the Project area and was not observed during field surveys. RE 7.3.20 has not been mapped or ground-truthed within the Project area.
Solanum hamulosum	Wildlife Online	-	E	This species is known only from the Atherton Tableland, growing in disturbed areas in well developed upland and mountain rainforest. It has a reported altitudinal range of 650 m to 1,500 m (CANBR 2019b).	Potential to occur There is one record of the species from Tully Falls National Park within the Study area, dating from 2009 (ALA). There are no previous records within the Project area and the species was not observed during field surveys. There is limited potential rainforest habitat within the Project area.
Tephrosia leveillei (syn. Tephrosia flagellaris)	PMST	V	LC	This species is currently known from the area between Chillagoe and Forty Mile Scrub (five collections) with one collection further south, near Ravenswood. It has been recorded growing on alluvial plains in <i>Eucalyptus cullenii</i> woodland with <i>Corymbia erythrophloia, Erythrophleum</i> <i>chlorostachys</i> and <i>Grevillea glauca</i> , and in tall open forest of Eucalyptus and Corymbia species over dense <i>Heteropogon contortus</i> on red sand. At the Ravenswood site it is recorded growing along the railway track (DEWHA 2008r).	Unlikely to occur There are no known records of the species within the Study area (Wildnet or ALA) and it was not recorded during field surveys. No habitat similar to that where the species has been previously recorded has been mapped or ground-truthed within the Project area.
Triplarina nitchaga	PMST	V	V	The species occurs in two small populations near Ravenshoe, north Queensland. It grows at Nitchaga Creek	Known to occur



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence	
	Wildlife Online			amongst granite outcrops near the stream, in open forest dominated by <i>Syncarpia glomulifera, Eucalyptus resinifera,</i> and <i>Leptospermum brachyandrum</i> . Whilst at Arthurs Seat, it grows on rhyolite hillside and dry gully, in open forest dominated by <i>Eucalyptus citriodora, E. acmenoides, E.</i> <i>abergiana, Homoranthus porteri,</i> and <i>Labichea nitida</i> . Its distribution is not known to overlap with any EPBC listed TECs (DEWHA 2008a).	Recorded in one distinct location within the Project area, at Arthur's Seat, which is a known population. Project infrastructure has been relocated to avoid any direct disturbance to this species.	
<i>Tropilis callitrophilis</i> (syn <i>Dendrobium</i> <i>callitrophilum</i>), thin feather orchid	PMST	V	V	The species occurs on the Evelyn, Mount Windsor, Atherton and Carbine Tablelands and some of the higher mountains between the Daintree and Bloomfield Rivers. It grows at altitudes of 760-1500 m above sea level in or close to rainforest. It is epiphytic or lithophytic and favours stringybark cypress pine, <i>Callitris macleayana</i> , but also grows on various shrubby myrtles such as <i>Austromyrtus</i> . The distribution of the species overlaps with the EPBC listed TEC, Mabi Forest (Complex Notophyll Vine Forest 5b) (DEWHA 2008s)	Unlikely to occur There is one undated record of the species at the eastern- most extent of the Study area, just north of Koombooloomba Dam. There are no known records of the species within the Project area and it was not recorded during field surveys. None of its preferred host species have been recorded within the Project area, and there are no mapped or ground-truthed areas of Mabi Forest TEC within the Project area.	
<i>Vappodes lithocola (syn. Dendrobium lithocola),</i> dwarf butterfly orchid	PMST	Ε	V	This species is lithophytic (rock-growing) orchid. It is highly localised, occurring in the coastal ranges between Daintree and Cairns. It is confined to Macalister Range between the Barron and Mossman rivers. This species grows in rainforest areas on rocks, boulders, cliff faces on ridges and slopes at altitudes of 300-800 m asl. It occurs in open eucalypt forests and woodlands in exposed, often harsh situations on rocks, boulders and	Potential to occur There are no known records of the species within the Study area (Wildnet or ALA) and it was not recorded during field surveys. Nevertheless, suitable habitat for the species does occur within the Project area.	



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				cliff faces. The distribution of the species is not known to overlap with any listed TECs (DEWHA 2008t).	
Zeuxine polygonoides (syn. Rhomboda polygonoides), velvet jewel orchid	PMST	V	V	The species is found in three locations between the Paluma Range and the Daintree River, north Queensland, at altitudes of 450-820 m above sea level and usually growing on rainforest floor in moist shady sites. It has also been found in mesophyll vine forests and simple notophyll vine forest, growing on tops of granite boulders adjacent to streams, on flat rocks and among leaf litter on metamorphic substrates, granite, or rhyolite. It has been previously recorded in the following REs:	Potential to occur There are no known records of the species within the Study area (Wildnet or ALA) and it was not recorded during field surveys. There are no mapped or ground- truthed areas of Mabi Forest within the Project area but there are patches of RE 7.12 16a.
				 7.11.1a – Mesophyll vine forest in very high rainfall lowlands and foothills on metamorphics 	
				• 7.12.16a – Simple notophyll vine forest (often with Bull Kauri, <i>Agathis microstachya</i> , in cloudy wet to moist uplands on granite and rhyolite	
				The distribution of the species overlaps with the EPBC listed TEC, Mabi Forest (Complex Notophyll Vine Forest 5b) (DEWHA 2008u).	



Threatened Fauna

Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
Amphibians					
<i>Litoria dayi</i> , Australian lace- lid	PMST Wildlife Online	V	V	The species is endemic to the Wet Tropics and is found at altitudes between sea level and 1200 m asl. It has disappeared from many upland sites throughout the Wet Tropics but persists in the lowlands and foothills. It is a rainforest specialist, inhabiting complex, densely vegetated habitats. It prefers fast-flowing rocky streams and has been found in habitats up to 50 m from streams (TSSC 2019a).	Potential to occur The species has never been recorded in the Project area and has not been recorded (Wildnet and ALA) in the Study area since 1974. It was not observed during targeted wet season surveys despite other amphibians being recorded from areas of suitable habitat. There is minimal preferred habitat within the Project area
<i>Litoria nannotis</i> , waterfall frog	Wildlife Online PMST	Was E, de-listed as of 11/12/20	E	This species is endemic to the Wet Tropics Bioregion in north Queensland. It is a habitat specialist, restricted to perennial rocky stream habitats in rainforest or wet sclerophyll forest. The stream is the primary habitat for both males and females throughout the year. It is largely restricted to cascades and splash zones of fast-flowing streams (SPRAT; Hero and Retallick 2004).	Potential to occur The species has been recorded in the northern and eastern parts of the Study area, primarily but not exclusively within Tully Falls National Park. The most recent of these records dates from 2004 (ALA). The species has not been previously recorded within the Project area and was not observed during field surveys despite similar species of stream frog being observed. There is minimal preferred habitat within the Project area, in the very north of Wooroora station within the Wet Tropics WHA.
<i>Litoria nyakalensis,</i> mountain mistfrog	PMST	CE	CR	The species is a rainforest specialist, with an obligate association with streams. It is found in upland rainforest and wet sclerophyll forest alongside fast-	Potential to occur The species has been historically recorded (via Wildlife Online and ALA) within the Project area,



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				flowing streams where there is white water from riffles and cascades. It has not recorded in the Wet Tropics since 1990 and is possibly now extinct but may still persist in remote areas (TSSC 2019b).	within the Wet Tropics WHA. The last recorded observation is dated 1981. It was not observed during targeted wet season surveys despite other amphibians being recorded from areas of suitable habitat (including the site of the historic observation). The location of the historic sighting is the only suitable habitat within the Project area, in the very north of Wooroora station within the Wet Tropics WHA.
<i>Litoria rheocola</i> , common mistfrog	Wildlife Online PMST	Was E, de-listed as of 11/12/20	E	This species is endemic to the Wet Tropics Bioregion in north Queensland. It is a rainforest specialist, restricted to fast-flowing rocky creeks and streams in rainforest as well as wet sclerophyll forest. uses a variety of streamside vegetation and rock perches, with males showing higher fidelity to the rocky stream environment than females (SPRAT; Hero et al 2004).	Potential to occur The species has been recorded in the northern and eastern parts of the Study area, primarily but not exclusively within Tully Falls National Park. The most recent of these records dates from 2004 (ALA). The species has not been previously recorded within the Project area and was not observed during field surveys despite similar species of stream frog being observed. There is minimal preferred habitat within the Project area, in the very north of Wooroora station within the Wet Tropics WHA
<i>Litoria serrata</i> , tapping green-eyed frog	Wildlife Online	-	V	This species was originally described from Malanda, Atherton. It is found within an elevation range of sea level to 1300 m. It occupies rainforest and adjacent wet sclerophyll forest as well as gallery forest and paperbark woodland, and is usually found near creeks or seepages, often in association with mosses and lichens (AmphibiaWeb 2019).	Known to occur The species was recorded near creeks during spotlighting surveys in March 2021 at two locations within the Wooroora property, towards the boundary with the Wet Tropics WHA and more than 1 km from proposed Project infrastructure.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
<i>Pseudophryne covacevichae,</i> magnificent brood frog	PMST Wildlife Online	V	V	Until 2013 this species was known only from the Ravenshoe and Herberton areas; it was then found 160 km to the southeast. It is restricted to specific habitats, breeding in and around seepage areas in open eucalypt forests. All previous records of the species have been on rhyolites of Glen Gordon volcanics at altitudes >800 m. (TSSC 2017, McDonald et al 2000).	Known to occur Magnificent brood frog were recorded at multiple locations within the Project area during the March 2021 wet season surveys.
Birds					
<i>Calidris ferruginea</i> , curlew sandpiper	PMST	CE, migratory, marine	CR	The curlew sandpiper is a visiting migrant during Australian summer, congregating at sheltered intertidal mudflats and at the muddy margins of terrestrial wetlands. It mainly occurs on intertidal mudflats in sheltered coastal areas, such as estuaries, bays, inlets and lagoons, and also around non-tidal swamps, lakes and lagoons near the coast, and ponds in saltworks and sewage farms. It may also be recorded inland, though less often, including around ephemeral and permanent lakes, dams, waterholes and bore drains, usually with bare edges of mud or sand (SPRAT).	Potential to occur The species has not been recorded within the Study area (Wildnet or ALA) and it was not observed on site. There is minimal, marginal habitat within the Project area.
Casuarius casuarius johnsonii, southern cassowary – southern population	Wildlife Online PMST	E	E	The southern cassowary primarily occurs in rainforests associated vegetation but also uses woodlands, melaleuca swamps, mangroves and beaches for intermittent foraging. It requires a high diversity of fruiting trees to provide year-round	Likely to occur There are recent records of southern cassowary within the Study area but not the Project area, with the most recent dating from 2020 (ALA). The species was not observed during the field surveys. There are



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				supply of fleshy fruit and access to freshwater multiple times a day. Its core habitat is the coastal lowlands between Ingham and Mossman, as well as uplands in the southern Atherton tablelands (Latch 2007). Appendix 2 of the Recovery Plan lists REs that are considered Essential Habitat for the species (Latch 2007).	small isolated patches of three vegetation communities listed as Essential Habitat for the southern cassowary within the Project area.
Cyclopsitta diophthalma macleayana, Macleay's fig- parrot	Wildlife Online	-	V	This species frequents rainforests, gallery forests and adjacent open forests up to 750 m above sea level. During the breeding season, territories are centred around feeding trees (<i>Ficus spp.</i>) whilst communal roosts are used outside of breeding season (Forshaw 1992).	Potential to occur The species has been recorded within the Study area, within the Tully Falls and Koombooloomba National Parks to the east of the Project area. The most recent of these records dates from 1995 (ALA). The species has not been previously recorded within the Project area and was not observed during field surveys. There is minimal suitable habitat within the Project area and none of its preferred feeding trees were recorded during the botanical surveys.
<i>Erythrotriorchis radiatus</i> , red goshawk	PMST Wildlife Online	V	Ε	The red goshawk is endemic to Australia. It occurs in a patchy, widespread distribution across coastal and sub-coastal regions of northern and eastern Australia. The species inhabits biodiverse, extensive, multi-species mosaics of mostly Eucalypt-dominated open forests and woodlands, in permanently watered, varied terrain. Its present association with rugged terrain may be an artefact of past patterns of	Likely to occur The species was known to nest historically on the Bush Heritage property 'Yourka' immediately to the south of the Project area, with the last recorded sighting in ALA dating from 2007. The Project area supports foraging and breeding habitat for the species. Targeted searches have been undertaken for nesting and foraging individuals, and no red goshawks have been recorded to date.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				habitat clearance, an interpretation supported by the pattern of early records (Czechura et al. 2010). Nests are restricted to trees that are taller than 20 m (mean height = 31 m, DERM 2012) and within 1 km of a watercourse or wetland (TSSC 2015c). Pairs are believed to remain within the nesting territory all year but may expand their home range when not breeding (SPRAT 2021; TSSC 2015c).	
<i>Falco hypoleucos</i> , grey falcon	PMST	V	V	The grey falcon occurs in arid and semi-arid Australia, including the Murray-Darling Basin, Eyre Basin, central Australia and Western Australia. The species is mainly found where annual rainfall is less than 500 mm, except when wet years are followed by drought, when the species might become marginally more widespread, although it is essentially confined to the arid and semi-arid zones at all times. The species frequents timbered lowland plains, particularly acacia shrublands that are crossed by tree-lined water courses (TSSC 2020b)	Unlikely to occur There are no known historical records of the species within the Study area (Wildnet or ALA) and it was not recorded during field surveys. The Project area receives far in excess of 500 mm / annum and does not provide suitable habitat for this species.
<i>Hirundapus caudacutus,</i> white-throated needletail	PSMT	V, marine	V	The white-throated needletail is widespread in eastern and south-eastern Australia. It is recorded in all coastal regions of Queensland, extending inland to the western slopes of the Great Divide and occasionally onto the adjacent inland plains (SPRAT 2021). The species breeds in northern Asia and spends the non-breeding season (typically October –	Known to occur There are a number of historical records of white- throated needletail within the Study area, to the north, south and east of the Project area (ALA). One white-throated needletail was observed during the March 2021 field surveys, deceased apparently due to collision with the existing transmission line.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				March inclusive) in Australia where it is almost exclusively aerial, occurring from heights of less than 1 m up to more than 1,000 m above the ground. The white-throated needletail occurs over most types of habitat, including cleared areas, but is most often recorded above wooded areas (SPRAT 2021).	
<i>Numenius madagascariensis,</i> Eastern curlew	PMST	CE, migratory, marine	E	Within Australia, the eastern curlew has a primarily coastal distribution. It is rarely recorded inland but may flyover during migration. 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 (DoE 2015c; BirdLife International 2017d).	Unlikely to occur There are no known historical records within the Study area (ALA) and the species was not observed during field surveys. There is no potential habitat for the species within the Project area.
<i>Rostratula australis,</i> Australian painted snipe	PMST	E, marine	E	The Australian painted snipe generally inhabits shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans. They also use inundated or waterlogged grassland or saltmarsh, dams, rice crops, sewage farms and bore drains. Typical sites include those with rank emergent tussocks of grass, sedges, rushes or reeds, or samphire (SPRAT 2021)	Potential to occur There are no known historical records within the Study area (ALA) and the species was not observed during field surveys. There is only limited potential habitat available within the Project area.
<i>Turnix olivii</i> , buff-breasted button-quail	PMST	E	E	The buff-breasted button-quail occurs in north- eastern Queensland. It is one of the least known birds in Australia. It occurs in patches of short and	Unlikely to occur There are no known historical records within the Study area (ALA) and the species was not observed



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				sparse grassland, on a terrain of small stones (often on the lower slopes of hills and ridges), and sometimes in open glades amongst <i>Melaleuca,</i> <i>Acacia, Alphitonia</i> or <i>Tristania</i> , in rainforest or open Eucalyptus woodland. It is possible that fires that occur early in the wet season might help to maintain a suitable open habitat structure for the breeding season, although observations suggest that the rapid and dense regrowth of grasses in burnt areas following the onset of the wet season quickly renders such habitats unsuitable (SPRAT 2021) The species inhabits tropical eucalypt woodland with very sparse understorey of shrubs and grasses. It is usually seen on lower, thinly grassed slopes of hills with small <i>M. viridiflora</i> (DEWHA 2010b). The species has a reported upper elevation limit of 400 m (Debus and Kirwan 2020).	during field surveys. There is only limited potential habitat available within the Project area and the entire Project area is several hundred metres above the species' reported upper elevation limit.
Tyto novaehollandiae Kimberli, masked owl	PMST	V	V	The masked owl is native to Australia, Indonesia and Papua New Guinea (BirdLife International 2018). The distribution of the masked owl (northern) within Australia is poorly known, and three subpopulations have been suggested: Kimberley, Northern Territory and Cape York (SPRAT 2021). In Queensland it occurs along the southern rim of the Gulf of Carpentaria, Cape York Peninsula and south to Atherton Tablelands and the Einasleigh-Burdekin divide (SPRAT 2021).	Known to occur There are a number of historical records of masked owl within the Study area, to the north and south of the Project area (ALA). During the January 2021 surveys masked owl was recorded vocalising at two locations on the Glen Gordon property; on multiple occasions alongside Blunder Creek (within riparian vegetation dominated by <i>Eucalyptus tereticornis</i> and <i>Casuarina cunninghamiana</i>) and once within mixed Eucalypt woodland dominated by <i>Corymbia</i> <i>intermedia, E. resinifera</i> and <i>E. portuensis</i> .



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				The masked owl (northern) has been recorded from riparian forest, open forest, <i>Melaleuca</i> swamps and the edges of mangroves, as well as the edges of sugar cane fields (SPRAT 2021). It requires large old- growth trees with large hollows for nesting (SPRAT 2021). It usually nests in patches of closed forest and feeds largely on small to medium sized terrestrial mammals. The subspecies probably breeds in March- October and nests are 7-8 km apart (SPRAT 2021). It is sedentary and territorial (SPRAT 2021).	



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
Mammals					
<i>Bettongia tropica,</i> northern bettong	PMST Wildlife Online	E	Ε	The species is endemic to northern Queensland. It has a small, fragmented distribution and only occurs within a thin strip of sclerophyll forest along the western margin of the rainforest, in the ecotone between rainforest and savannah woodland. The species has undergone a large contraction in its range and no longer occurs in the Dawson Valley or greater Ravenshoe area (TSSC 2016b). Extant populations of northern bettongs occur in a range of eucalypt forest types associated with the western edge of the rainforests in the Wet Tropics bioregion and the eastern edge of the open eucalypt woodlands in the Einasleigh Upland bioregion. This narrow band of habitats consists of a cline of eucalypt forest types from very tall and wet <i>Eucalyptus grandis</i> dominated forests through tall <i>E.</i> <i>resinifera-Syncarpia glomulifera</i> dominated forests to medium height and drier <i>E. citriodora</i> or <i>E.</i> <i>platyphylla</i> dominated forests (Dennis 2001).	
<i>Dasyurus hallucatus,</i> northern quoll	PMST Wildlife Online	E	LC	Habitat occupied by the species usually includes some form of rocky area or structurally diverse woodland or forest used for shelter purposes with surrounding vegetated habitats used for foraging and dispersal. Shelter habitat is important for breeding and refuge from fire / predation. Recent surveys throughout Queensland have suggested the	Likely to occur There is a record of the species dating from 2010 in the northwest of the Study area, near Mount Garne as well as much older records from Ravenshoe (to the north) and Tully Falls National Park (to the east) also both within the Study area (ALA). Despite near 5,000 camera trap nights in suitable habitat, there



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				species is more likely to be present in high relief areas that have shallower soils, greater cover of boulders, less fire impact and were closer to permanent water (Hill and Ward 2010, TSSC 2005, SPRAT 2021).	have been no observations of northern quoll within the Project area. Nevertheless, there is suitable habitat distributed across the Project area.
<i>Dasyurus maculatus gracilis,</i> spotted-tailed quoll – northern subspecies	PMST Wildlife Online	Ε	E	This is a forest-dependent species that occupies a wide range of habitat types, all characterised by relatively high and predictable seasonal rainfall (> 600 mm/yr). The northern subspecies is confined to upland closed forests (mostly > 900 m altitude) in the upper catchments of rivers draining east and west of the eastern escarpment in the Wet Tropics bioregion. Preferred vegetation comprises simple and complex notophyll vine forest, simple microphyll vine-fern thicket. Denning occurs in tree hollows, logs and rock crevasses (SPRAT 2021).	Likely to occur The species has not been recorded within the Project area but there are a number of historic records within the broader Study area, from Tully Falls National Park to the east (the most recent of these dating from 1994) (ALA). There is limited preferred habitat for the species within the Project area, mostly along the eastern boundary.
<i>Dendrolagus lumholtzi,</i> Lumholtz's tree-kangaroo	Wildlife Online	-	NT	This species occurs mostly at high altitudes along the western edge of the Atherton Tablelands. It is mostly restricted to rainforest habitats but also extends along riparian vegetation through primarily open forest habitats and, less abundantly, wet sclerophyll forests. It is mainly nocturnal and predominantly arboreal. The species shows strong site fidelity, with individuals remaining within their home range even when this is threatened by clearing or disturbance; as such, it has been known to occupy forest fragments	The species was recorded on camera trap within a small patch of rainforest vegetation that will not be intersected by any Project infrastructure.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				< 20 ha. Populations in such fragments may have limited long-term viability (Woinarski & Burbridge 2016b).	
<i>Hipposideros semoni</i> , Semon's leaf-nosed bat	PMST	V	E	This species is distributed in coastal Queensland from Cape York to just south of Cooktown. It is known to roost in caves, rock fissures, mines, boulder piles and tree hollows. It forages in tropical rainforest, monsoon forest, wet sclerophyll forest and open savannah woodland; they appear to prefer rainforest (SPRAT).	Unlikely to occur There are no known records of the species from the Study area (Wildnet or ALA) and it was not recorded during field surveys. Nevertheless, there is minimal potential habitat within the Project area.
<i>Macroderma gigas</i> , ghost bat	PMST	V	Ε	The species range is discontinuous and only 14 breeding sites are currently known. It roosts in caves, rock crevices and old mines. It is carnivorous, feeding on small mammals (including other bats), birds, reptiles, frogs and large insects (TSSC 2016a).	Potential to occur There is an undated record of the species outside of the Study area to the west, at Mount Garnet (ALA). A call signal potentially belonging to ghost bat was recorded on an anabat during the wet season surveys, noting that this species is difficult to definitively identify on call alone. Further investigations were undertaken in the dry season surveys, focusing on areas where there may be potential cave roosts (as identified through detailed LiDAR analysis). There is very limited potential roosting habitat for ghost bat within the Project area, no further potential call signals were recorded during the dry season and no individuals were caught in harp traps or observed tangled in barbed wire fences around the property (other bat species were recorded in this manner).



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
<i>Mesembriomys gouldii</i> <i>rattoides</i> , black-footed tree- rat	PMST	V	LC	This is a nocturnal mammal whose distribution is poorly known. It has been recorded mostly from eucalypt forests and woodlands (but not rainforests) around Mareeba. There are also records sparsely scattered across the Cape York region and there are recent records from AWC's Picaninny Plains and Brooklyn wildlife sanctuaries. It dens in tree hollows and forages on the ground and in trees, foraging at least 500 m from a roost site. It has a home range of 60-70 ha. Its diet comprises mostly fruits and seeds but also includes some invertebrates, flowers and grass (TSSC 2015a). The species has an upper elevation limit of 700 m (Woinarski and Burbidge, 2016a). It forages on the fruits of <i>Pandanus spiralis</i> , and uses the dense foliage of this vegetation as daytime roost sites (Rankmore and Friend 2008).	Potential to occur There is one undated record of the species outside the Study area to the west, at Mount Garnet (ALA). It was not observed during field surveys but some potential habitat occurs on site.
<i>Murina florium</i> , tube-nosed insectivorous bat	Wildlife Online	-	V	The species occurs from Paluma to Shipton's Flat, north Queensland, at altitudes of near sea level to 1200 m (Clague 2012; DES 2018). It is most commonly found in rainforests with emergent <i>Eucalyptus grandis</i> (DES 2018) but also in tall eucalypt forests (Schulz et al. 2008) and may be particularly associated with areas where rainforests and wet sclerophyll forests meet (Reardon et al. 2010). Roosting habitat is within the canopy in small groups in foliage 'nests', dead leaf clusters, arboreal termitaria, epiphytic fern fronds, and domed nests of	Potential to occur The species has been recorded the west of the Study area, within Tully Falls and Koombooloomba National Parks; the most recent of these records dates from 1995 (ALA). The species has not been previously recorded within the Project area. One call file from the Anabat deployment in January 2021 potentially corresponds with this species, however the species is difficult to accurately identify based on call alone. There is limited suitable habitat for the tube-nosed insectivorous bat within the Project area



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				scrub and fern-wrens (Burbidge et al. 2014). Forages in the forest canopy and shrub layer (Whybird 1996).	and these areas were targeted with harp traps in June 2021; the species was not recorded.
Ornithorhynchus anatinus, platypus	Wildlife Online	-	SL	The platypus is restricted to streams and suitable freshwater bodies, including some shallow water storage lakes. Its food is almost exclusively comprised of benthic macroinvertebrates so the species is water-dependent. It occupies resting or nesting burrows in earth banks or accumulated stream debris or low dense vegetation (Woinarski and Burbridge 2016c).	Known to occur Platypus were observed in Blunder Creek on the Glen Gordon property during the wet season surveys.
<i>Petauroides volans minor,</i> northern greater glider	PMST Wildlife Online	V	V	The species has an elevation range from sea level to 1200 m asl. It is largely restricted to eucalypt forests and woodlands, and is typically in higher abundance in taller, montane, moist eucalypt forests with relatively old trees and abundant hollows. Distribution may be patchy, even in suitable habitat. It favours forests with a diversity of eucalypt species and has low persistence in small forest fragments, due to low dispersal ability; native forest patches of at least 160 km ² are required to maintain viable populations (TSSC 2016c).	Known to occur This species recorded at multiple locations across the Project area during wet season fauna surveys.
<i>Petaurus australis unnamed subsp.</i> , yellow-bellied glider – Wet Tropics subspecies	PMST Wildlife Online	E	E	This species is found in tall open wet eucalypt forest adjacent to rainforest on the western fringe of the Wet Tropics WHA. It is found at altitudes above 700 m altitude (SPRAT 2021).	Known to occur This species was recorded during wet season surveys in the north-eastern most part of the Project area, within the Wet Tropics QHA.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				Known RE associations include 7.8.15ab, 7.8.16ab, 7.12.21ab, 7.12.22abde and 7.12.27b. These forests are typically dominated by <i>E. grandis</i> and <i>E. resinifera</i> , often with <i>B. integrifolia</i> and <i>Syncarpia</i> <i>glomulifera</i> . YBG habitat is associated with other species of conservation interest: northern bettong, magnificent brood frog, <i>Dodonea uncinata</i> and <i>Prostanthera clotteniana</i> (TSSC 2020a).	
<i>Phascolarctus cinereus</i> , koala (combined populations of Queensland, New South Walkes and the Australian Capital Territory)	PMST Wildlife Online	V	V	The koala inhabits a range of temperate, sub-tropical and tropical forest, woodland and semi-arid communities dominated by species from the genus <i>Eucalyptus</i> . It is limited to < 800 m asl (DSEWPC 2012c). Its diet is restricted mainly to Eucalyptus species, it may also consume <i>Corymbia</i> , <i>Angophora and</i> <i>Lophostemon</i> and at time supplement its diet with <i>Leptospermum</i> and <i>Melaleuca</i> (TSSC 2012b).	Potential to occur There are two historical records for koala within the Study area, both are > 5 km from the Project area (ALA). The species has not been recorded within the Project area and no evidence was observed during the field surveys. Nevertheless, suitable habitat is present within the Project area.
<i>Pteropus conspicillatus,</i> spectacled flying-fox	PMST Wildlife Online	E	E	The species is restricted to tropical rainforest areas for camps, although it will feed on eucalypts in tall open forests adjoining rainforest communities. It will forage up to 50 km from the camp in a night. The EPBC listed TEC, Mabi Forest (Complex Notophyll Vine Forest 5b) is considered a key habitat for the species (SPRAT 2021, TSSC 2019c).	Likely to occur The National Flying Fox Monitoring programme (DAWE 2021b) reports a spectacled flying-fox camp at Malaan, east of Ravenshoe and just outside the Study area. The desktop assessment also indicates the species' presence in the Ravenshoe Forest Reserve 1 which is within the Study Area, and abuts the Project area immediately to the north (ALA). There is limited rainforest habitat within the Project



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
					area to support a camp, but potential foraging habitat is widespread.
Pteropus poliocephalus, grey-headed flying-fox	PMST	V	-	The grey-headed flying-fox is distributed in a coastal belt from southern QLD, NSW, eastern Victoria and rarely into South Australia, and is found infrequently in inland areas elsewhere. It is a highly colonial species, forming camps in tall closed forest near streams, rivers or estuaries. Its primary food source is blossom from <i>Eucalyptus</i> and related genera but in some areas it will also use a variety of rainforest fruits. None of the vegetation communities it uses for foraging produce continuous food resources throughout the year, so the species has adopted complex migration traits in response to ephemeral and patchy resources (TSSC 2001). The species is usually found on coastal lowlands and slopes below altitudes of 200 m. They will forage within 40 km of a camp (DAWE 2021a).	Unlikely to occur There are no known grey-headed flying-fox camps recorded in the Atherton Tablelands in the National Flying Fox Monitoring programme (DAWE 2021b) and no known records of the species in Wildnet or ALA. The lowest part of the Part area is approximately 670 m.
<i>Rhinolophus robertsi</i> , large- eared horseshoe bat	PMST	V	E	The species occurs in north-eastern QLD, within the Wet Tropics and Einasleigh Uplands bioregions. It forages within dense stands of vegetation: rainforests, riparian forests, eucalypt open forests and woodlands. It is insectivorous. It is thought to roost mainly in tree hollows and vegetation, or open habitats such as under creek banks, rock piles and relatively shallow caves (TSSC 2016e).	Potential to occur There are no known records of the species within the Study area (Wildnet and ALA), and it was not recorded during field surveys whereas other species within the <i>Rhinolophus</i> genera were. Nevertheless, suitable habitat is present within the Project area.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence	
<i>Saccolaimus saccolaimus nudicluniatus,</i> bare-rumped sheath-tailed bat	PMST	V	Ε	The species is distributed in north-eastern QLD and the top end of the Northern Territory, and it mostly inhabits lowland areas. It is considered to be an obligate hollow-roosting species, with roosts occurring in <i>E. platyphylla</i> and <i>E. tetradonta</i> . Known habitats include poplar gum woodland and Darwin stringybark woodland. It is presumed to feed on aerial insects well above the tree canopy (SPRAT 2021, TSSC 2016f).	Potential to occur There are no known records of the species within the Study area, with ALA indicating all records within FNQ from the coastal plain only. Notwithstanding the above, potential roosting (<i>E. platyphylla</i> dominated woodland) and foraging habitat is present.	
<i>Tachyglossus aculeatus,</i> short-beaked echidna	Wildlife Online	-	SL	This species is found in various open woodland types, savannah and rainforest (Aplin et al 2016).	Known to occur The species was recorded in multiple camera trap images across the Project area and suitable habitat is widespread.	
Reptiles						
<i>Delma mitella</i> , Atherton delma, legless lizard	PMST	V	NT	The species is known from the eastern side of the Atherton Tablelands in north-eastern QLD. It is known only from tall open forests and rainforest interfaces, within the Wet Tropics bioregion. The distribution of the species is not known to overlap with any EPBC-listed TECs (DEWHA 2008v).	Unlikely to occur There is one historic record of the species at the vere eastern edge of the broader Study area, dating from 1967 (ALA). The Project area is on the western side the Atherton Tablelands and there are no records of the species within the Project area.	
<i>Egernia rugosa</i> , yakka skink	PMST	V	V	This species is endemic to QLD where its distribution is patchy. Populations have been recorded throughout the Einsaleigh Uplands bioregion. It is found in open dry sclerophyll forest or woodland, often taking refuge among dense ground	Unlikely to occur Only the southern-most part of the Project area is within the range of the species (as documented by SPRAT). There are no historic records of the species within either the Project area or the broader Study	



	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
			vegetation, large hollow logs, cavities in soil-bound roots of fallen trees and beneath rocks. They seldom venture far from shelter sites and are extremely secretive. Core habitat for the species is within the Mulga Lands and Brigalow Belt South Bioregions. It is generally not found in rocky habitats (DoE 2014c).	area (ALA). The vast majority of the Project area comprises rocky habitats which are not suitable for the species.

Migratory Species

Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
<i>Actitis hypoleucos</i> , common sandpiper	PMST	Wetlands migratory, marine	SLC	The species utilises coastal and inland wetlands and is found amongst muddy margins or rocky shores associated with mangroves, estuaries and deltas of streams, and upstream banks including lakes, pools, billabongs, reservoirs, dams and claypans, and occasionally jetties and piers (Geering et al. 2007; Higgins and Davies 1996). Roosting and foraging occur mostly amongst mangroves; however, the species has been found to roost and feed in adjoining grasslands (Higgins and Davies 1996).	Potential to occur The species has previously been recorded within the Study area but not the Project area, with the last recorded sighting dating from 1979 (ALA). It was not observed during field surveys. There is limited potential habitat for the species within the Project area.
<i>Apus pacificus</i> , fork-tailed swift	PMST	Marine migratory, marine	SLC	The species is a non-breeding visitor to all states and territories in Australia (Higgins 1999) with records in north-east Queensland from near Cooktown to Townsville. The species mostly occurs over inland plains but sometimes above foothills, settled areas,	Known to occur The species was recorded within the Project area during the diurnal bird surveys in January 2021.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				treeless grasslands, above rainforests, wet sclerophyll forest, open forest or plantations of pines (Higgins 1999, BirdLife International 2019d), or in coastal areas over cliffs and beaches. The species exhibits foraging and movement that is completely aerial, with heights from 1-300 m above ground (SPRAT 2021).	
<i>Calidris acuminata</i> , sharp- tailed sandpiper	PMST	Migratory, marine	SLC	The species utilises muddy edges of shallow fresh or brackish wetlands with inundated or emergent sedges, grass, and mangroves. These include lagoons, swamps, lakes and pools near the coast, dams, waterholes, soaks, bore drains and swamps, saltpans and hypersaline salt-lakes inland, intertidal mudflats in sheltered bays, inlets, estuaries or seashores (SPRAT 2021). The species forages amongst inundated vegetation within wetlands or intertidal mudflats, whilst roosting occurs in mangroves (Minton and Whitelaw 2000), in vegetation at the edges of wetlands, sandy beaches and stony shores (Higgins and Davies 1996).	Potential to occur The species was not observed in field surveys and has been historically recorded within 5 km of the Project area (ALA). Minimal suitable habitat for this species is present in the Project area.
<i>Calidris melanotos</i> , pectoral sandpiper	PMST	Wetlands migratory, marine	SLC	The species prefers shallow, fresh to saline wetlands that have open fringing mudflats and low, emergent or fringing vegetation and is found at coastal lagoons, estuaries, bays, swamps, lakes, inundated grasslands, saltmarshes, river pools, creeks, floodplains and artificial wetlands (SPRAT 2021).	Potential to occur The species has not previously been recorded within the Study area (ALA) and was not observed during field surveys. There is limited suitable habitat for the species.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
<i>Crocodylus porosus</i> , salt- water crocodile	PMST	Marine migratory, marine	V	In Queensland, the species inhabits reef, coastal floodplains, tidal rivers, billabongs, and swamps (Webb et al. 1987) up to 150 km inland (Webb et al. 1983).	Unlikely to occur The species has not previously been recorded within the Study area (ALA) and was not observed during field surveys. There is no suitable habitat for the species in the Project area.
<i>Cuculus optatus</i> , Oriental cuckoo	PMST	Migratory	SLC	The species has been recorded in conifer and mixed forests, riparian shrub thickets, forest bogs, burned- out and clear-cut areas at the final stages of overgrowing (BirdLife International 2019c).	Potential to occur The species has not previously been recorded within the Study area (Wildnet or ALA) and was not observed during field surveys.
<i>Gallinago hardwickii,</i> Latham's snipe	PMST	Migratory, marine	SLC	The species occurs in permanent and ephemeral wetlands at altitudes up to 2000 m above sea level. The species preferred habitat includes open, freshwater wetlands with low, dense vegetation (swamps, flooded grasslands or heathlands, bogs) or habitat with saline or brackish water during migration and have been found in modified or artificial habitats close to human activity. Foraging and roosting habitat are characterised by areas of mud exposed or beneath shallow water with low, dense vegetation. The species is highly dispersive, moving in response to rainfall and availability of food (SPRAT 2021).	Potential to occur The species has been previously recorded within the Study area, in the General Plain wetland to the west of the Project area, in 2014 and 2015 (ALA). There is minimal suitable habitat within the Project area.
<i>Hirundo rustica</i> , barn swallow	PMST	Migratory, marine	SLC	The species occurs from sea level up to 3000 m above sea level and has been recorded in open country in coastal lowlands, near water, towns and cities, and also in or over freshwater wetlands,	Potential to occur The species has not previously been recorded within the Study area (Wildnet or ALA) and was not



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				paperbark <i>Melaleuca</i> woodland, mesophyll shrub thickets and tussock grasslands (Schodde and Mason 1999). The species prefers areas with accessible artificial structures such as barns, sheds and bridges for nesting and overhead wires or bare branches and twigs for perching, sunning and preening (Cramp 1988; Turner and Rose 1989).	observed during field surveys. However, there is suitable habitat for the species.
<i>Monarcha melanopsis,</i> black-faced monarch	PMST Wildlife Online	Migratory, marine	SLC	The species is restricted to far northern Queensland, being a summer breeding migrant from New Guinea. The species is predominantly found in rainforests, eucalypt woodlands, coastal scrub and damp gullies, but may be found in more open woodland when migrating (BirdLife International 2016a).	Known to occur Recorded within the Project area during the diurnal bird surveys in January 2021.
<i>Monarcha trivirgatus</i> , syn <i>Symposiachrus trivigatus</i> , spectacled monarch	PMST	Migratory, marine	SLC	The species inhabits dense rainforests and moist eucalypt forests of eastern and north-eastern Australia, including waterside vegetation and mangroves (BirdLife International 2017a).	Known to occur Recorded within the Project area during the October 2021 BUS.
<i>Motacilla cinerea</i> , grey wagtail	PMST	Migratory, marine	SLC	The species inhabits fast-flowing mountain streams and rivers with exposed rocks and shoals, often in forested areas, but is also found in lowland watercourses and canals where artificial waterfalls, weirs, millraces or lock gates are present. Species preferred habitat during non-breeding season includes farmyards, sewage farms, forest tracks, tea estates and town centres. Breeding habitat includes rock ledges, crevices in riverbanks, ledges in walls,	Potential to occur The species has not previously been recorded within the Study area (Wildnet or ALA) and was not observed during field surveys. However, there is suitable habitat for the species.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
				under bridges or in drainpipes (BirdLife International 2017b).	
<i>Motacilla flava</i> , yellow wagtail	PMST	Migratory, marine	SLC	The species occurs in damp or wet habitats with low vegetation including damp meadows, marshes, waterside pastures, sewage farms and bogs to damp steppe and grassy tundra (BirdLife International 2019a).	Potential to occur The species has not previously been recorded within the Study area (Wildnet or ALA) and was not observed during field surveys. There is limited suitable habitat for the species within the Project area.
<i>Myiagra cyanoleuca</i> , satin flycatcher	PMST	Migratory, marine	SLC	The species inhabits heavily vegetated gullies in eucalypt-dominated forests and taller woodlands near wetlands or watercourses, and coastal forests, woodlands, mangroves, dry open woodland with grassy ground cover during migration (BirdLife International 2017c). The species is mostly absent from rainforests (SPRAT 2021).	Known to occur Recorded within the Project area during the October 2021 BUS.
Pandion haliaetus, osprey	PMST	Migratory, marine	SLC	The species inhabits a wide range of habitats that are within 3-5 km of water bodies including salt marsh, mangrove swamp, cypress swamp, lake, bog, reservoirs or rivers that are abundant with fish (del Hoyo et al. 1994; BirdLife International 2019b). Nesting habitat includes large dead trees on cliffs but also include artificial platforms such as power poles, communication towers and buildings which have been found to have more successful fledging during breeding (del Hoyo et al. 1994; BirdLife International 2019b).	Potential to occur There is a single record of the species dating from 2004 at the north-eastern extent of the Study area (ALA). It was not observed in field surveys and there is limited potential habitat within the Project area.



Species Name	Data Source	EPBC Act Status	NC Act Status	Habitat and Ecology	Likelihood of Occurrence
<i>Rhipidura rufifrons</i> , rufous fantail	PMST	Migratory, marine	SLC	The species inhabits dense, shady undergrowth of gullies in moist eucalypt forests and rainforests. The species prefers habitat with deep shading and is often seen close to the ground. The species may be found in more open habitats during migration (SPRAT).	Known to occur The species has previously been recorded on the boundary of the Project area with the Wet Tropics WHA, in 1995 (ALA). One individual was recorded on camera trap during the field surveys.
<i>Tringa nebularia</i> , common greenshank	PMST	Migratory, marine	SLC	The species occurs in sheltered coastal habitats typically with large mudflats, saltmarshes, mangroves, or seagrass with fringing or emergent vegetation. These include embayments, harbours, river estuaries, deltas and lagoons, ephemeral and permanent wetlands such as swamps, lakes, dams, rivers, creeks, billabongs, waterholes and inundated floodplains, claypans and saltflats. The species has also been found in artificial wetlands (BirdLife International 2016b).	Potential to occur There is a single record of the species within the Study area, dating from 2015 (ALA). It was not observed during field surveys and there is minimal potential habitat within the Project area.

Appendix D

Preliminary Vegetation Management Plan



Preliminary Vegetation Management Plan Chalumbin Wind Farm

Prepared for: Chalumbin Wind Farm Pty Ltd

December 2021





Document Information

DOCUMENT	Preliminary Vegetation Management Plan
ATTEXO REF	EPU-004
DATE	10-12-2021
PREPARED BY	Selina Carruthers - Ecologist
REVIEWED BY	Nikki O'Donnell – Principal Consultant – Biodiversity and Impact Assessment

Quality Information

REVISION DATE	DATE	DETAILS	AUTHORISATION			
	DAIL		Name/Position	Signature		
0	10-12-21	Issued for use	Chris Cantwell Partner & Principal Consultant	gin		

Prepared for:

Chalumbin Wind Farm Pty Ltd

Prepared by:

Attexo Group Pty Ltd attexo.com.au ABN 75 637 138 008

Attexo Group Pty Ltd 2021

The information contained in this document produced by Attexo Group Pty Ltd is solely for the use of the Client identified on the cover sheet for the purpose for which it has been prepared and Attexo Group Pty Ltd undertakes no duty to or accepts any responsibility to any third party who may rely upon this document. All rights reserved. No section or element of this document may be removed from this document, reproduced, electronically stored or transmitted in any form without the consent of Attexo Group Pty Ltd.



Contents

1.0	Intro	oduction	4
	1.1	Background	4
	1.2	Purpose	4
	1.3	Project Description	4
2.0	Rele	evant Legislation	7
	2.1	Commonwealth Legislation	7
	2.2	State Legislation	7
3.0	Exis	ting Environment and Ecological Values	9
	3.1	Regional Ecosystems and Vegetation Communities	9
	3.2	Threatened Flora Species	13
	3.3	Restricted and Prohibited Weed Species	17
4.0	Imp	acts and Risks	
	4.1	Vegetation Communities	
	4.2	EVNT Flora	21
	4.3	Invasive Flora	21
	4.4	Land Degradation	21
	4.5	Bushfire	21
5.0	Imp	act Avoidance, Management and Mitigation	23
	5.1	Avoidance	23
	5.2	Minimisation and Mitigation	23
6.0	Com	npliance	
	6.1	Roles and Responsibilities	
	6.2	Adaptive Approach to Management	
	6.3	Induction and Training	
	6.4	Pre-start Briefing	
	6.5	Incident Management	
	6.6	Emergency Response	
7.0	Refe	erences	

Figures

Figure 1-1	Project Footprint	6
	REs Within the Project Footprint	
Figure 3-2	High-risk Trigger Mapping	15
Figure 3-3	Protected Plants Recorded Within the Project Area	16



Tables

Table 3.1	Ground-truthed Regional Ecosystems in the Project footprint	9
Table 3.2	Vegetation Communities in the Project Footprint	13
Table 4.1	GTRE Within the Project Footprint	18
Table 5.1	Management and mitigation actions for vegetation clearing	23



1.0 Introduction

1.1 Background

Chalumbin Wind Farm Pty Ltd (CWF), a subsidiary of Epuron Projects Pty Ltd (Epuron), proposes to develop the Chalumbin Wind Farm Project (the Project) at a location approximately 15 km south-west of Ravenshoe in Far North Queensland within the Tablelands Regional Council Local Government Area (LGA), see **Figure 1.1**. The Project area (which encompasses the land parcels within which infrastructure is proposed, including parts of the Wooroora Road reserve) is a total of 31,620.9 ha. The Project footprint to construct and operate the Project (i.e. maximum area of disturbance) is a much smaller area within these land parcels, being a total of 1,132 ha (3.58 % of the Project area).

1.2 Purpose

The purpose of this Preliminary Vegetation Management Plan (VMP) is to ensure appropriate guidelines and methods are in place to manage potential impacts to vegetation associated with Project development and operation activities. This VMP describes the activities to manage any vegetation clearing required as part of Project construction, to maintain retained vegetation, and to restore vegetation and habitat in temporarily disturbed areas.

This VMP has also been prepared to comply with Performance Outcome PO5 under State Code 23: Wind Farm Development. Specifically, the objectives of this VMP are to:

- Assess potential impacts to native vegetation communities and threatened flora species identified in the Ecological Assessment Report (EAR) for the Project; and
- Identify appropriate actions for avoidance, mitigation and management of potential impacts to native vegetation and threatened flora species, and to maintain these ecological values in the Project area.

1.3 Project Description

1.3.1 Project Components

The Project is proposed to consist of up to 94 wind turbines, linking access tracks and associated infrastructure including a new Powerlink connection substation and wind farm collector substations, permanent meteorological monitoring masts (met masts), medium and high-voltage underground and overhead powerlines, temporary construction compound, laydown and stockpile areas, and temporary and permanent site offices for asset management and operation and maintenance facilities. The full description of the Project is provided in section 3.0 of the Planning Report to support the Development Application for the Project.

1.3.2 Project Stages

The Project has three stages, and activities associated with each stage are summarised in the following sections.

1.3.2.1 Construction

Construction is expected to commence in early 2023, subject to approvals and commercial considerations. The construction phase is expected to last for a period of approximately 24-18 months, with approximately 250 to 350 staff employed during the peak construction period.



1.3.2.2 Operations

The operational life of the wind farm is expected to be 30 years. Approximately 15 to 30 full-time jobs will be generated during operation, typically 10 to 20 technicians along with a Project Manager, administration, and other support roles. This will include environmental roles on an as-needed basis to assist in operational monitoring.

1.3.2.3 Decommissioning

Infrastructure may be repowered with new equipment for a further 30-year operating life, or decommissioned, with the site rehabilitated to facilitate continuation of the current land use (agriculture) or alternative land use. If decommissioned, most above-ground infrastructure apart from roads (which are left to benefit the landholders) will be removed (e.g., all turbines, transmission lines, etc). The land will then be rehabilitated in line with development permit conditions and specific landowner agreements. Some infrastructure may remain in-situ depending on landowner preferences.