

**Norris and Schoeffel  
Ecological Services**

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**Ecological Features and Constraints**

**Lang Lang Sand Resources  
5575 South Gippsland Hwy, Lang Lang**

29 August 2022

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## Summary

- The proposed Sand Quarry, Lang Lang Sand Resources, plans to use an existing dairy farm that is likely to have been cleared of original 'Native Vegetation' in the late 19<sup>th</sup> and early 20<sup>th</sup> century
- The proposed quarry does not contravene or invoke EPBC Act actions
- One Rare or Threatened species of Flora or Fauna was observed on the site—Musk Duck, regarded as 'near threatened' on the Victorian advisory list
- Definable Native Vegetation on site consists of one large tree on the eastern boundary that will be avoided in excavation plans
- Large trees along the north and south boundaries have 'Tree Protection Zones' within the Work Authority but all works, including bunds and drains, are situated to avoid them (Appendix 1).
- Large trees around the farm dwelling and dairy were originally planted for amenity value by the owner's family.

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# 1 Introduction

## 1.1 Project Background

Aurora Construction Materials Pty Ltd (ACM Pty Ltd) contracted Norris and Schoeffel to complete a Flora and Fauna review and Native Vegetation assessment of a proposed extraction area within a Work Authority named Lang Lang Sand Resources.

The assessment is to fulfil requirements:

- To explore the possibility that the proposed works might be a referable action under the Environment Protection and Biodiversity Conservation Act (EPBC).
- To explore and make allowance for any potential liability and resultant Offsets that would apply to the proposed works, consistent with *Guidelines for the removal, destruction or lopping of native vegetation* (DELWP 2017).

## 1.2 Site location

The study site is located about 6 kilometres SSE of Lang Lang, Victoria. The proposed works on the site comprise about 80 ha of 5575 South Gippsland Hwy, Lang Lang. The site is within the Cardinia Local Government area and is situated in the Gippsland Plains Bioregion.

Details:

**5575 South Gippsland Hwy, Lang Lang**

GWZ1 Green Wedge Zone – Schedule 1

**Crown Allotments:** 1 LP91815, 1 TP23467, 2 PS312674 and 1 PS312674.

Appendix 1 contains a plan of the site.

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## 1.3 Objectives

The purpose of this assessment is to:

- Interrogate and analyse a range of biological databases and relevant references to provide a list of flora and fauna or their habitat that is or are potentially present on the sites and vicinity including adjoining roadsides;
- Carry out an assessment of the native vegetation quality of the site (Habitat Hectare) if necessary and record and map the location of any significant species;
- Classify and map the native vegetation on the site in accordance with DELWP 2017 i.e. Scattered Tree or Patches of Native Vegetation;
- Prepare an overview of the potential Native Vegetation offsets required for the development of the entire site; and
- Prepare a report and map the findings of this assessment including any recommendations for additional targeted surveys and an assessment of the impact of the proposed development on biodiversity.

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## 2 Methods

### 2.1 Literature and Database Review

Databases and reports were interrogated and reviewed, these include:

- Flora and Fauna records within 5 km radius of the study area held in the Victorian Biodiversity Atlas — a state-wide database maintained by the Department of Environment, Land, Water and Planning (DELWP) (DELWP 2018):
- Federal Department of Environment Protected Matters Database (DoE) (DoE 2019), using a 5 km radius search area (Appendix 2):
- Ecological Vegetation Class (EVC) modelling of the study area (both extant and pre-1750) (DELWP 2018)

### 2.2 Field Survey

The study area was assessed on 30 July 2020 and 6 July 2022.

The field survey provides an assessment of the flora and fauna as observed at the time, including the distribution of extant Native Vegetation on the site.

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## 3 Results

### 3.1 Historic Land Use

The property was probably cleared of the original vegetation described as Lowland Forest and Swampy Riparian Woodland in the last half of the 19<sup>th</sup> century. Grazing by domestic stock probably continued from that time until the present, at different intensities, but probably no more intensely than its current use as a dedicated dairy farm.



*Illustration 1: Proposed extraction area*

Roadside vegetation along the South Gippsland Highway attest to the likely swamp character of the original vegetation.



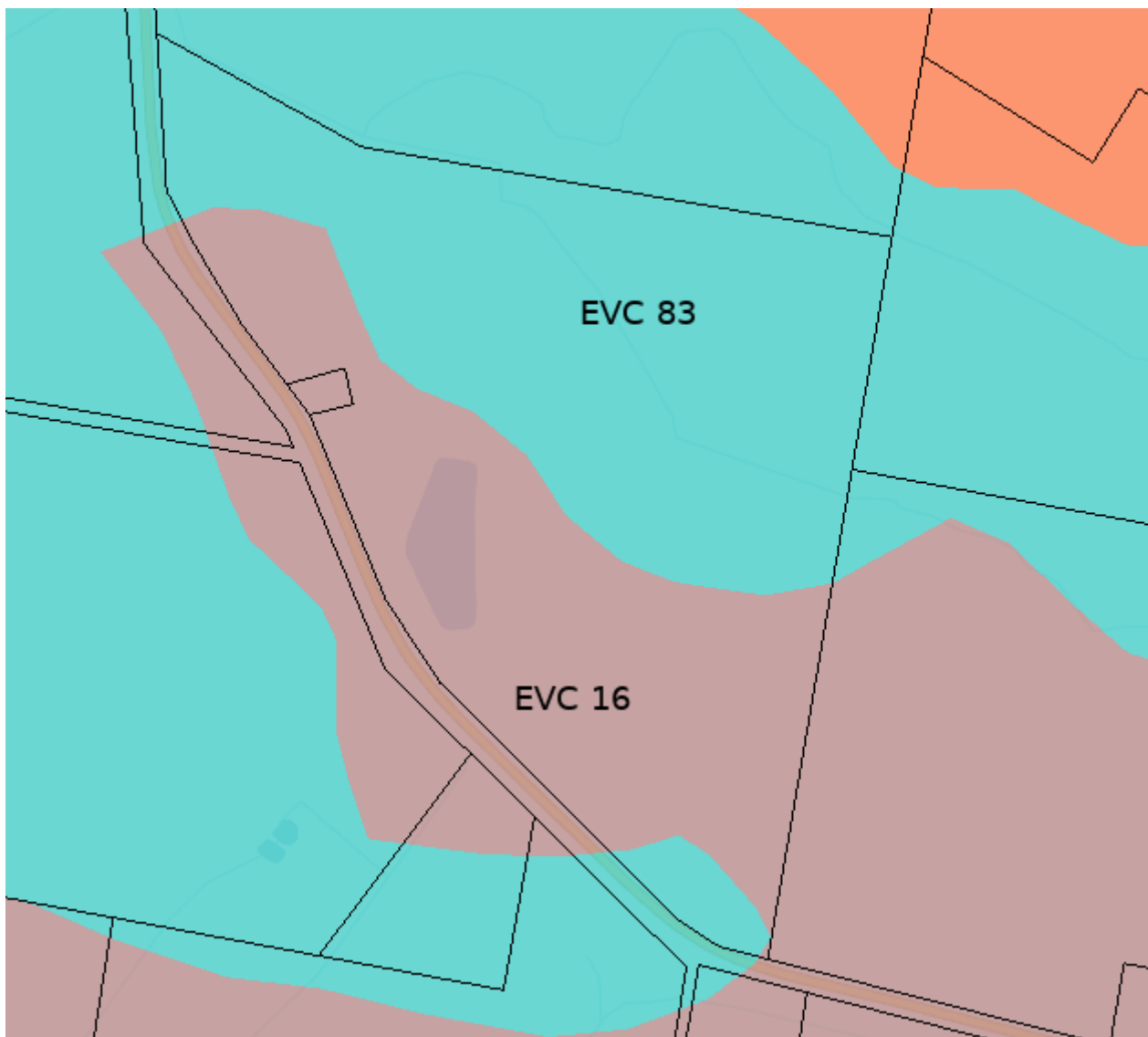
*Illustration 2: Roadside vegetation*



## 3.2 Flora

### 3.2.1 Database assessment

The modelled (DELWP 2018) 1750 pre-European Ecological Vegetation Class (EVC) of the proposed extraction site is a combination of EVC 16 Lowland Forest and EVC 83 Swampy Riparian Woodland. Relict vegetation along the South Gippsland Highway is consistent with that presumption.



*Illustration 3: Predicted original distribution of Native Vegetation onsite.*

### 3.2.2 Site Assessment

Because of the nature of land-use and change in fundamental soil characteristics, few species of native flora occur on the site and other than a single Swamp Gum *Eucalyptus ovata*, near the eastern boundary, none that are naturally occurring and >10 years of age. The Australian native species,

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including the local *Melaleuca ericifolia*, in an area along a fence-line in about the centre of the property were planted by the present owner's family. A single shrub of *Acacia verticillata* is present on a drain in the central north of the property. Neither of these occurrences are actionable under the terms of the Native Vegetation retention regulations. The proposed pit design will avoid the single Swamp Gum in the east by establishing a marked exclusion zone of 20m radius. Proposed works, including bunds, are situated outside the 'Tree Protection Zones' of trees outside the property boundary, but whose dependence and hence vulnerability extends within the property (Appendix 1). Large trees around the farm dwelling and dairy were originally planted for amenity value by the owner's family.

### 3.2.3 Flora Significance

Table 3-1 lists those Significant species of plants or their habitat recorded on the EPBC database or Victorian Biodiversity Atlas (DELWP 2017) within about 5km of the sites and identified by any, some or all of the EPBC Act, the FFG Act or the advisory list of threatened species in Victoria.

Table 3-1 Significant plant species recorded within 5km of the subject sites

Scientific Name	Common Name	Conservation Status	Count of Sightings	Last Record
<i>Acacia leprosa</i> var. <i>uninervia</i>	Large-leaf Cinnamon-wattle	r	1	12/05/05
<i>Allocasuarina media</i>	Prom Sheoak	k	1	22/03/01
<i>Amphibromus fluitans</i>	River Swamp Wallaby-grass	VU X	0	none
<i>Austrostipa rudis</i> subsp. <i>australis</i>	Veined Spear-grass	r	1	01/09/07
<i>Banksia spinulosa</i> var. <i>cunninghamii</i>	Hairpin Banksia	X	26	09/11/17
<i>Billardiera scandens</i> s.s.	Velvet Apple-berry	r	1	01/12/76
<i>Caladenia aurantiaca</i>	Orange-tip Finger-orchid	r	2	06/10/95
<i>Caladenia orientalis</i>	Eastern Spider Orchid	EN en L	0	none
<i>Caladenia tessellata</i>	Thick-lipped Spider-orchid	VU vu	0	none
<i>Campylopus acuminatus</i> var. <i>kirkii</i>	Swamp Swan-neck Moss	k	1	18/01/05
<i>Chiloglottis jeanesii</i>	Mountain Bird-orchid	r	1	09/11/17
<i>Chorizandra australis</i>	Southern Bristle-sedge	k	1	03/07/03
<i>Corybas aconitiflorus</i>	Spurred Helmet-orchid	r	5	20/09/07
<i>Desmodium varians</i>	Slender Tick-trefoil	k	1	08/05/01
<i>Dianella amoena</i>	Matted Flax-lily	EN en L	0	none
<i>Entolasia stricta</i>	Upright Panic	k	5	17/04/07
<i>Eucalyptus strzeleckii</i>	Strzelecki Gum	VU vu L	1	22/03/01
<i>Glycine latrobeana</i>	Clover Glycine	VU vu L	0	none
<i>Hypocrepopsis amplexans</i>	Clasping Hypocrepopsis	vu L	9	04/07/04

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Scientific Name	Common Name	Conservation Status	Count of Sightings	Last Record
<i>Kunzea leptospermoides</i>	Yarra Burgan	k	2	09/11/17
<i>Monotoca glauca</i>	Currant-wood	r	2	20/05/05
<i>Prasophyllum frenchii</i>	Maroon Leek-orchid	EN en L	0	none
<i>Prasophyllum spicatum</i>	Dense Leek-orchid	VU en	0	none
<i>Pterostylis chlorogramma</i>	Green-striped Greenhood	VU vu L	4	08/07/09
<i>Pterostylis cucullata</i>	Leafy Greenhood	VU L	0	none
<i>Pterostylis grandiflora</i>	Cobra Greenhood	r	1	29/07/94
<i>Senecio diaschides</i>	Shingle Fireweed	r	1	09/11/17
<i>Senecio psilocarpus</i>	Swamp Fireweed	VU	0	none
<i>Thelymitra epipactoides</i>	Metallic Sun-orchid	EN en L	0	none
<i>Thelymitra malvina</i>	Mauve-tuft Sun-orchid	vu	1	10/11/95
<i>Xerochrysum palustre</i>	Swamp Everlasting	VU vu L	0	none

Abbreviations: EPBC Act CR—Critically endangered, EN—Endangered, VU—Vulnerable; FFG Act L—Listed, N—Nominated for Listing, X—Rejected for listing; Victorian Advisory List cr—critically endangered, en—endangered, vu—vulnerable, nt—near threatened, dd—data deficient.

None of these species was observed on site or are likely to occur.

### 3.2.4 EPBC Listed Communities

No EPBC listed threatened Ecological communities are recorded as potentially occurring in the area (Appendix 2).

## 3.3 Fauna

### 3.3.1 Database Assessment

The EPBC search (Appendix 2) and the Victorian Biodiversity Atlas (DELWP 2017) identified those species of animals that have been or might be recorded within the vicinity (~5km) of the site. Of these, the 'Significant fauna' are listed below i.e. those species identified by any, some or all of the EPBC Act, the FFG Act or the advisory list of threatened species in Victoria. Not included in the list below are species with a clear orientation to a marine environment.

Table 3-2 - Significant fauna species recorded within 5km of the subject site

Scientific Name	Common Name	Conservation Status	Count of Sightings	Last Record
<i>Antechinus minimus maritimus</i>	Swamp Antechinus	VU nt L	1	23/10/98
<i>Anthochaera phrygia</i>	Regent Honeyeater	CR	none	
<i>Ardea alba</i>	Great Egret	vu L	4	24/06/06
<i>Ardea alba modesta</i>	Eastern Great Egret	vu L	2	18/06/18
<i>Biziura lobata</i>	Musk Duck	vu	10	30/07/2020
<i>Calidris ferruginea</i>	Curlew Sandpiper	CR en L	9	09/02/08
<i>Dasyurus maculatus</i>	Spot-tailed Quoll	EN	0	none

Scientific Name	Common Name	Conservation Status	Count of Sightings	Last Record
<i>maculatus</i>				
<i>Falco hypoleucos</i>	Grey Falcon	VU	0	none
<i>Galaxiella pusilla</i>	Eastern Dwarf Galaxias	VU	0	none
<i>Gelochelidon macrotarsa</i>	Australian Gull-billed Tern	en L	1	27/11/04
<i>Grantiella picta</i>	Painted Honeyeater	VU	0	none
<i>Hirundapus caudacutus</i>	White-throated Needletail	VU vu L	2	01/01/81
<i>Hydroprogne caspia</i>	Caspian Tern	nt L	2	27/11/04
<i>Isodon obesulus obesulus</i>	Southern Brown Bandicoot	EN nt L	67	02/05/19
<i>Lathamus discolor</i>	Swift Parrot	CR en L	2	26/09/08
<i>Limosa lapponica</i>	Bar-tailed Godwit	VU	9	16/06/07
<i>Litoria raniformis</i>	Growling Grass Frog	VU en L	1	01/01/81
<i>Mastacomys fuscus mordicus</i>	Broad-toothed Rat	VU	0	none
<i>Megascolides australis</i>	Giant Gippsland Earthworm	VU	0	none
<i>Neophema chrysogaster</i>	Orange-bellied Parrot	CR cr L	1	01/02/07
<i>Ninox strenua</i>	Powerful Owl	vu L	4	03/05/05
<i>Numenius madagascariensis</i>	Eastern Curlew	CR vu L	10	09/02/18
<i>Oxyura australis</i>	Blue-billed Duck	en L	1	07/07/01
<i>Petauroides volans</i>	Greater Glider	VU	0	none
<i>Potorous tridactylus tridactylus</i>	Long-nosed Potoroo	VU	0	none
<i>Pluvialis fulva</i>	Pacific Golden Plover	vu	1	19/11/05
<i>Prototroctes maraena</i>	Australian Grayling	VU	0	none
<i>Pseudophryne semimarmorata</i>	Southern Toadlet	vu	8	03/05/05
<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	VU	0	none
<i>Sminthopsis leucopus</i>	White-footed Dunnart	nt L	3	13/04/12
<i>Sternula albifrons</i>	Little Tern	vu L	1	27/11/04
<i>Synemon plana</i>	Golden Sun Moth	CR	0	none
<i>Tringa nebularia</i>	Common Greenshank	vu	5	09/02/08
<i>Varanus varius</i>	Lace Monitor	en	11	25/02/19

Abbreviations for 'Significant fauna': EPBC Act CR—Critically endangered, VU—Vulnerable; FFG Act L—Listed, N—Nominated for Listing, X—Rejected for listing; Victorian Advisory List cr—critically endangered, en—endangered, vu—vulnerable, nt—near threatened, dd—data deficient.

The subject site does not contain habitat suitable for fish except for the artificial dam on site.

The EPBC list of potential Listed fauna includes species that might visit or overfly the site but none for which the site offers an environment for enduring habitat.

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### 3.3.2 Field Assessment

No EPBC or FFG listed fauna species were observed during field investigations. A pair of Musk Duck *Biziura lobata*, considered vulnerable on the Victorian Advisory List, was present on the artificial dam.

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## 4 Legislative Requirements

### 4.1 Environment Protection and Biodiversity Conservation (EPBC) Act

Appendix 2 contains the EPBC Act search results in entirety. No communities of plant listed under EPBC Act occur on the site or nearby. Wetlands of International Importance (Westernport) occur near to the site but will not be affected by the development proposal.

No EPBC listed nationally significant Flora and Fauna species (or their habitat) as highlighted in the EPBC Report are likely to be present on the subject site. A referral of the development to Department of the Environment for determination of whether the development is a controlled action under the EPBC Act is not required. (Appendix 2—EPBC Report).

### 4.2 Flora & Fauna Guarantee Act 1988 (FFG)

An FFG permit from DELWP will not be required for the removal of native vegetation on the freehold land.

### 4.3 Planning and Environment Act 1987

A planning permit from the Alpine Shire Council is required to remove, destroy or lop any native vegetation as part of any proposed development works in accordance with the Cardinia Shire Planning Scheme. For development variations of usage within quarries, approvals under the Planning and Environment Act to do with Native Vegetation removal are handled by the Department of Economic Development, Jobs, Transport and Resources under the *Mineral Resources (Sustainable Development) Act 1990*.

### 4.4 NV Loss assessment following Guidelines

#### 4.4.1 Pathway

Following *The Guidelines* (DELWP 2017a), the assessment does not require the removal of any defined 'Native Vegetation'.

#### 4.4.2 Native vegetation present

- No 'Patches' of Native Vegetation occur within the proposed Work Authority.
- One 'Large Tree' remains of what was probably the original forest/woodland type, a specimen of Swamp Gum *Eucalyptus ovata*. The pit design avoids any affect on this remaining tree.
- The proposed pit is beyond the distance at which the remaining Native Vegetation along the roadsides will be affected.

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Ecological Features and Constraints of 5575 South Gippsland Hwy, Lang Lang

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- No report from DELWP systems and tools is required.
- An aerial image of the proposed Work Authority that shows the position of the remaining Large Tree is in Appendix 1
- Large trees along the north and south boundaries have ‘Tree Protection Zones’ within the Work Authority but all works, including bunds and drains, are situated to avoid them (Appendix 1).

## 4.4.3 Wetlands

Following *The Guidelines*, a wetland mapped as such in the *Current wetlands map* is treated as a patch of native vegetation. The artificial turkey-nest dam constructed on-site to provide for the requirements of farming is shown as a wetland on the *Current wetlands map*. This derivative qualification would appear to be anomalous. No ‘Native Vegetation’ as such occurs on or in the dam (see Illustration 4). The classification of ‘wetland’ applying to Mapped Wetland 71976 under the terms of Native Vegetation retention was removed by application in a letter from DELWP dated 21-04-2021 (see documentation by BCA in support of the proposal).

*Illustration 4: Artificial 'Turkey-nest' dam.*



#### 4.4.4 Avoidance & minimisation statement

The primary objective of this project is the extraction of quality sand from the proposed area of the Work Authority. No Native Vegetation will be affected.



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*Illustration 5: One remaining large native tree on site.*

One large, indigenous tree occurs within the proposed Work Authority, near the eastern boundary. The pit design avoids the tree by 20 metres. Large trees along the north and south boundaries have ‘Tree Protection Zones’ within the Work Authority but all works, including bunds and drains, are situated to avoid them (Appendix 1).

#### 4.4.5 Property vegetation Plan

No Property Vegetation Plan exists for the site.

#### 4.4.6 Defendable space

The removal of Native Vegetation is not to create a defendable space.

#### 4.4.7 Clause 52.16

The application is not under Clause 52.16 of the Planning Scheme.



## 5 Conclusion

Except for the occurrence of a pair of Musk Duck on the artificial dam, described as 'near threatened' on the Victorian advisory list, no flora and fauna of conservation significance were recorded on the site and none is expected to utilise the site except as occasional visitors or vagrants. Few native flora species exist on site and the environment for fauna on the site is similar to that provided by farmland throughout this part of Victoria.

To proceed with the proposed development ACM Pty Ltd is not required to provide any 'Offsets' for the removal of Native Vegetation.

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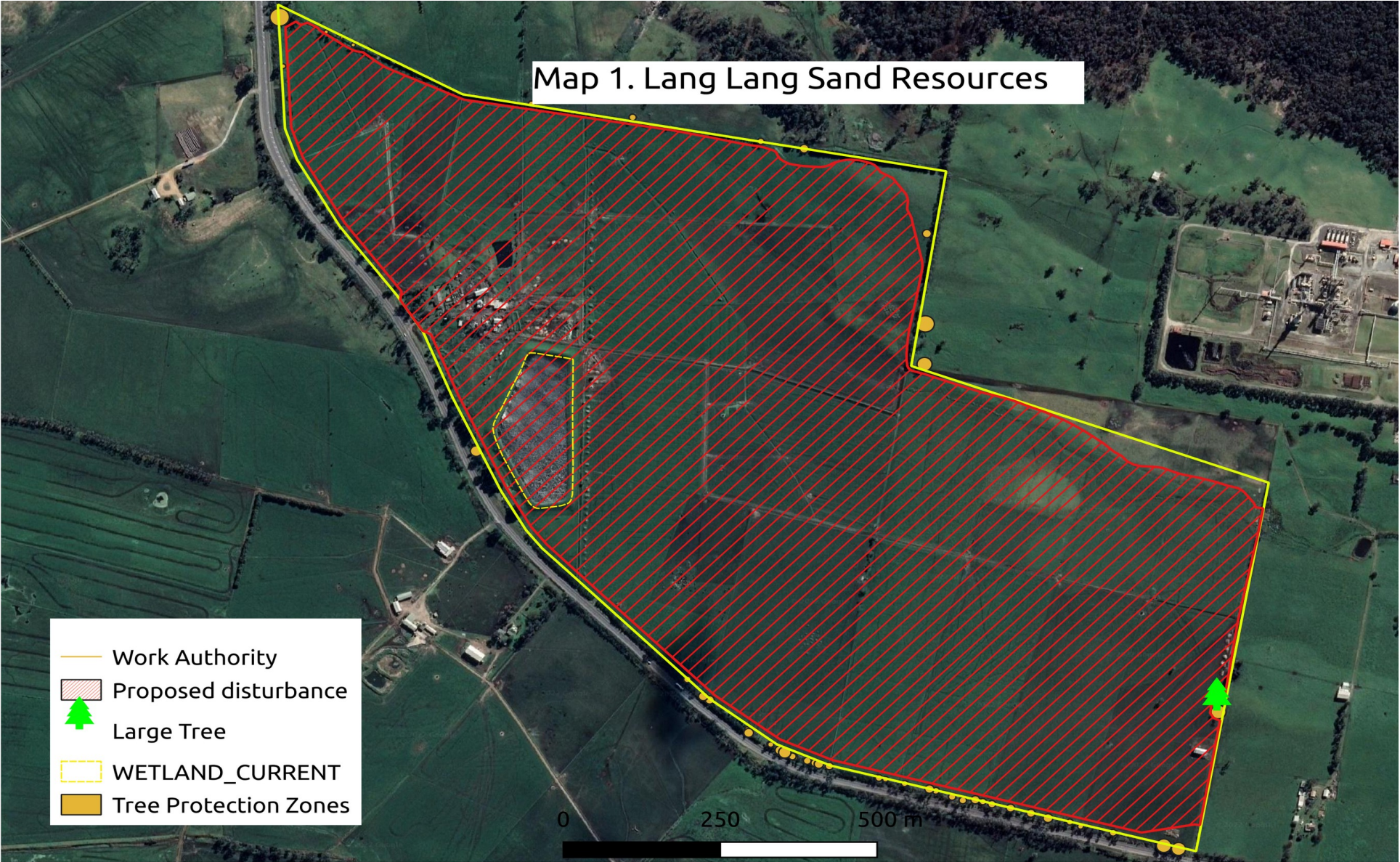
## 6 References

- DSE 2004 Victorian Riverina Bioregion Benchmarks. Published by the Victorian Government Department of Sustainability and Environment May 2004.
- DELWP 2017 Nature Kit <http://maps.biodiversity.vic.gov.au/viewer/?viewer=NatureKit>, Department of Environment, Land, Water & Environment – website
- DELWP 2017a Guidelines for the removal, destruction or lopping of native vegetation. Department of Environment, Land, Water & Planning, Melbourne
- DEPI 2014b Advisory list of rare or threatened plants in Victoria 2014. [http://www.depi.vic.gov.au/\\_\\_data/assets/pdf\\_file/0005/277565/Advisory-List-of-Rare-or-Threatened-Plants-in-Victoria-2014.pdf](http://www.depi.vic.gov.au/__data/assets/pdf_file/0005/277565/Advisory-List-of-Rare-or-Threatened-Plants-in-Victoria-2014.pdf) . Department of Environment & Primary Industries, Melbourne.
- DOE 2020 – Protected Matters Search Tool. <http://www.environment.gov.au/epbc/pmst/index.html>. Website - Department of Environment, Canberra.

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## Appendix 1. Site Map



# Appendix 2. EPBC Report



Australian Government  
Department of the Environment and Energy

## 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.

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[Summary](#)

[Details](#)

[Matters of NES](#)

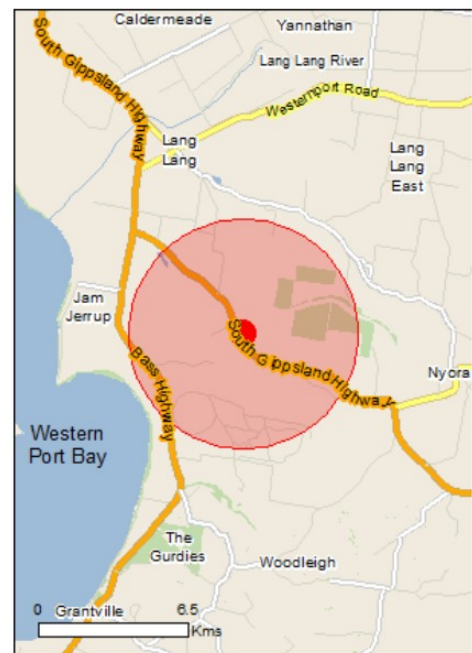
[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

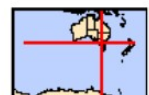
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[Coordinates](#)

Buffer: 5.0Km



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## 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>	1
<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>	66
<a href="#">Listed Migratory Species:</a>	59

### 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>	None
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	69
<a href="#">Whales and Other Cetaceans:</a>	7
<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>	2
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	35
<a href="#">Nationally Important Wetlands:</a>	1
<a href="#">Key Ecological Features (Marine)</a>	None

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## Details

### Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)	[ Resource Information ]
Name	Proximity
<a href="#">Western port</a>	Within Ramsar site

Listed Threatened Ecological Communities	[ Resource Information ]
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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="#">Natural Damp Grassland of the Victorian Coastal Plains</a>	Critically Endangered	Community may occur within area

Listed Threatened Species	[ Resource Information ]
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Name	Status	Type of Presence
------	--------	------------------

<b>Birds</b>		
<a href="#">Anthochaera phrygia</a>		
Regent Honeyeater [82338]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Botaurus poiciloptilus</a>		
Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris canutus</a>		
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a>		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris tenuirostris</a>		
Great Knot [862]	Critically Endangered	Roosting known to occur within area
<a href="#">Charadrius leschenaultii</a>		
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Roosting known to occur within area
<a href="#">Charadrius mongolus</a>		
Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
<a href="#">Diomedea antipodensis</a>		
Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea antipodensis gibsoni</a>		
Gibson's Albatross [82270]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea epomophora</a>		
Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea exulans</a>		
Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely

# ADVERTISED PLAN

Name	Status	Type of Presence to occur within area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Falco hypoleucos</a> Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Fregatta grallaria grallaria</a> White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Grantiella picta</a> Painted Honeyeater [470]	Vulnerable	Species or species habitat likely 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 known 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 known to 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	Migration route likely to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Pachyptila turtur subantarctica</a> Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Rostratula australis</a> 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	Foraging, feeding or related behaviour 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
<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</a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area

# ADVERTISED PLAN

Name	Status	Type of Presence
<a href="#">Thalassarche chrysostoma</a> Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Foraging, feeding or related behaviour likely to 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	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thinornis cucullatus cucullatus</a> Hooded Plover (eastern), Eastern Hooded Plover [90381]	Vulnerable	Species or species habitat likely to occur within area
<b>Fish</b>		
<a href="#">Galaxiella pusilla</a> Eastern Dwarf Galaxias, Dwarf Galaxias [56790]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Prototroctes maraena</a> Australian Grayling [26179]	Vulnerable	Species or species habitat likely to occur within area
<b>Frogs</b>		
<a href="#">Litoria raniformis</a> Growling Grass Frog, Southern Bell Frog, Green and Golden Frog, Warty Swamp Frog, Golden Bell Frog [1828]	Vulnerable	Species or species habitat likely to occur within area
<b>Insects</b>		
<a href="#">Synemon plana</a> Golden Sun Moth [25234]	Critically Endangered	Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#">Antechinus minimus maritimus</a> Swamp Antechinus (mainland) [83086]	Vulnerable	Species or species habitat likely to occur within area
<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 may occur within area
<a href="#">Eubalaena australis</a> Southern Right Whale [40]	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 known to occur within area
<a href="#">Mastacomys fuscus mordicus</a> Broad-toothed Rat (mainland), Tooarrana [87617]	Vulnerable	Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
<a href="#">Petauroides volans</a> Greater Glider [254]	Vulnerable	Species or species habitat



# ADVERTISED PLAN

Name	Status	Type of Presence
<a href="#">Potorous tridactylus tridactylus</a> Long-nosed Potoroo (SE Mainland) [66645]	Vulnerable	Species or species habitat may occur within area
<a href="#">Pteropus poliocephalus</a> Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<b>Other</b>		
<a href="#">Megascolides australis</a> Giant Gippsland Earthworm [64420]	Vulnerable	Species or species habitat likely to occur within area
<b>Plants</b>		
<a href="#">Amphibromus fluitans</a> River Swamp Wallaby-grass, Floating Swamp Wallaby-grass [19215]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Caladenia orientalis</a> Eastern Spider Orchid [83410]	Endangered	Species or species habitat may 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="#">Dianella amoena</a> Matted Flax-lily [64886]	Endangered	Species or species habitat may occur within area
<a href="#">Eucalyptus strzeleckii</a> Strzelecki Gum [55400]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Glycine latrobeana</a> Clover Glycine, Purple Clover [13910]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Prasophyllum frenchii</a> Maroon Leek-orchid, Slaty Leek-orchid, Stout Leek-orchid, French's Leek-orchid, Swamp Leek-orchid [9704]	Endangered	Species or species habitat likely to occur within area
<a href="#">Prasophyllum spicatum</a> Dense Leek-orchid [55146]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Pterostylis chlorogramma</a> Green-striped Greenhood [56510]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pterostylis cucullata</a> Leafy Greenhood [15459]	Vulnerable	Species or species habitat may occur within area
<a href="#">Senecio psilocarpus</a> Swamp Fireweed, Smooth-fruited Groundsel [64976]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Thelymitra epipactoides</a> Metallic Sun-orchid [11896]	Endangered	Species or species habitat may occur within area
<a href="#">Xerochrysum palustre</a> Swamp Everlasting, Swamp Paper Daisy [76215]	Vulnerable	Species or species habitat likely to occur within area
<b>Reptiles</b>		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding likely to occur within area

# ADVERTISED PLAN

Name	Status	Type of Presence
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
<b>Sharks</b>		
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
<b>Listed Migratory Species</b>		<a href="#">[ Resource Information ]</a>
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardenna carneipes</a> Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Ardenna grisea</a> Sooty Shearwater [82651]		Species or species habitat may occur within area
<a href="#">Diomedea antipodensis</a> Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour 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="#">Sternula albifrons</a> Little Tern [82849]		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> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thalassarche chrysostoma</a> Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area

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Name	Threatened	Type of Presence
<a href="#">Thalassarche salvini</a> Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<b>Migratory Marine Species</b>		
<a href="#">Balaena glacialis australis</a> Southern Right Whale [75529]	Endangered*	Species or species habitat known to occur within area
<a href="#">Caperea marginata</a> Pygmy Right Whale [39]		Species or species habitat may occur within area
<a href="#">Carcharodon carcharias</a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
<a href="#">Lagenorhynchus obscurus</a> Dusky Dolphin [43]		Species or species habitat may occur within area
<a href="#">Lamna nasus</a> Porbeagle, Mackerel Shark [83288]		Species or species habitat likely to occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
<b>Migratory Terrestrial Species</b>		
<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 likely to occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may 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
<b>Migratory Wetlands Species</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area
<a href="#">Arenaria interpres</a> Ruddy Turnstone [872]		Roosting known to occur within area

Name	Threatened	Type of Presence
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Roosting known to occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
<a href="#">Calidris ruficollis</a> Red-necked Stint [860]		Roosting known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area
<a href="#">Charadrius bicinctus</a> Double-banded Plover [895]		Roosting known to occur within area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Roosting known to occur within area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]		Roosting may occur within area
<a href="#">Gallinago megala</a> Swinhoe's Snipe [864]		Roosting likely to occur within area
<a href="#">Gallinago stenura</a> Pin-tailed Snipe [841]		Roosting likely to occur within area
<a href="#">Limicola falcinellus</a> Broad-billed Sandpiper [842]		Roosting known to 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 known to occur within area
<a href="#">Numenius minutus</a> Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area
<a href="#">Numenius phaeopus</a> Whimbrel [849]		Roosting known to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat may occur within area
<a href="#">Pluvialis fulva</a> Pacific Golden Plover [25545]		Roosting known to occur within area
<a href="#">Pluvialis squatarola</a> Grey Plover [865]		Roosting known to occur within area
<a href="#">Tringa brevipes</a> Grey-tailed Tattler [851]		Roosting known to occur within area
<a href="#">Tringa glareola</a> Wood Sandpiper [829]		Roosting known to occur within area

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Name	Threatened	Type of Presence
<a href="#">Tringa incana</a> Wandering Tattler [831]		Roosting known to occur within area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
<a href="#">Tringa stagnatilis</a> Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area
<a href="#">Xenus cinereus</a> Terek Sandpiper [59300]		Roosting known to occur within area

### 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 Species list.

Name	Threatened	Type of Presence
<b>Birds</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known 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="#">Arenaria interpres</a> Ruddy Turnstone [872]		Roosting known to occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Roosting known to occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
<a href="#">Calidris ruficollis</a> Red-necked Stint [860]		Roosting known to occur within area
<a href="#">Calidris tenuirostris</a> Great Knot [862]	Critically Endangered	Roosting known to occur within area

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Name	Threatened	Type of Presence
<a href="#">Charadrius bicinctus</a> Double-banded Plover [895]		Roosting known to occur within area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Roosting known to occur within area
<a href="#">Charadrius mongolus</a> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area
<a href="#">Charadrius ruficapillus</a> Red-capped Plover [881]		Roosting known to occur within area
<a href="#">Diomedea antipodensis</a> Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea gibsoni</a> Gibson's Albatross [64466]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Gallinago hardwickii</a> Latham's Snipe, Japanese Snipe [863]		Roosting may occur within area
<a href="#">Gallinago megala</a> Swinhoe's Snipe [864]		Roosting likely to occur within area
<a href="#">Gallinago stenura</a> Pin-tailed Snipe [841]		Roosting likely to occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
<a href="#">Heteroscelus brevipes</a> Grey-tailed Tattler [59311]		Roosting known to occur within area
<a href="#">Heteroscelus incanus</a> Wandering Tattler [59547]		Roosting known to occur within area
<a href="#">Himantopus himantopus</a> Pied Stilt, Black-winged Stilt [870]		Roosting 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 known to occur within area
<a href="#">Limicola falcinellus</a> Broad-billed Sandpiper [842]		Roosting known 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

Name	Threatened	Type of Presence
<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 likely to occur within area
<a href="#">Motacilla flava</a> Yellow Wagtail [644]		Species or species habitat may 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	Migration route likely to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Numenius minutus</a> Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area
<a href="#">Numenius phaeopus</a> Whimbrel [849]		Roosting known to occur within area
<a href="#">Pachyptila turtur</a> Fairy Prion [1066]		Species or species habitat likely to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Species or species habitat may occur within area
<a href="#">Pluvialis fulva</a> Pacific Golden Plover [25545]		Roosting known to occur within area
<a href="#">Pluvialis squatarola</a> Grey Plover [865]		Roosting known to occur within area
<a href="#">Puffinus carneipes</a> Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Foraging, feeding or related behaviour likely to occur within area
<a href="#">Puffinus griseus</a> Sooty Shearwater [1024]		Species or species habitat may occur within area
<a href="#">Recurvirostra novaehollandiae</a> Red-necked Avocet [871]		Roosting known 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="#">Sterna albifrons</a> Little Tern [813]		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

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Name	Threatened	Type of Presence area
<a href="#">Thalassarche cauta</a> Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thalassarche chrysostoma</a> Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Foraging, feeding or related behaviour likely to 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	Foraging, feeding or related behaviour 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	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Thinornis rubricollis rubricollis</a> Hooded Plover (eastern) [66726]	Vulnerable*	Species or species habitat likely to occur within area
<a href="#">Tringa glareola</a> Wood Sandpiper [829]		Roosting known to occur within area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
<a href="#">Tringa stagnatilis</a> Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area
<a href="#">Xenus cinereus</a> Terek Sandpiper [59300]		Roosting known to occur within area
<b>Mammals</b>		
<a href="#">Arctocephalus forsteri</a> Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within area
<a href="#">Arctocephalus pusillus</a> Australian Fur-seal, Australo-African Fur-seal [21]		Species or species habitat may occur within area
<b>Reptiles</b>		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Breeding likely to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
<b>Whales and other Cetaceans</b>		<b>[ Resource Information ]</b>
<b>Name</b>	<b>Status</b>	<b>Type of Presence</b>
<b>Mammals</b>		
<a href="#">Caperea marginata</a> Pygmy Right Whale [39]		Species or species habitat may occur within



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Name	Status	Type of Presence area
<a href="#">Delphinus delphis</a> Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
<a href="#">Eubalaena australis</a> Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area
<a href="#">Lagenorhynchus obscurus</a> Dusky Dolphin [43]		Species or species habitat may occur within area
<a href="#">Megaptera novaeangliae</a> Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
<a href="#">Tursiops aduncus</a> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area

## Extra Information

State and Territory Reserves	[ Resource Information ]
Name	State
Adams Creek N.C.R.	VIC
Unnamed C1744	VIC

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 Resources Audit, 2001.	

Name	Status	Type of Presence
<b>Birds</b>		
<i>Acridotheres tristis</i> Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
<i>Alauda arvensis</i> Skylark [656]		Species or species habitat likely to occur within area
<i>Anas platyrhynchos</i> Mallard [974]		Species or species habitat likely to occur within area
<i>Carduelis carduelis</i> European Goldfinch [403]		Species or species habitat likely to occur within area
<i>Carduelis chloris</i> European Greenfinch [404]		Species or species habitat likely to occur within area
<i>Columba livia</i> Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
<i>Passer domesticus</i> House Sparrow [405]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Passer montanus Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
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
Turdus philomelos Song Thrush [597]		Species or species habitat likely to occur within area
<b>Mammals</b>		
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
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 norvegicus Brown Rat, Norway Rat [83]		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
<b>Plants</b>		
Alternanthera philoxeroides Alligator Weed [11620]		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
Carrichtera annua Ward's Weed [9511]		Species or species habitat may occur within

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# 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

-38.32232 145.58876

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