

11 November 2019

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ST LEONARDS NSW 2065



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Cc: David.Walker@premise.com.au

Dear Ross Gardner,

**Re: 19-685 Bega TAFE Ecology Report**

Thank you for the opportunity to assess the vegetation at Bega TAFE Campus for the new building on Lot 2 DP 1243054 (refer to Attachment A.1). It is understood that you are submitting a development application and require a concise assessment of the flora and fauna values of the site and confirmation as to whether you trigger the Biodiversity Offset Scheme, under the NSW *Biodiversity Conservation Act 2016* (BC Act). After our site assessment and further considerations under the *BC Act*, we determined that:

- The vegetation on site is planted exotic trees with a predominantly exotic groundcover.
- There were a few individuals of Wallaby grass scattered in parts of the site.
- The site is not located in an area mapped with Biodiversity Values.
- No 5-part test assessing significant impacts on threatened entities was required.
- There is no potential for impacts on threatened flora, fauna, populations or communities.
- The existing trees are likely to support local urban biodiversity such as common mammals and birds; there are further considerations for these matters in the recommendations.

If you have any questions about the following information, please contact me on the contact details below.

Yours sincerely,

**Nick Graham-Higgs**  
Director  
NGH



**BEGA**

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ABN 31 124 444 622 ACN 124 444 622

## Background

A Biodiversity Assessment Methodology (BAM) assessment, pursuant to *the Biodiversity Conservation Act 2016* (BC Act), is now required for Part 4 developments that trigger the NSW Biodiversity Offsets Scheme (BOS).

The development site does not trigger the BOS for the following reasons:

- The minimum lot size for study area site is 550m<sup>2</sup>. Under the BOS, clearance for sites <1 ha allows clearance of 0.25 hectares of native vegetation. The proposed development would not clear native vegetation.
- The development site is not within areas on the Biodiversity Values Map (see attachment A.2)
- The clearing will not lead to a significant impact on a species listed under the BC Act.

## Vegetation on site

The vegetation on site is non-native trees and exotic ground cover. There was very little native vegetation on site. There were scattered individuals of Wallaby grass (*Rytidosperma* sp.).

It is possible there are hollows or nests in the trees that were not observed during the site survey. For this reason, timing of tree removal works should be outside of breeding periods such as spring and summer or removal of the trees with fauna salvage.

The habitat features at this site include:

- Canopy trees provide shelter and a food source to local fauna particularly possums and birds
- Dense canopy of exotic cypress trees, plane trees, maples and ash provides nesting opportunities for birds.
- Although no hollows were observed (mainly due to the age of the trees), there may be fractures or previous limb failures in the upper canopy that could not be observed during the site assessment that support fauna.
- The site does not connect to a larger patch of vegetation so there are no corridors which will limit the dispersal for any fauna utilising these trees.

To determine if the removal of non-native trees and ground cover would impact any threatened flora, fauna or populations; two background database searches were undertaken for threatened flora, fauna and threatened vegetation communities on October 22<sup>nd</sup>, 2019.

## Background search results for threatened entities

### Matters of National Environmental Significance

From these background searches, the Matters of National Environmental Significance search includes a 10 km buffer surrounding the development site. The results are included in attachment A5.

The threatened community that is likely to occur in this area is the Lowland Grassy Woodland in the South East Corner Bioregion. None of the native species associated with this community are present in the development site so this vegetation community is not present on site.

The threatened flora with potential to occur included 1- species and this species was not present within the development site.

The fauna with potential to occur included seven mammals, one insect, four amphibians and 18 birds. An assessment of the potential for these species to occur on the development site was completed in Attachment A.3. Note albatross, freshwater and marine species were not included as these habitats were not present.

## NSW database search results

The NSW database search included a buffer of 10km from the development site. There were five flora species previously recorded.

The fauna records include three amphibians, 33 birds and 17 mammals.

The atlas search results for the location of the threatened flora and fauna records can be found in attachment A.3.

An assessment of the potential for these species to occur on the development site was completed in Attachment A.5.

## Assessment of impacts

The removal of the non-native canopy trees and associated groundcover will not impact any threatened entities. But the removal of these trees will impact local fauna that are common in urban landscapes such as birds and possums. As previously mentioned, it is possible the impact will remove nests or unobserved hollows, therefore further salvage methods should minimise these impacts.

The flora and fauna tables in attachment A4 present the habitat evaluation for threatened species listed for the study locality in the *Atlas of NSW Wildlife*<sup>1</sup> and those identified as potentially occurring in the area according to the Commonwealth EPBC *Protected Matters Search Tool*<sup>2</sup>.

The likelihood of occurrence is based on presence of habitat, proximity of nearest records and mobility of the species (where relevant). The assessment of potential impact is based on the nature of the proposal, the ecology of the species and its likelihood of occurrence. The following classifications are used:

### Presence of habitat:

- Present: Potential or known habitat is present within the study area
- Marginal: Habitat present that could be used by the species on occasion but not preferred
- Absent: No potential or known habitat is present within the study area

### Likelihood of occurrence

- Recorded: The species was observed in the study area during the current survey
- High: It is highly likely that a species inhabits the study area and is dependent on identified suitable habitat (i.e. for breeding or important life cycle periods such as winter flowering resources), has been recorded recently in the locality (10km) and is known or likely to maintain resident

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<sup>1</sup> The *Atlas of NSW Wildlife* is administered by the NSW Department of Environment & Heritage (OEH) and is an online database of fauna and flora records that contains over four million recorded sightings.

<sup>2</sup> This online tool is designed for the public to search for matters protected under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). It is managed by the Commonwealth Department of the Environment and Energy.

populations in the study area. Also includes species known or likely to visit the study area during regular seasonal movements or migration.

- Moderate: Potential habitat is present in the study area. Species unlikely to maintain sedentary populations, however, may seasonally use resources within the study area opportunistically or during migration. The species is unlikely to be dependent (i.e. for breeding or important life cycle periods such as winter flowering resources) on habitat within the study area, or habitat is in a modified or degraded state. Includes cryptic flowering flora species that were not seasonally targeted by surveys and that have not been recorded.
- Low: It is unlikely that the species inhabits the study area and has not been recorded recently in the locality (10km). It may be an occasional visitor, but habitat similar to the study area is widely distributed in the local area, meaning that the species is not dependent (i.e. for breeding or important life cycle periods such as winter flowering resources) on available habitat. Specific habitat is not present in the study area or the species are a non-cryptic perennial flora species that were specifically targeted by surveys and not recorded.
- None: Suitable habitat is absent from the study area.

### Test of Significance

Under the *Biodiversity Conservation Act 2016*, the threatened species 'test of significance' is used to determine if a development or activity is likely to significantly affect threatened species or ecological communities, or their habitats. It is sometimes also referred to as the '5-part test'

A 5 part test is not required for this site as there is no 'significant' of impact on any threatened entity. But given the density of the canopy of the cypress trees, it is likely that there are small birds and possibly mammals utilising these trees.

### Conclusion and Recommendations

No five part test required. No threatened communities were present on site and there were no likely impacts to threatened flora and fauna.

From this assessment, the recommendations to minimise impacts to common local fauna include:



1. Staged removal of the upper canopy and checking for any nests or drays.
2. Wildlife handler on call should any fauna require handling or capture and if necessary, relocate to a suitable location as close to the subject site as possible.
3. Avoid removing trees during spring and early summer to reduce risk of displacing mammals or nesting birds with young
4. Follow best practices in removal of trees in development areas.
5. Trees to be retained should be fenced during tree removal works and construction works.
6. Retained trees should be fenced based on ASAS 4970-2009: Protection of trees on development sites

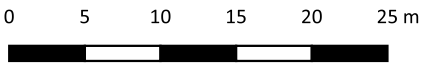
# Attachments

## A1. Site Layout





- Legend
-  Subject land
  -  Development footprint



Data Attribution  
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© NSW LPI 2019

Ref: 19-683\_Bega\_TAFE \ Development footprint  
Author: T.Hastings  
Date created: 15.10.2019  
Datum: GDA94 / MGA zone 55



**NGH**





**A2. Biodiversity Values Map**





0 0.25 0.5 km



Data Attribution  
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## Biodiversity Values

### Legend

-  Subject land
-  Development footprint

### Biodiversity Values

-  Biodiversity Values
-  Biodiversity Values added in the last 90 days

Ref: 19-683\_Bega\_TAFE \ Biodiversity  
Values  
Author: T.Hastings  
Date created: 15.10.2019  
Datum: GDA94 / MGA zone 55

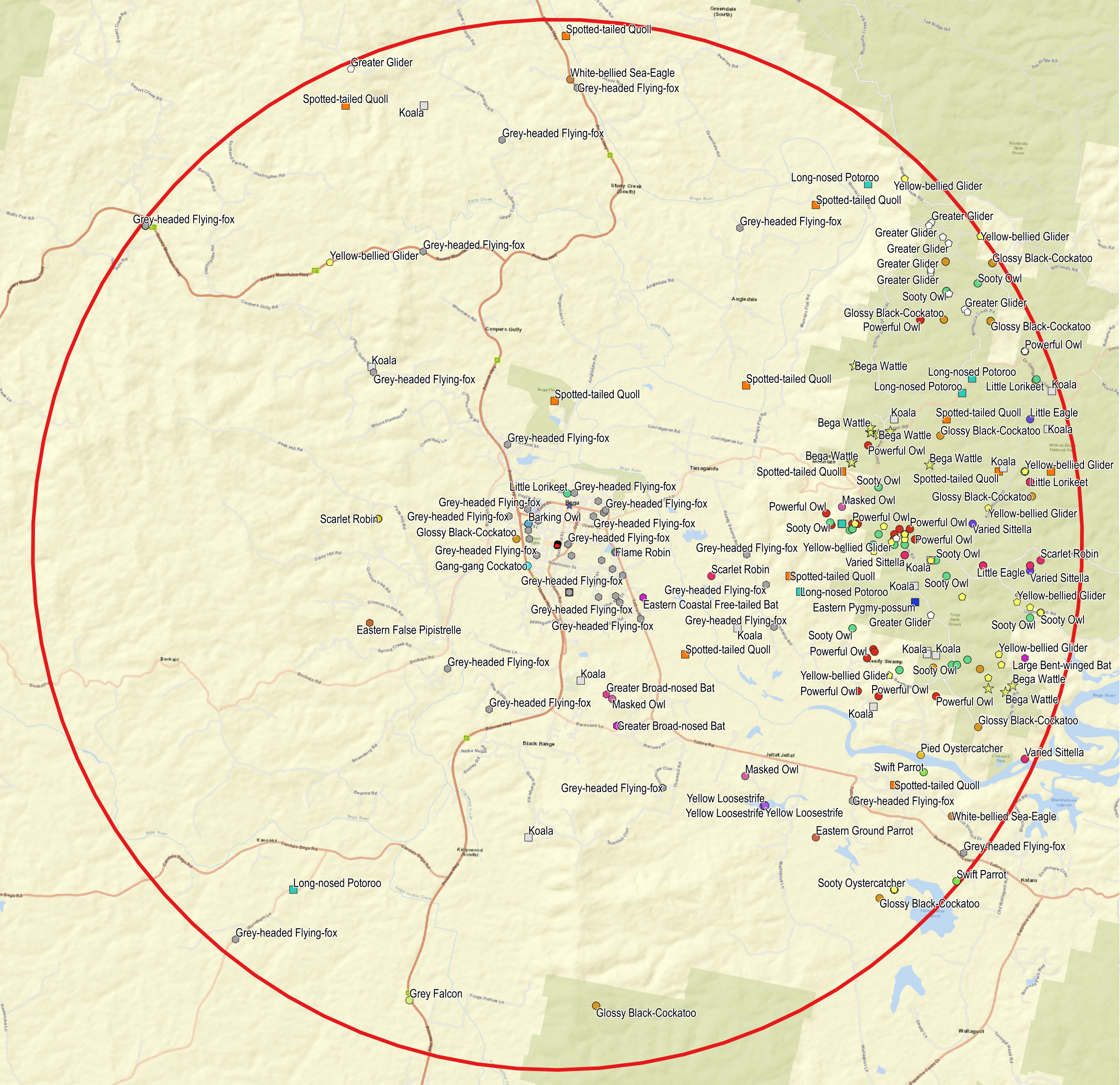


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### A3. Threatened Species Map





Legend

19-685\_subject\_land\_151019

Atlas records

- Australasian Bittern
- Barking Owl
- Bega Wattle
- Blue-billed Duck
- Brush-tailed Rock-wallaby
- Diamond Firetail
- Dusky Woodswallow
- Eastern Coastal Free-tailed Bat
- Eastern False Pipistrelle
- Eastern Ground Parrot
- Eastern Pygmy-possum
- Flame Robin
- Gang-gang Cockatoo
- Glossy Black-Cockatoo
- Greater Broad-nosed Bat
- Greater Glider
- Grey Falcon
- Grey-headed Flying-fox
- Koala
- Large Bent-winged Bat

- Little Eagle
- Little Lorikeet
- Long-nosed Potoroo
- Masked Owl
- Merimbula Star-hair
- Narrow-leaved Black Peppermint
- Pied Oystercatcher
- Powerful Owl
- Scarlet Robin
- Sooty Owl
- Sooty Oystercatcher
- Southern Myotis
- Spotted-tailed Quoll
- Square-tailed Kite
- Squirrel Glider
- Swift Parrot
- Varied Sittella
- White-bellied Sea-Eagle
- White-footed Dunnart
- Yellow Loosestrife
- Yellow-bellied Glider
- Yellow-bellied Sheath-tail-bat



Data Attribution  
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Basemap © NSW LPI 2019  
Atlas records © OEH 2019

Ref: 19-683\_Bega\_TAFE \Atlas  
Author: T.Hastings  
Date created: 15.10.2019  
Datum: GDA94 / MGA zone 55



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## **A4. Matters of National Significance Search**





# EPBC Act Protected Matters Report

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

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 15/10/19 12:55:20

[Summary](#)

[Details](#)

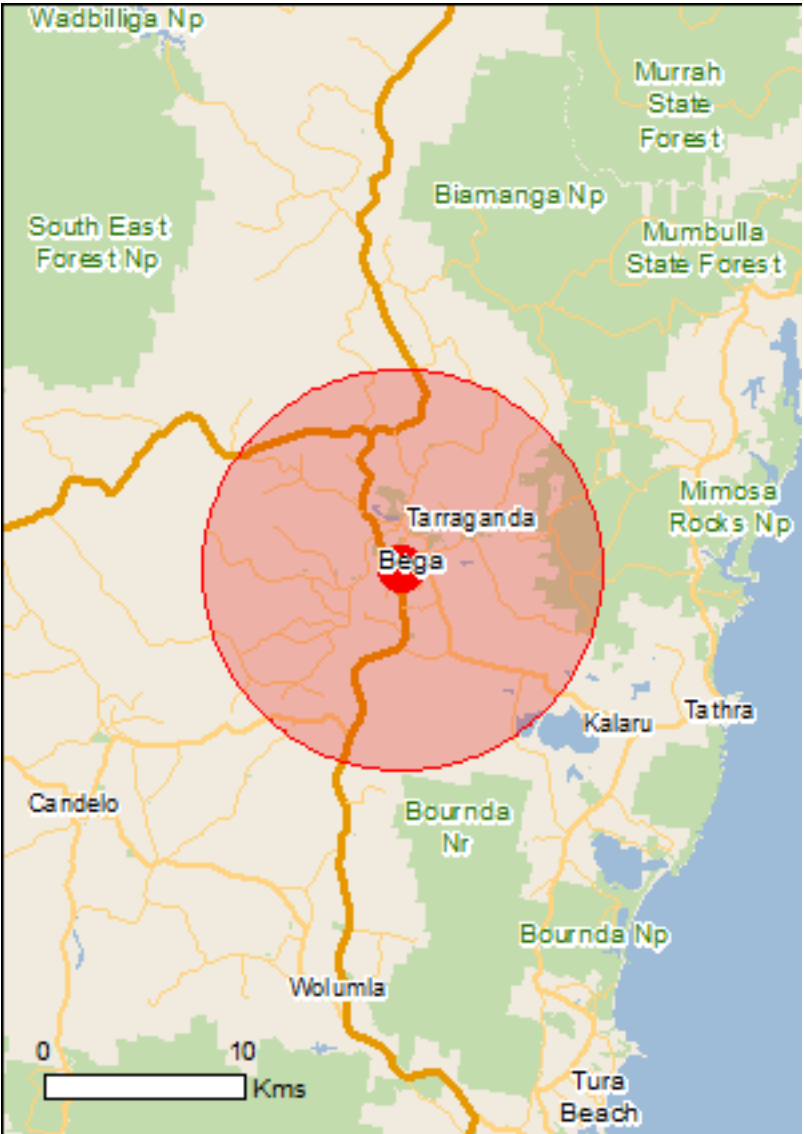
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

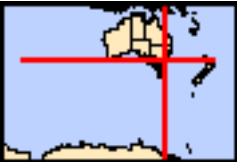
[Acknowledgements](#)



This map may contain data which are  
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[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 [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	1
<a href="#">Listed Threatened Species:</a>	61
<a href="#">Listed Migratory Species:</a>	36

## Other Matters Protected by the EPBC Act

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

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

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

<a href="#">Commonwealth Land:</a>	4
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	46
<a href="#">Whales and Other Cetaceans:</a>	None
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	None

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	3
<a href="#">Regional Forest Agreements:</a>	1
<a href="#">Invasive Species:</a>	37
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">Key Ecological Features (Marine)</a>	None

# Details

## Matters of National Environmental Significance

Listed Threatened Ecological Communities

[ Resource Information ]

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

Name	Status	Type of Presence
<a href="#">Lowland Grassy Woodland in the South East Corner Bioregion</a>	Critically Endangered	Community likely to occur within area

Listed Threatened Species

[ Resource Information ]

Name	Status	Type of Presence
Birds		

<a href="#">Anthochaera phrygia</a> Regent Honeyeater [82338]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Botaurus poiciloptilus</a> Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Dasyornis brachypterus</a> Eastern Bristlebird [533]	Endangered	Species or species habitat likely to occur within area
<a href="#">Diomedea antipodensis</a> Antipodean Albatross [64458]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea antipodensis gibsoni</a> Gibson's Albatross [82270]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area
<a href="#">Grantiella picta</a> Painted Honeyeater [470]	Vulnerable	Species or species habitat may occur within



Name	Status	Type of Presence
<a href="#">Hirundapus caudacutus</a> White-throated Needletail [682]	Vulnerable	area  Species or species habitat known to occur within area
<a href="#">Lathamus discolor</a> Swift Parrot [744]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Limosa lapponica baueri</a> Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat may occur within area
<a href="#">Limosa lapponica menzbieri</a> Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#">Neophema chrysogaster</a> Orange-bellied Parrot [747]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Pachyptila turtur subantarctica</a> Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Rostratula australis</a> Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<a href="#">Sternula nereis nereis</a> Australian Fairy Tern [82950]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Thalassarche bulleri</a> Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche bulleri platei</a> Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche cauta cauta</a> Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Thalassarche cauta steadi</a> White-capped Albatross [82344]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Thalassarche eremita</a> Chatham Albatross [64457]	Endangered	Species or species habitat likely to occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area

Name	Status	Type of Presence
<a href="#">Thalassarche salvini</a> Salvin's Albatross [64463]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Thinornis rubricollis rubricollis</a> Hooded Plover (eastern) [66726]	Vulnerable	Species or species habitat may occur within area
Fish		
<a href="#">Epinephelus daemeli</a> Black Rockcod, Black Cod, Saddled Rockcod [68449]	Vulnerable	Species or species habitat may occur within area
<a href="#">Prototroctes maraena</a> Australian Grayling [26179]	Vulnerable	Species or species habitat known to occur within area
Frogs		
<a href="#">Heleioporus australiacus</a> Giant Burrowing Frog [1973]	Vulnerable	Species or species habitat may occur within area
<a href="#">Litoria aurea</a> Green and Golden Bell Frog [1870]	Vulnerable	Species or species habitat may occur within area
<a href="#">Litoria littlejohni</a> Littlejohn's Tree Frog, Heath Frog [64733]	Vulnerable	Species or species habitat may occur within area
<a href="#">Mixophyes balbus</a> Stuttering Frog, Southern Barred Frog (in Victoria) [1942]	Vulnerable	Species or species habitat likely to occur within area
Insects		
<a href="#">Synemon plana</a> Golden Sun Moth [25234]	Critically Endangered	Species or species habitat may occur within area
Mammals		
<a href="#">Dasyurus maculatus maculatus (SE mainland population)</a> Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat known to occur within area
<a href="#">Isoodon obesulus obesulus</a> Southern Brown Bandicoot (eastern), Southern Brown Bandicoot (south-eastern) [68050]	Endangered	Species or species habitat may occur within area
<a href="#">Petauroides volans</a> Greater Glider [254]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Petrogale penicillata</a> Brush-tailed Rock-wallaby [225]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)</a> Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Potorous tridactylus tridactylus</a> Long-nosed Potoroo (SE Mainland) [66645]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pseudomys fumeus</a> Smoky Mouse, Konoom [88]	Endangered	Species or species habitat may occur within area
<a href="#">Pteropus poliocephalus</a> Grey-headed Flying-fox [186]	Vulnerable	Roosting known to occur within area
Plants		

Name	Status	Type of Presence
<a href="#">Acacia georgensis</a> Bega Wattle [9848]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Caladenia tessellata</a> Thick-lipped Spider-orchid, Daddy Long-legs [2119]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Correa baeuerlenii</a> Chef's Cap [17007]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Cryptostylis hunteriana</a> Leafless Tongue-orchid [19533]	Vulnerable	Species or species habitat may occur within area
<a href="#">Persicaria elatior</a> Knotweed, Tall Knotweed [5831]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Pomaderris cotoneaster</a> Cotoneaster Pomaderris [2043]	Endangered	Species or species habitat likely to occur within area
<a href="#">Pomaderris parrisiae</a> Parris' Pomaderris [22119]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Thesium australe</a> Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat may occur within area
<a href="#">Xerochrysum palustre</a> Swamp Everlasting, Swamp Paper Daisy [76215]	Vulnerable	Species or species habitat may occur within area
<a href="#">Zieria tuberculata</a> Warty Zieria [56736]	Vulnerable	Species or species habitat may occur within area

Reptiles		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat may occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat may occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat may occur within area

Listed Migratory Species		[ Resource Information ]
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Migratory Marine Birds		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardenna grisea</a> Sooty Shearwater [82651]		Species or species habitat likely to occur



Name	Threatened	Type of Presence
		within area
<a href="#">Diomedea antipodensis</a> Antipodean Albatross [64458]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche bulleri</a> Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche cauta</a> Tasmanian Shy Albatross [89224]	Vulnerable*	Species or species habitat likely to occur within area
<a href="#">Thalassarche eremita</a> Chatham Albatross [64457]	Endangered	Species or species habitat likely to occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche salvini</a> Salvin's Albatross [64463]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable*	Species or species habitat likely to occur within area
Migratory Marine Species		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat may occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat may occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Lamna nasus</a> Porbeagle, Mackerel Shark [83288]		Species or species habitat likely to occur

Name	Threatened	Type of Presence
		within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat may occur within area
Migratory Terrestrial Species		
<a href="#">Cuculus optatus</a> Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat known to occur within area
<a href="#">Hirundapus caudacutus</a> White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Monarcha melanopsis</a> Black-faced Monarch [609]		Species or species habitat known to occur within area
<a href="#">Myiagra cyanoleuca</a> Satin Flycatcher [612]		Species or species habitat known to occur within area
<a href="#">Rhipidura rufifrons</a> Rufous Fantail [592]		Species or species habitat known to occur within area
Migratory Wetlands Species		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat likely to occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat likely to occur within area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land

[ Resource Information ]

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

Name
Commonwealth Land - Australian Telecommunications Commission
Commonwealth Land - Australian Telecommunications Corporation
Commonwealth Land - Defence Service Homes Corporation
Commonwealth Land - Telstra Corporation Limited

Listed Marine Species

[ Resource Information ]

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

Name	Threatened	Type of Presence
Birds		
<a href="#">Actitis hypoleucos</a>		
Common Sandpiper [59309]		Species or species habitat likely to occur within area
<a href="#">Apus pacificus</a>		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardea alba</a>		
Great Egret, White Egret [59541]		Species or species habitat known to occur within area
<a href="#">Ardea ibis</a>		
Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Calidris acuminata</a>		
Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
<a href="#">Calidris canutus</a>		
Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a>		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris melanotos</a>		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#">Diomedea antipodensis</a>		
Antipodean Albatross [64458]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea epomophora</a>		
Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea exulans</a>		
Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea gibsoni</a>		
Gibson's Albatross [64466]	Vulnerable*	Species or species habitat likely to occur within area
<a href="#">Diomedea sanfordi</a>		
Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area



Name	Threatened	Type of Presence
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#">Hirundapus caudacutus</a> White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Lathamus discolor</a> Swift Parrot [744]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Limosa lapponica</a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#">Monarcha melanopsis</a> Black-faced Monarch [609]		Species or species habitat known to occur within area
<a href="#">Myiagra cyanoleuca</a> Satin Flycatcher [612]		Species or species habitat known to occur within area
<a href="#">Neophema chrysogaster</a> Orange-bellied Parrot [747]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Pachyptila turtur</a> Fairy Prion [1066]		Species or species habitat known to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat likely to occur within area
<a href="#">Puffinus griseus</a> Sooty Shearwater [1024]		Species or species habitat likely to occur within area
<a href="#">Rhipidura rufifrons</a> Rufous Fantail [592]		Species or species habitat known to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
<a href="#">Thalassarche bulleri</a> Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Thalassarche cauta</a> Tasmanian Shy Albatross [89224]	Vulnerable*	Species or species habitat likely to occur within area
<a href="#">Thalassarche eremita</a> Chatham Albatross [64457]	Endangered	Species or species habitat likely to occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche salvini</a> Salvin's Albatross [64463]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Thalassarche sp. nov.</a> Pacific Albatross [66511]	Vulnerable*	Species or species habitat may occur within area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable*	Species or species habitat likely to occur within area
<a href="#">Thinornis rubricollis</a> Hooded Plover [59510]		Species or species habitat may occur within area
<a href="#">Thinornis rubricollis rubricollis</a> Hooded Plover (eastern) [66726]	Vulnerable	Species or species habitat may occur within area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
Reptiles		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat may occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat may occur within area
<a href="#">Eretmochelys imbricata</a> Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat may occur within area

Extra Information

State and Territory Reserves		[ Resource Information ]
Name		State
Bournda		NSW
Mimosa Rocks		NSW
Tanja		NSW

Regional Forest Agreements		[ Resource Information ]
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Note that all areas with completed RFAs have been included.

Name		State
<a href="#">Eden RFA</a>		New South Wales

Invasive Species		[ Resource Information ]
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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			
Acridotheres tristis			
Common Myna, Indian Myna [387]			Species or species habitat likely to occur within area
Alauda arvensis			
Skylark [656]			Species or species habitat likely to occur within area
Anas platyrhynchos			
Mallard [974]			Species or species habitat likely to occur within area
Carduelis carduelis			
European Goldfinch [403]			Species or species habitat likely to occur within area
Columba livia			
Rock Pigeon, Rock Dove, Domestic Pigeon [803]			Species or species habitat likely to occur within area
Passer domesticus			
House Sparrow [405]			Species or species habitat likely to occur within area
Streptopelia chinensis			
Spotted Turtle-Dove [780]			Species or species habitat likely to occur within area
Sturnus vulgaris			
Common Starling [389]			Species or species habitat likely to occur within area
Turdus merula			
Common Blackbird, Eurasian Blackbird [596]			Species or species habitat likely to occur within area
Mammals			
Bos taurus			
Domestic Cattle [16]			Species or species habitat likely to occur within area
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



Name	Status	Type of Presence
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Lepus capensis Brown Hare [127]		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
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Asparagus scandens Asparagus Fern, Climbing Asparagus Fern [23255]		Species or species habitat likely to occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
Chrysanthemoides monilifera subsp. rotundata Bitou Bush [16332]		Species or species habitat likely to occur within area
Cytisus scoparius Broom, English Broom, Scotch Broom, Common Broom, Scottish Broom, Spanish Broom [5934]		Species or species habitat likely to occur within area
Genista linifolia Flax-leaved Broom, Mediterranean Broom, Flax Broom [2800]		Species or species habitat likely to occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Nassella neesiana Chilean Needle grass [67699]		Species or species habitat likely to occur within area
Nassella trichotoma Serrated Tussock, Yass River Tussock, Yass Tussock, Nassella Tussock (NZ) [18884]		Species or species habitat likely to occur

Name	Status	Type of Presence
Opuntia spp. Prickly Pears [82753]		within area  Species or species habitat likely to occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Senecio madagascariensis Fireweed, Madagascar Ragwort, Madagascar Groundsel [2624]		Species or species habitat likely to occur within area
Ulex europaeus Gorse, Furze [7693]		Species or species habitat likely to occur within area

# Caveat

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

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

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

-36.68092 149.83881



# Acknowledgements

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

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

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

Please feel free to provide feedback via the [Contact Us](#) page.

## A5. NSW Threatened Species

### THREATENED FAUNA

Scientific Name	Common Name	NSW Status	EPBC Status	Date of Sighting	Number Individuals	Presence of Habitat	Likelihood of Occurrence
<b>Amphibians</b>							
<i>Litoria aurea</i>	Green and Golden Bell Frog	E1, P	V	26/02/1996	1	Absent	Low - no suitable habitat
<i>Litoria littlejohni</i>	Littlejohn's Tree Frog	V, P	V	15/02/2007	1	Absent	Low - no suitable habitat
<i>Mixophyes balbus</i>	Stuttering Frog	E1, P,2	V	22/02/1995		Absent	Low - no suitable habitat
<b>Birds</b>							
<i>Grantiella picta</i>	Painted Honeyeater		V			Absent	Low - no suitable habitat
<i>Botaurus poiciloptilus</i>	Australasian Bittern	E1, P	E	10/08/1996	2	Absent	Low - no suitable habitat
<i>Ninox connivens</i>	Barking Owl	V, P,3		7/03/2010	1	Absent	Low - no suitable habitat
<i>Oxyura australis</i>	Blue-billed Duck	V, P		30/06/1981	1	Absent	Low - no suitable habitat
<i>Climacteris picumnus victoriae</i>	Brown Treecreeper (eastern subspecies)	V, P		25/02/2010	1	Absent	Low - no suitable habitat
<i>Calidris ferruginea</i>	Curlew Sandpiper	E1, P	CE, C, J, K	16/11/1982	53	Absent	Low - no suitable habitat
<i>Stagonopleura guttata</i>	Diamond Firetail	V, P		29/04/2017 21:43	1	Absent	Low - no suitable habitat
<i>Artamus cyanopterus cyanopterus</i>	Dusky Woodswallow	V, P		31/10/2001	2	Absent	Low - no suitable habitat
<i>Numenius madagascariensis</i>	Eastern Curlew	P	CE, C, J, K	1/09/1996		Absent	Low - no suitable habitat
<i>Pezoporus wallicus wallicus</i>	Eastern Ground Parrot	V, P,3		1/03/1998	1	Absent	Low - no suitable habitat
<i>Petroica phoenicea</i>	Flame Robin	V, P		29/04/2017 21:43	1	Absent	Low - no suitable habitat
<i>Callocephalon fimbriatum</i>	Gang-gang Cockatoo	V, P,3		10/04/2013	2	Absent	Low - no suitable habitat. May fly over
<i>Calyptrorhynchus lathamii</i>	Glossy Black-Cockatoo	V, P,2		10/03/2017	1	Absent	Low - no suitable habitat
<i>Falco hypoleucos</i>	Grey Falcon	E1, P,2		19/09/1982	1	Absent	Low - no suitable habitat

<i>Thinornis rubricollis</i>	Hooded Plover	E4A, P	V	24/03/1995	2	Absent	Low - no suitable habitat
<i>Charadrius mongolus</i>	Lesser Sand-plover	V, P	E, C, J, K	31/12/1996		Absent	Low - no suitable habitat
<i>Hieraaetus morphnoides</i>	Little Eagle	V, P		22/02/2010	1	Absent	Low - no suitable habitat. May fly over
<i>Glossopsitta pusilla</i>	Little Lorikeet	V, P		12/01/2017 16:17	8	Absent	Low - no suitable habitat
<i>Sternula albifrons</i>	Little Tern	E1, P	C, J, K	25/11/2006		Absent	Low - no suitable habitat
<i>Anseranas semipalmata</i>	Magpie Goose	V, P		1/09/1996		Absent	Low - no suitable habitat
<i>Tyto novaehollandiae</i>	Masked Owl	V, P,3		2/03/2011	1	Absent	Low - no suitable habitat. May fly over
<i>Pachycephala olivacea</i>	Olive Whistler	V, P		18/10/2006	1	Absent	Low - no suitable habitat
<i>Haematopus longirostris</i>	Pied Oystercatcher	E1, P		31/03/2011		Absent	Low - no suitable habitat
<i>Petroica rodinogaster</i>	Pink Robin	V, P		31/05/1994	2	Absent	Low - no suitable habitat
<i>Ninox strenua</i>	Powerful Owl	V, P,3		21/04/2008	1	Absent	Low - no suitable habitat. May fly over
<i>Anthochaera phrygia</i>	Regent Honeyeater	E4A, P	CE	19/04/2010	1	Absent	Low - no suitable habitat
<i>Petroica boodang</i>	Scarlet Robin	V, P		30/08/2009		Absent	Low - no suitable habitat
<i>Tyto tenebricosa</i>	Sooty Owl	V, P,3		12/03/2010	1	Absent	Low - no suitable habitat
<i>Haematopus fuliginosus</i>	Sooty Oystercatcher	V, P		31/12/1996		Absent	Low - no suitable habitat
<i>Lophoictinia isura</i>	Square-tailed Kite	V, P,3		26/08/1996	1	Absent	Low - no suitable habitat
<i>Lathamus discolor</i>	Swift Parrot	E1, P,3	CE	28/04/2012	8	Absent	Low - no suitable habitat. May fly over
<i>Daphoenositta chrysoptera</i>	Varied Sittella	V, P		31/10/1999	1	Absent	Low - no suitable habitat
<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	V, P	C	16/02/2017		Absent	Low - no suitable habitat. May fly over



<i>Epthianura albifrons</i>	White-fronted Chat	V, P		18/11/1982		Absent	Low - no suitable habitat
<i>Hirundapus caudacutus</i>	White-throated Needletail		V			Absent	Low - no suitable habitat
<i>Neophema chrysogaster</i>	Orange-bellied Parrot		CE			Absent	Low - no suitable habitat
<b>Mammals</b>							
<i>Petrogale penicillata</i>	Brush-tailed Rock-wallaby	E1, P	V	28/09/2013		Absent	Low - no suitable habitat
<i>Micronomus norfolkensis</i>	Eastern Coastal Free-tailed Bat	V, P		13/12/2012	1	Absent	Low - no suitable habitat
<i>Falsistrellus tasmaniensis</i>	Eastern False Pipistrelle	V, P		24/10/2012	12	Absent	Low - no suitable habitat
<i>Cercartetus nanus</i>	Eastern Pygmy-possum	V, P		1/10/2016		Absent	Low - no suitable habitat
<i>Phoniscus papuensis</i>	Golden-tipped Bat	V, P		27/04/1983	1	Absent	Low - no suitable habitat
<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	V, P		13/12/2012	1	Absent	Low - no suitable habitat
<i>Petauroides volans</i>	Greater Glider	P	V	22/02/2010	1	Absent	Low - no suitable habitat
<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	V, P	V	1/01/1900		Absent	Low - no suitable habitat
<i>Phascolarctos cinereus</i>	Koala	V, P	V	21/12/2012	1	Absent	Low - no suitable habitat
<i>Potorous tridactylus</i>	Long-nosed Potoroo	V, P	V	1/10/1999	2	Absent	Low - no suitable habitat
<i>Isoodon obesulus obesulus</i>	Southern Brown Bandicoot (eastern)	E1, P	E	1/07/1992	1	Absent	Low - no suitable habitat
<i>Myotis macropus</i>	Southern Myotis	V, P		13/12/2012	1	Absent	Low - no suitable habitat
<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	V, P	E	22/11/2011	2	Absent	Low - no suitable habitat
<i>Petaurus norfolcensis</i>	Squirrel Glider	V, P		1/01/1900	1	Absent	Low - no suitable habitat
<i>Sminthopsis leucopus</i>	White-footed Dunnart	V, P		11/12/1998	2	Absent	Low - no suitable habitat
<i>Petaurus australis</i>	Yellow-bellied Glider	V, P		26/04/2010	4	Absent	Low - no suitable habitat
<i>Saccolaimus flaviventris</i>	Yellow-bellied Sheath-tail-bat	V, P		14/08/2012	1	Absent	Low - no suitable habitat

## THREATENED FLORA

Scientific Name	Common Name	NSW Status	EPBC Status	Date Recorded	Number of Individuals	Presence of Habitat	Likelihood of Occurring on site
<i>Astrotricha</i> sp. <i>Wallagaraugh</i>	Merimbula Star-hair	E1		24/08/2015		Absent	Low - no suitable habitat
<i>Acacia georgensis</i>	Bega Wattle	V	V	11/04/2019	106	Absent	Low - no suitable habitat
<i>Eucalyptus nicholii</i>	Narrow-leaved Black Peppermint	V	V	8/07/2010		Absent	Low - no suitable habitat
<i>Lysimachia vulgaris</i> var. <i>davurica</i>	Yellow Loosestrife	E1,3		21/02/2003		Absent	Low - no suitable habitat
<i>Correa baeuerlenii</i>	Chef's Cap Correa	V	V	28/06/2016	25	Absent	Low - no suitable habitat