

Technical Memorandum

27 April 2022

To	Bilal Khan (GeelongPort)	Tel	(03) 5247 0200
Copy to	Rhys Armstrong, Lana Griffin (GHD)	Email	kathryn.wheatley@ghd.com
From	Kathryn Wheatley	Ref. No.	12559567
Subject	EES referral for the Geelong Hydrogen Hub - Marine ecology assessment		

1. Introduction

GHD Pty Ltd (GHD) is engaged by GeelongPort Pty Ltd (GeelongPort) to support the preparation of environmental referral documents in relation to the proposed development of the Geelong Hydrogen Hub at the Port of Geelong. GeelongPort is seeking to undertake the following referrals to the relevant agencies:

- Environmental Effects Statement (EES) referral to the Victorian Minister for Planning and the Department of Environment, Land, Water and Planning (DELWP) under the *Environment Effects Act 1978*
- *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) self-assessment, and potentially a referral under the same Act to the Commonwealth Department of Agriculture Water and the Environment (DAWE)

1.1 Purpose of this memo

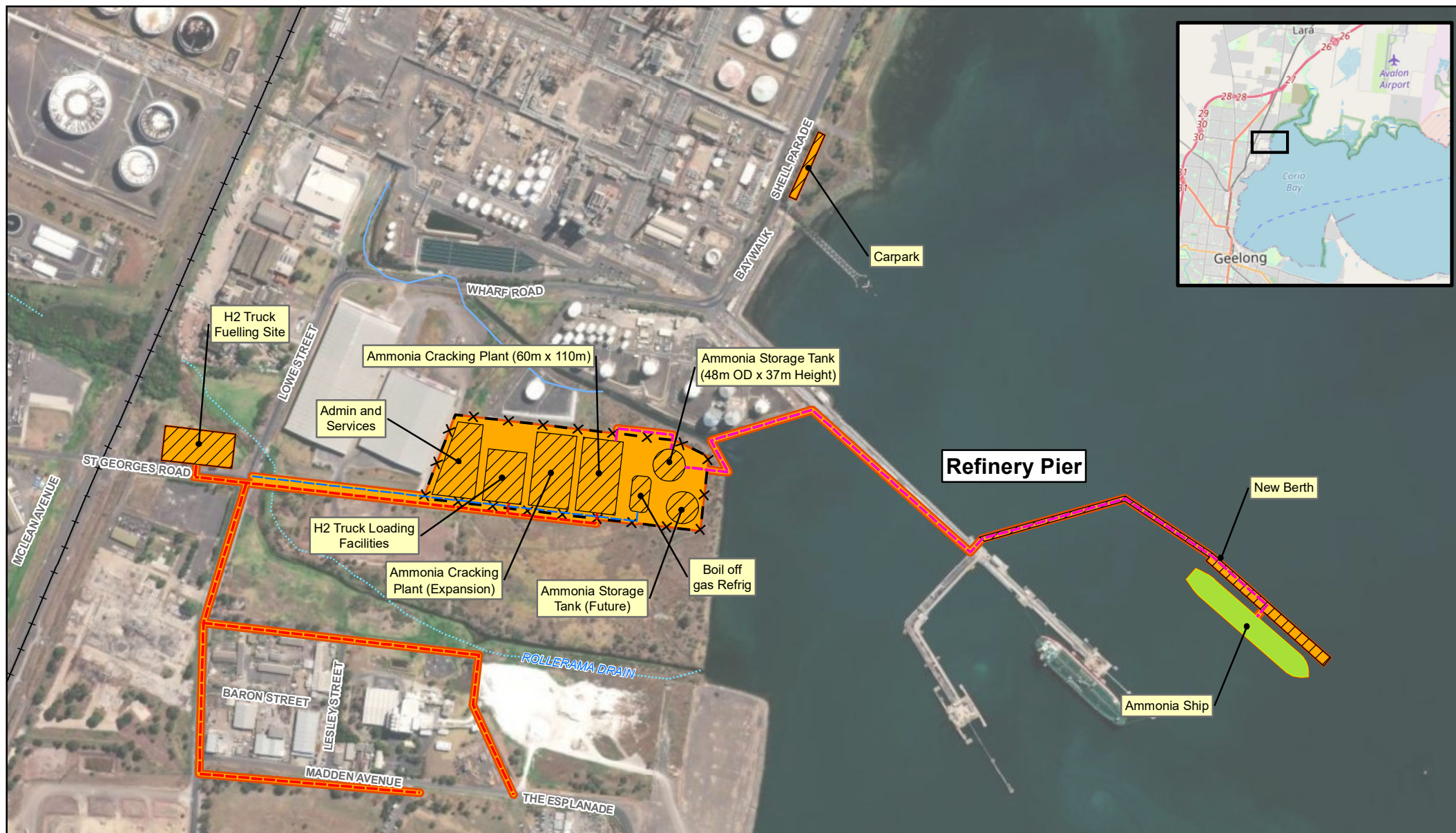
This memorandum has been prepared to support and inform the environmental referral documents, through assessment of the potential impacts associated with the proposed new ammonia import berth upon the marine ecology.

A description of the existing marine ecological environment, the associated values and sensitivities and their relevance to the proposed project site has been undertaken. Information has been sourced from peer-reviewed journals, and government and industry reports and websites.

1.2 Project overview

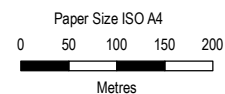
GeelongPort propose to develop a facility at Port of Geelong to import liquid ammonia, produce hydrogen and nitrogen by ammonia decomposition (or cracking over a catalyst), and distribute hydrogen to potential offtake users within the Port of Geelong as well as in wider Victoria. Use of hydrogen for these industrial processes will present a strong offset for gas production and consumption needs. The site layout highlights the key process buildings, pipeline routes and structures, and allows for future expansion or alternative applications for the ammonia/hydrogen (Figure 1). The proposed site for the facility comprises approximately 7.5 hectares of land that is wholly owned by GeelongPort. The key project components comprise:

- New ammonia import berth as an extension of Refinery Pier in Corio Bay
- Transfer pipeline to an onshore storage facility
- Onshore storage facility for liquid ammonia (60 m diameter storage tank(s))
- Catalytic cracking plant(s) to decompose ammonia into hydrogen and nitrogen
- Onshore distribution pipelines to potential industrial users either within the Port of Geelong or in adjacent industrial zones
- Vehicle refuelling facility (hydrogen)
- Carpark



LEGEND

- Hydrogen Off Take Route Options
- Ammonia Import Pipeline
- Road and Power Utilities
- Building/area
- Ammonia Ship
- Fence
- Concept layout footprint



Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



GeelongPort
GeelongPort Hydrogen Facility EES Referral

Conceptual site layout

Project No. **31-12559567**
Revision No. **0**
Date **26 Apr 2022**

FIGURE 2

2. Methods

2.1 Considerations

For this study, and to assess the values of Victoria's marine environment in relation to the proposed project site, the identification and mapping of the following has been considered:

- Marine bioregions and biophysical boundaries
- Matters of National Environmental Significance as defined under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*
- Victorian Marine National Parks and Sanctuaries
- Key Ecological Features
- Biologically Important Areas
- Victorian State Fisheries
- Other marine assets, significant areas, and benthic habitats.

2.2 Terminology

Within this report, the conservation status of a species is defined in accordance with the provisions of relevant state legislation and its regulations and amendments (i.e. *Flora and Fauna Guarantee Act 1988* (FFG Act)), and/or the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

The *proposed project site* represents the area of the new marine infrastructure (i.e. berth) plus a 2 km buffer where indicated, but does not include other infrastructure that is not marine related (e.g. pipelines, storage tanks etc.).

2.3 Likelihood of occurrence

A 'likelihood of occurrence' category was assigned to each listed species that was identified as potentially occurring within the proposed project site, based on the outcomes of the literature review. The category assigned to each species was determined based on whether the species is known to occur in the area (or could possibly migrate through the area), the depth range of the species and the habitat preferences of a species. The four categories for 'likelihood of occurrence' which have been used are Rare, Unlikely, Possible and Likely (Table 1).

Table 1 *Likelihood of occurrence within the proposed project site*

Likelihood	Description
Likely	It is more probable than not that the species or community could occur in any year and within the proposed project site (>50 per cent).
Possible	It is equally probable that the species or community could occur in any year and within the proposed project site (50 per cent).
Unlikely	It is less probable than not that the species or community could occur in any year and within the proposed project site (<50 per cent).
Rare	It is improbable that the species or community could occur in any year and within the proposed project site (<5 per cent). The species or community is only theoretically possible or would require exceptional circumstances to occur.

3. Description of existing environment

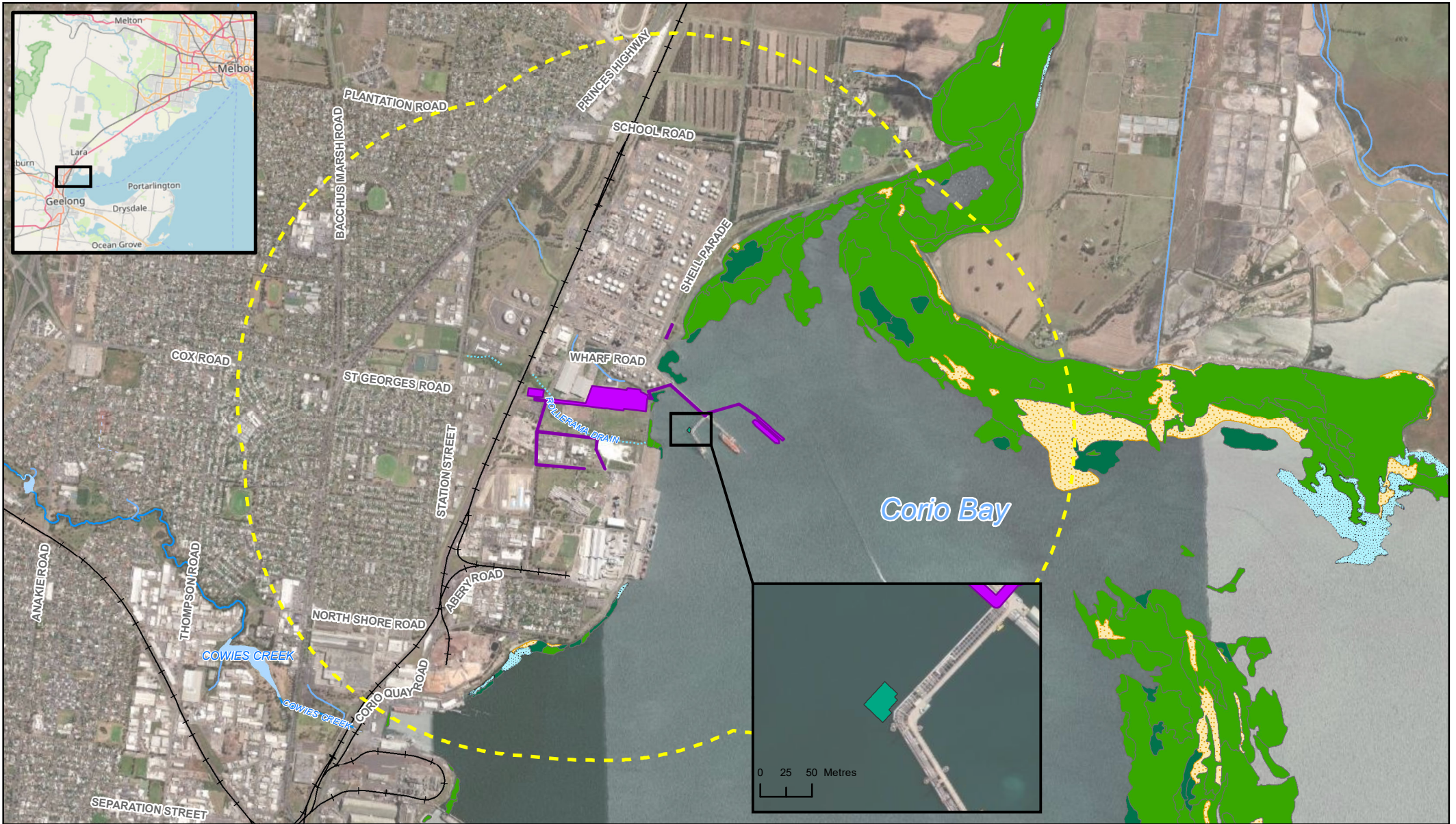
3.1 Biophysical boundaries

The Department of Environment, Land, Water and Planning (DELWP) has undertaken statewide marine habitat mapping and classification based on the combined biotope classification scheme (CBiCS), providing a unified way to classify all marine habitats and biotopes. Regional marine biounit areas are typically separated by one or more dominant physiographical settings, such as a large embayment or cliffed coastline. Each unit consists of a complex of habitat types, often incorporating littoral (intertidal) to circalittoral (subtidal) hard and soft substrata. The proposed project site falls within the Port Phillip Bay biounit.

The Port Phillip Bay biounit has been extensively mapped. Over 99% has been mapped at the broad habitat level and over 94% at the biotope complex level. The proposed project site lies within the biotope complex: Corio Bay silty-muds, which is classified as sublittoral muddy sediments with low species richness, based on infauna and epibiota (VEAC, 2019).

Seagrasses (benthic primary producers) are colonisers of mud, silt and sand, using their extensive rhizome systems to anchor them and consequently stabilising the sediments. Seagrass is an ecologically significant marine habitat that is both highly productive and provides food and shelter for many organisms. In Corio Bay, the coast between Limeburners Point and Corio Quay was characterised by two seagrass categories. *Zostera/Heterozostera* (generally with filamentous algae) was found in the shallower waters from the shore to a depth of approximately 3-5 m, with *H. australis* becoming dominant in the deeper water and where sediments were generally finer (Blake and Ball, 2001).

The closest seagrass bed (unmapped; Aquatica 2020) to the proposed project site is ~470 m away (Figure 2).



LEGEND

- Concept layout footprint
- Buffer 2km

Seagrass - Port Phillip Bay (2000)

- Bare Reef
- Bare Sediment
- Macroalgae
- Seagrass

- Seagrass Survey Zostera Muellieri (Aquatika Environmental, 2020)

Paper Size ISO A4
0 200 400 600 800
Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



GeelongPort
GeelongPort Hydrogen Facility EES Referral
Extent of benthic primary producer habitat relative to the proposed project site

Project No. 31-12559567
Revision No. 0
Date 27 Apr 2022

FIGURE 2

3.2 Protected areas

One Ramsar wetland is adjacent to the referral area: the Port Phillip Bay (western shoreline) and Bellarine Peninsula, which comprises six distinct areas, with the closest being Point Wilson/Limeburners Bay to the referral area (~1 km). Ramsar wetland ecological values and the species (e.g. shorebirds etc) associated with wetland are not included in this assessment but will be addressed in the terrestrial ecology assessment.

3.3 Matters of national environmental significance

3.3.1 Listed threatened and migratory species

An EPBC Protected Matters Search Tool (PMST) report was generated for the proposed project site (plus 2 km buffer) to determine the Matters of National Environmental Significance (MNES) and other matters protected by the EPBC Act that may occur in or may relate to this area (Attachment 1). In addition, a report from the Victorian Biodiversity Atlas (VBA) was also generated to determine if any species listed as threatened under the *Flora and Fauna Guarantee Act 1988* (FFG Act) may occur within or near the proposed project site (Attachment 2). A number of listed threatened and/or migratory marine species were identified as having the potential to occur within the proposed project site (Table 2). Solely freshwater species, terrestrial mammals or shorebird species that occurred in the reports have been excluded from Table 2 below as they are considered in other technical memos (e.g. terrestrial ecology). However, seabirds are included in this report.

Table 2 Threatened and/or migratory marine species potentially occurring within or around the referral area

Common Name	Species Name	EPBC Act Status	FFG Act Status	Likelihood of Occurrence
Mammals				
Southern Right Whale	<i>Eubalaena australis</i>	Endangered Migratory	Endangered	Rare
Humpback Whale	<i>Megaptera novaeangliae</i>	Vulnerable Migratory	-	Rare
Pygmy Right Whale	<i>Caperea marginata</i>	Migratory	-	Rare
Dusky Dolphin	<i>Lagenorhynchus obscurus</i>	Migratory	-	Rare
Reptiles				
Loggerhead Turtle	<i>Caretta</i>	Endangered Migratory	-	Unlikely
Green Turtle	<i>Chelonia mydas</i>	Vulnerable Migratory	-	Unlikely
Leatherback Turtle	<i>Dermochelys coriacea</i>	Endangered Migratory	Critically Endangered	Possible
Seabirds				
Antipodean Albatross	<i>Diomedea antipodensis</i>	Vulnerable Migratory	-	Rare
Southern Royal Albatross	<i>Diomedea epomophora</i>	Vulnerable Migratory	Critically Endangered	Unlikely
Wandering Albatross	<i>Diomedea exulans</i>	Vulnerable Migratory	Critically Endangered	Rare
Northern Royal Albatross	<i>Diomedea sanfordi</i>	Endangered Migratory	-	Rare
Buller's Albatross	<i>Thalassarche bulleri</i>	Vulnerable Migratory	Endangered	Rare

Common Name	Species Name	EPBC Act Status	FFG Act Status	Likelihood of Occurrence
Mammals				
Northern Buller's Albatross	<i>Northern Buller's Albatross</i>	Vulnerable	-	Rare
Shy Albatross	<i>Thalassarche cauta</i>	Endangered Migratory	Endangered	Possible
Grey-headed Albatross	<i>Thalassarche chrysostoma</i>	Endangered Migratory	Endangered	Possible
Campbell Albatross	<i>Thalassarche impavida</i>	Vulnerable Migratory	-	Rare
Black-browed Albatross	<i>Thalassarche melanophris</i>	Vulnerable Migratory	-	Possible
Salvin's Albatross	<i>Thalassarche salvini</i>	Vulnerable Migratory	-	Rare
White-capped Albatross	<i>Thalassarche steadi</i>	Vulnerable Migratory	-	Rare
Sooty Albatross	<i>Phoebastria fusca</i>	Vulnerable Migratory	Critically Endangered	Unlikely
Southern Giant Petrel	<i>Macronectes giganteus</i>	Endangered Migratory	Endangered	Possible
Northern Giant Petrel	<i>Macronectes halli</i>	Vulnerable Migratory	Endangered	Possible
Gould's Petrel	<i>Pterodroma leucoptera leucoptera</i>	Endangered	-	Unlikely
Common Noddy	<i>Anous stolidus</i>	Migratory	-	Possible
Flesh-footed Shearwater	<i>Ardenna carneipes</i>	Migratory	-	Likely
Sooty Shearwater	<i>Ardenna grisea</i>	Migratory	-	Rare
Fish and Sharks				
Great White Shark	<i>Carcharodon carcharias</i>	Vulnerable Migratory	Endangered	Unlikely
Porbeagle, Mackerel Shark	<i>Lamna nasus</i>	Migratory	-	Unlikely
Invertebrates				
Sea Cucumber	<i>Thyone nigra</i>	-	Endangered	Rare

3.3.2 Biologically important areas

Through the development of marine bioregional plans, biologically important areas (BIAs) have been identified for different species. BIAs are not defined under the EPBC Act, but they are areas that are particularly important for the conservation of protected species and where aggregations of individuals display biologically-important behaviour such as calving, foraging, resting or migration. Identified BIAs for marine mammals and seabirds that overlap the proposed project site are presented in Table 3.

Table 3 *Biologically important areas for marine fauna overlapping the proposed project site*

Species	BIA	Area / Location
Southern Right Whale	Known core range	Occur in coastal waters anywhere between Sydney and Perth, including off Tasmania
Short-tailed Shearwater	Foraging	Buffer around Tasmania including Bass Strait
Common Diving Petrel	Foraging	Buffer around Tasmania and Victoria
White-faced Storm Petrel	Foraging	Buffer around Melbourne and Port Phillip Bay
Shy Albatross	Foraging likely	The whole South-east marine region

4. Fisheries

Recreational fishing is popular in Victoria and is largely centred within Port Phillip Bay and Western Port. In these areas, commercial fishing is being phased out in favour of recreational fishing (VEAC, 2019). In Geelong, Snapper (pinkies), Snook, Flathead, Salmon, Whiting, Snot nose Trevally, leather-jackets, Mullet, Gummy Shark, Gurnard and Eels are targeted.

Three new rocky fishing reefs have been built in and around Corio Bay to give more fishers access to recreational fish species. The closest reef to the proposed project site is > 4 km away (VFA, 2021).

5. Potential impacts and mitigation

There are several ways in which the proposed project can interact with the marine environment, with potential impacts occurring both during the construction and operational phases. This section provides results of a systematic review of the environmental aspects and potential ecological impacts of the proposed project as they relate to the marine environment, for benthic habitats and marine fauna.

Potential mitigation measures identified in Table 4 are drawn from legislation and standard control measures which are implemented in the marine environment.

Potential risks from the project on marine ecology include:

- underwater noise (construction and operational)
- seabed disturbance and habitat change/displacement
- light pollution
- introduction of non-native and/or invasive species (IMS)
- vessel collisions with marine fauna
- unplanned events such as hydrocarbon spills.

Table 4 Overview of potential impacts to marine ecology at the proposed project site

Aspect	Potential Impact Description	Potential Mitigation Measures	Assessment
Underwater noise and vibration	<ul style="list-style-type: none"> Underwater noise and vibration from construction (piling) and operations may cause death, physical/auditory injury or behavioural disturbance to marine fauna 	<ul style="list-style-type: none"> Application of management measures to reduce impacts (e.g. soft start requirements, shut down procedures) 	Pile driving generates intense pulses of noise that have the potential to impact marine fauna including threatened and listed migratory marine species. While the likelihood of occurrence of many noise sensitive species (e.g. marine mammals and turtles) is rare or unlikely, adopting mitigation and management measures is good industry practice to reduce the risk.
Physical presence of infrastructure – below water (e.g. piles, concrete etc)	<ul style="list-style-type: none"> Physical presence of subsea infrastructure reduces, removes or disturbs benthic habitat. Physical presence of subsea infrastructure provides artificial substrate that results in creation of new benthic habitat and possible changes to communities 	<ul style="list-style-type: none"> Geophysical, geotechnical and benthic surveys to avoid sensitive habitats if possible 	<p>Given the extent of habitat loss will be relatively small and the probable low species richness of the proposed project site, it is unlikely that habitat loss will cause major flow-on impacts to benthic communities. Known seagrass communities should not be impacted given the approximate distance from the proposed project site.</p> <p>It is also unlikely that habitat loss would result in significant displacement of listed threatened/migratory species. The only threatened invertebrate identified as potentially occurring in the area is the sea cucumber <i>Thyone nigra</i>. However, this is a South Australian species, not endemic to Victoria, and last recorded in Port Phillip Bay/Corio Bay in 1958 and 1963 (O'Hara, T.D. 2002; O'Loughlin et al. 2012).</p>
IMS	<ul style="list-style-type: none"> Contaminated hulls may result in the introduction and establishment of IMS that are harmful to benthic habitats 	<ul style="list-style-type: none"> National biofouling guidance (e.g. biofouling risk assessment, record books, hull assessments etc) 	<p>Port Phillip Bay has the most marine pests in Victorian waters including northern Pacific seastar, broccoli weed, European fan worm, green shore crab, Japanese kelp (north of Port Phillip Bay and gradually colonising subtidal habitats southwards along east), Asian date mussel, Pacific oyster, red algae (<i>Grateloupia turuturu</i>) and toxic dinoflagellate (<i>Alexandrium minutum</i>). Legislation and guidance are in place to manage this specific risk.</p>

Aspect	Potential Impact Description	Potential Mitigation Measures	Assessment
Artificial lighting	<ul style="list-style-type: none"> – Lighting from construction and operational vessels may attract marine fauna and impact behaviour and/or movements 	<ul style="list-style-type: none"> – Lighting limited to that required for safe operations 	Vessels will have external lighting to facilitate navigation and safe operations. Given the major facilities already established at the Port of Geelong, additional lighting from the proposed project is unlikely to substantially increase current light levels experienced by marine fauna.
Unplanned fuel or chemical spills	<ul style="list-style-type: none"> – Diesel or chemical spills due to vessel collisions, refuelling incidents, tank/equipment failure or grounding could result in sub-lethal or lethal effects to marine fauna 	<ul style="list-style-type: none"> – Standard maritime legislation (e.g. MARPOL) including requirements or communication processes and navigation aids – Simultaneous operations management plans – Equipment maintenance to manufacturers specifications – Bunding and containment systems – Spill response plans 	Fuels, oils, lubricants and other chemicals can have lethal and sub-lethal effects on organisms and can persist in the environment for long periods of time. The risk of a spill cannot be completely eliminated. While additional vessels in the area may slightly increase the likelihood of a spill, vessel activities are well regulated, and control measures implemented across the industry.
Vessel strike	<ul style="list-style-type: none"> – The increased presence of vessels could result in injury/death of marine mammals 	<ul style="list-style-type: none"> – EPBC Act regulations for travel speeds and safe distances for marine mammals 	Factors contributing to the frequency and severity of effects from collisions vary greatly due to vessel type, vessel operation (specific activity, speed), physical environment (e.g. water depth) and the type of animal potentially present and their behaviours. Given the presence of marine mega-fauna at the proposed project site is unlikely and the proposed activities to be, the likelihood of serious injury is significantly reduced.

6. Conclusions and recommendations

The proposed project site does not appear to support significant numbers of threatened and/or migratory marine species. Overall, it is unlikely that the aspects described above would lead to a long-term decrease in the size their populations; however, it is acknowledged that there is some uncertainty on the presence/absence of these species and their use of habitat within and near the proposed project site. During the detailed design / construction phase, the following should be considered to reduce impacts to marine fauna and communities at the proposed project site:

- Conduct a benthic habitat survey to assess the presence of ecologically sensitive areas within the proposed project footprint
- Conduct underwater noise modelling to determine what additional steps are required to avoid and minimise impacts of piling noise on potential sensitive marine receptors

7. References

Aquatica Environmental (2020). Seagrass Assessment and Mapping for a new Mooring Dolphin at Lascelles Precinct Corio Bay, Victoria. Report Prepared for Senversa Pty Ltd on behalf of GeelongPort Proprietary Ltd November 2020.

Blake, S. and Ball, D. (2001). Victorian Marine Habitat Database: Seagrass Mapping of Port Phillip Bay. Geospatial Systems Section, Marine and Freshwater Resources Institute Report No. 39. Marine and Freshwater Resources Institute: Queenscliff.

O'Hara, T.D. (2002). Endemism, rarity and vulnerability of marine species along a temperate coastline. *Invertebrate Systematics*, 16: 671–684.

O'Loughlin, P.M. Barmos, S. and VandenSpiegel, D. (2012). The phylloporid sea cucumbers of southern Australia (Echinodermata: Holothuroidea: Dendrochirotida: Phylloporidae). *Memoirs of Museum Victoria* 69: 269–308.

[VEAC] Victorian Environmental Assessment Council (2019). Assessment of the Values of Victoria's Marine Environment – Atlas. Victorian Environmental Assessment Council, Melbourne

[VFA] Victorian Fisheries Authority (2021). Corio Bay Rocky Reefs. Available at: [Corio Bay Rocky Reefs - VFA](#) [Accessed 16 September 2021]

Regards

Kathryn Wheatley

Senior Marine Scientist

Attachment 1 - PMST Report

Attachment 2 - VBA Report

Attachments

Attachment 1

PMST Report



EPBC Act Protected Matters Report

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

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

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

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[Summary](#)

[Details](#)

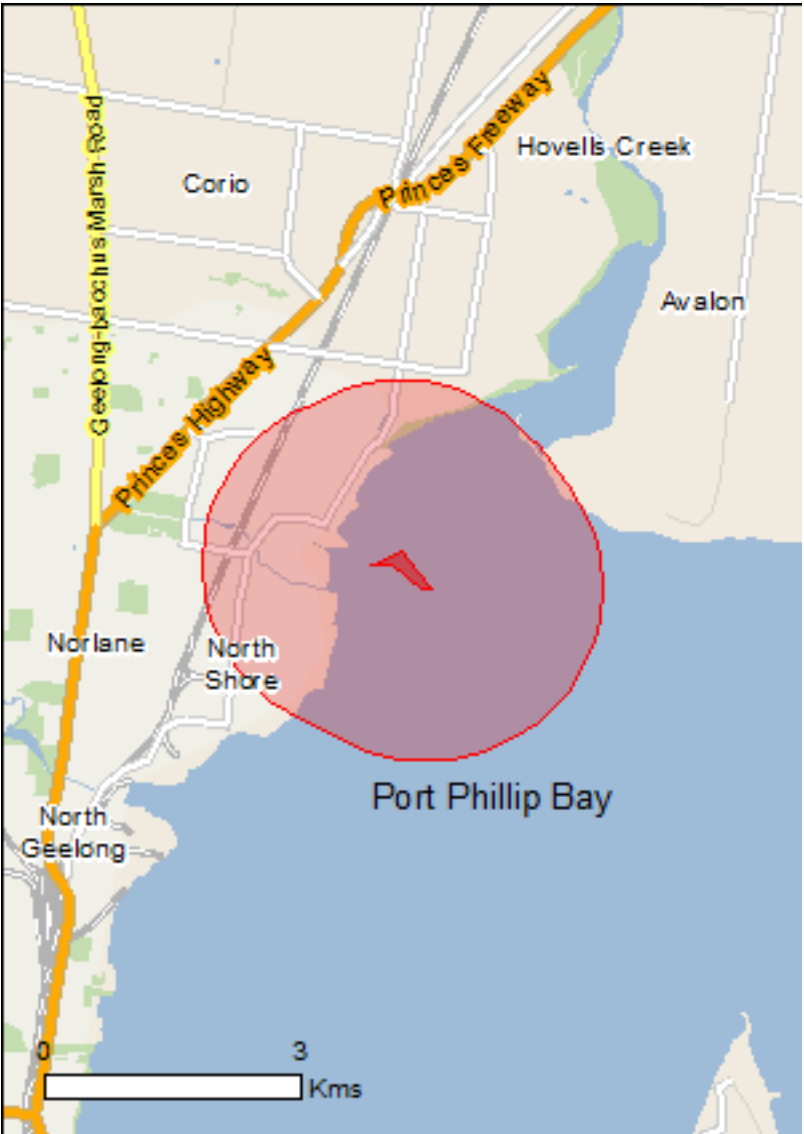
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

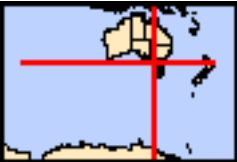
[Acknowledgements](#)



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[Coordinates](#)

[Buffer: 2.0Km](#)



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](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	1
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	4
Listed Threatened Species:	59
Listed Migratory Species:	58

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.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	68
Whales and Other Cetaceans:	7
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	None
Regional Forest Agreements:	1
Invasive Species:	33
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)		[Resource Information]
Name		Proximity
Port phillip bay (western shoreline) and bellarine peninsula		Within Ramsar site

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
Grassy Eucalypt Woodland of the Victorian Volcanic Plain	Critically Endangered	Community likely to occur within area
Natural Temperate Grassland of the Victorian Volcanic Plain	Critically Endangered	Community likely to occur within area
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area
White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland	Critically Endangered	Community likely to occur within area

Listed Threatened Species

[Resource Information]

Name	Status	Type of Presence
Birds		
Anthochaera phrygia Regent Honeyeater [82338]	Critically Endangered	Species or species habitat may occur within area
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely

Name	Status	Type of Presence
		to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
Grantiella picta Painted Honeyeater [470]	Vulnerable	Species or species habitat likely to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat likely to occur within area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat known to occur within area
Limosa lapponica baueri Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Neophema chrysogaster Orange-bellied Parrot [747]	Critically Endangered	Migration route likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat known to occur within area
Pedionomus torquatus Plains-wanderer [906]	Critically Endangered	Species or species habitat likely to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Pterodroma leucoptera leucoptera Gould's Petrel, Australian Gould's Petrel [26033]	Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Species or species habitat known to occur within area
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
Thalassarche bulleri platei Northern Buller's Albatross, Pacific Albatross [82273]	Vulnerable	Species or species habitat may occur within area

Name	Status	Type of Presence
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Thalassarche chrysostoma Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thinornis cucullatus cucullatus Eastern Hooded Plover, Eastern Hooded Plover [90381]	Vulnerable	Species or species habitat likely to occur within area
Fish		
Galaxiella pusilla Eastern Dwarf Galaxias, Dwarf Galaxias [56790]	Vulnerable	Species or species habitat likely to occur within area
Prototroctes maraena Australian Grayling [26179]	Vulnerable	Species or species habitat likely to occur within area
Frogs		
Litoria raniformis 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
Insects		
Synemon plana Golden Sun Moth [25234]	Critically Endangered	Species or species habitat may occur within area
Mammals		
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Plants		
Amphibromus fluitans River Swamp Wallaby-grass, Floating Swamp Wallaby-grass [19215]	Vulnerable	Species or species habitat likely to occur within area
Dianella amoena Matted Flax-lily [64886]	Endangered	Species or species habitat may occur within area
Dodonaea procumbens Trailing Hop-bush [12149]	Vulnerable	Species or species habitat may occur within area

Name	Status	Type of Presence
Glycine latrobeana Clover Glycine, Purple Clover [13910]	Vulnerable	Species or species habitat likely to occur within area
Lachnagrostis adamsonii Adamson's Blown-grass, Adamson's Blowngrass [76211]	Endangered	Species or species habitat may occur within area
Lepidium hyssopifolium Basalt Pepper-cress, Peppercress, Rubble Pepper-cress, Pepperweed [16542]	Endangered	Species or species habitat likely to occur within area
Leucochrysum albicans subsp. tricolor Hoary Sunray, Grassland Paper-daisy [89104]	Endangered	Species or species habitat may occur within area
Pimelea spinescens subsp. spinescens Plains Rice-flower, Spiny Rice-flower, Prickly Pimelea [21980]	Critically Endangered	Species or species habitat known to occur within area
Pterostylis cucullata Leafy Greenhood [15459]	Vulnerable	Species or species habitat may occur within area
Rutidosis leptorhynchoides Button Wrinklewort [67251]	Endangered	Species or species habitat may occur within area
Senecio macrocarpus Large-fruit Fireweed, Large-fruit Groundsel [16333]	Vulnerable	Species or species habitat likely to occur within area
Xerochrysum palustre Swamp Everlasting, Swamp Paper Daisy [76215]	Vulnerable	Species or species habitat may occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat may occur within area
Delma impar Striped Legless Lizard, Striped Snake-lizard [1649]	Vulnerable	Species or species habitat likely to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Tympanocryptis pinguicolla Grassland Earless Dragon [66727]	Endangered	Species or species habitat may occur within area
Sharks		
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to 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		
Anous stolidus Common Noddy [825]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area
Ardenna grisea Sooty Shearwater [82651]		Species or species habitat may occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Sternula albifrons Little Tern [82849]		Species or species habitat may occur within area
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Thalassarche chrysostoma Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		

Name	Threatened	Type of Presence
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Species or species habitat known to occur within area
Caperea marginata Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat may occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Lagenorhynchus obscurus Dusky Dolphin [43]		Species or species habitat may occur within area
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
Migratory Terrestrial Species		
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat likely to occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known to occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Arenaria interpres Ruddy Turnstone [872]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur

Name	Threatened	Type of Presence
Calidris melanotos Pectoral Sandpiper [858]		within area Species or species habitat known to occur within area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area
Calidris subminuta Long-toed Stint [861]		Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]		Species or species habitat known to occur within area
Charadrius bicinctus Double-banded Plover [895]	Critically Endangered	Species or species habitat known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]		Species or species habitat known to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat likely to occur within area
Limicola falcinellus Broad-billed Sandpiper [842]		Species or species habitat known to occur within area
Limosa lapponica Bar-tailed Godwit [844]	Endangered	Species or species habitat known to occur within area
Limosa limosa Black-tailed Godwit [845]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]		Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area
Phalaropus lobatus Red-necked Phalarope [838]		Species or species habitat known to occur within area
Philomachus pugnax Ruff (Reeve) [850]		Species or species habitat known to occur within area
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat known to occur within area
Pluvialis squatarola Grey Plover [865]		Species or species habitat known to occur within area
Tringa brevipes Grey-tailed Tattler [851]		Species or species habitat known to occur within area
Tringa glareola Wood Sandpiper [829]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Species or species habitat known to occur within area
Xenus cinereus Terek Sandpiper [59300]		Species or species habitat 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
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus Common Noddy [825]		Species or species habitat likely to occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Arenaria interpres Ruddy Turnstone [872]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Calidris subminuta Long-toed Stint [861]		Species or species habitat known to occur within area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Charadrius bicinctus Double-banded Plover [895]		Species or species habitat known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Charadrius ruficapillus Red-capped Plover [881]		Species or species habitat known to occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species habitat likely to occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat likely to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Heteroscelus brevipes Grey-tailed Tattler [59311]		Species or species habitat known to occur within area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Species or species habitat known to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat likely to occur within area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat known to occur within area
Limicola falcinellus Broad-billed Sandpiper [842]		Species or species habitat known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Limosa limosa Black-tailed Godwit [845]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Neophema chrysogaster Orange-bellied Parrot [747]	Critically Endangered	Migration route likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat may occur within area
Phalaropus lobatus Red-necked Phalarope [838]		Species or species habitat known to occur within area
Philomachus pugnax Ruff (Reeve) [850]		Species or species habitat known to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat known to occur within area
Pluvialis squatarola Grey Plover [865]		Species or species habitat known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Foraging, feeding or related behaviour likely to occur within area
Puffinus griseus Sooty Shearwater [1024]		Species or species habitat may occur within area
Recurvirostra novaehollandiae Red-necked Avocet [871]		Species or species habitat known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species

Name	Threatened	Type of Presence
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	habitat known to occur within area Species or species habitat likely to occur within area
Sterna albifrons Little Tern [813]		Species or species habitat may occur within area
Stiltia isabella Australian Pratincole [818]		Species or species habitat known to occur within area
Thalassarche bulleri Buller's Albatross, Pacific Albatross [64460]	Vulnerable	Species or species habitat may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Thalassarche chrysostoma Grey-headed Albatross [66491]	Endangered	Species or species habitat may occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thalassarche sp. nov. Pacific Albatross [66511]	Vulnerable*	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thinornis rubricollis rubricollis Hooded Plover (eastern) [66726]	Vulnerable*	Species or species habitat likely to occur within area
Tringa glareola Wood Sandpiper [829]		Species or species habitat known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Species or species habitat known to occur within area
Xenus cinereus Terek Sandpiper [59300]		Species or species habitat known to occur within area
Mammals		
Arctocephalus forsteri Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within area
Arctocephalus pusillus Australian Fur-seal, Australo-African Fur-seal		Species or species

Name	Threatened	Type of Presence
[21]		habitat may occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Species or species habitat may occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area

Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals		
Caperea marginata Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat known to occur within area
Lagenorhynchus obscurus Dusky Dolphin [43]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat may occur within area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Extra Information

Regional Forest Agreements		[Resource Information]
Note that all areas with completed RFAs have been included.		
Name	State	
West Victoria RFA	Victoria	
Invasive Species		[Resource Information]
Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.		
Name	Status	Type of Presence
Birds		

Name	Status	Type of Presence
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
Carduelis chloris European Greenfinch [404]		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
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
Mammals		
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		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
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

Name	Status	Type of Presence
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

Plants		
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		Species or species habitat likely to occur within area
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 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
Solanum elaeagnifolium Silver Nightshade, Silver-leaved Nightshade, White Horse Nettle, Silver-leaf Nightshade, Tomato Weed, White Nightshade, Bull-nettle, Prairie-berry, Satansbos, Silver-leaf Bitter-apple, Silverleaf-nettle, Trompillo [12323] Ulex europaeus Gorse, Furze [7693]		Species or species habitat likely to occur within area

Nationally Important Wetlands		[Resource Information]
Name		State
Werribee-Avalon Area		VIC

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

-38.087 144.387,-38.086 144.39,-38.089 144.393,-38.089 144.392,-38.087 144.389,-38.087 144.387

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](#)
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- [-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.

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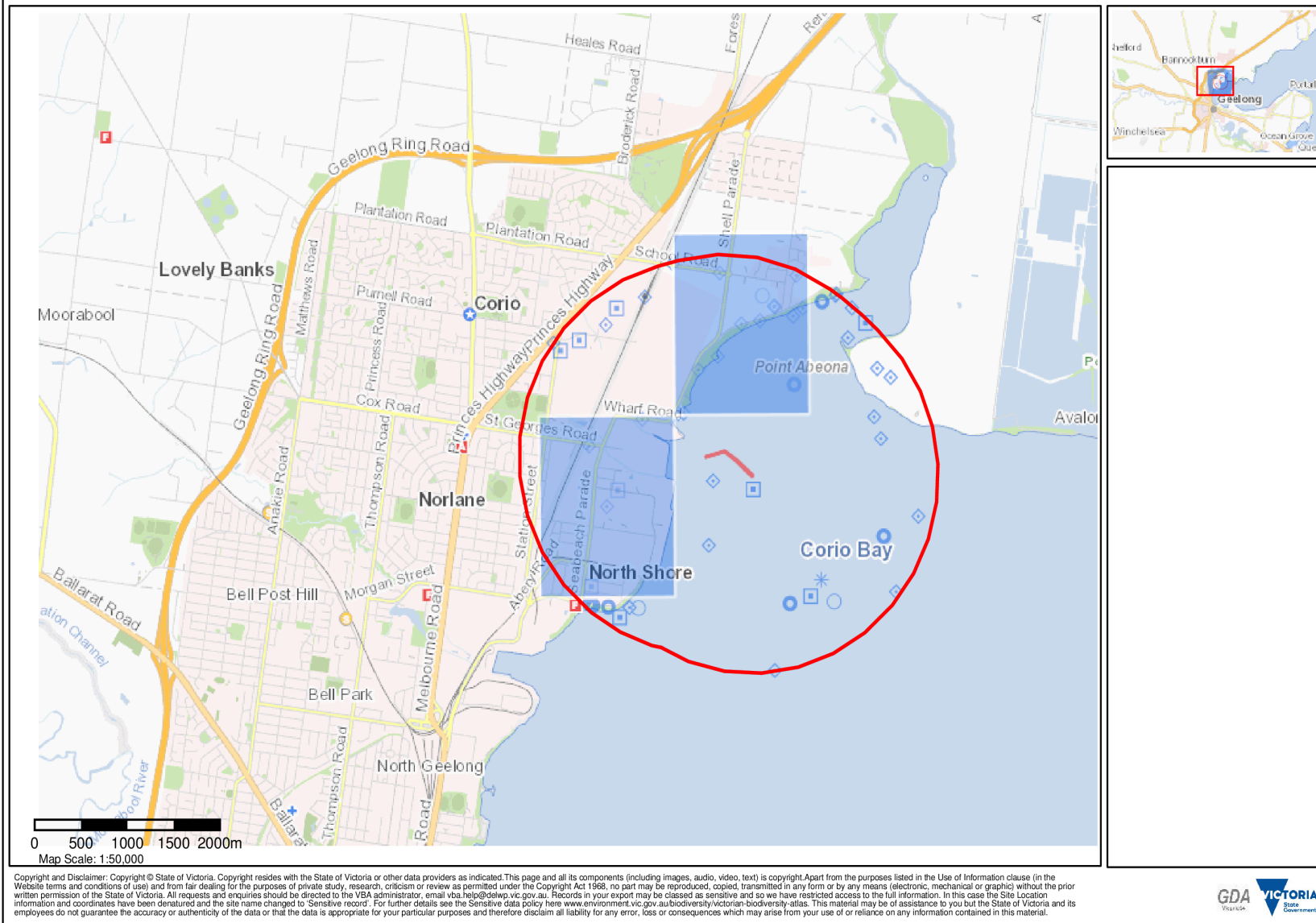
+61 2 6274 1111

Attachment 2

VBA Report

Victorian Biodiversity Atlas, Species Summary List

Victorian Biodiversity Atlas, Species Summary List



Selected Area

Type: Upload Shape Base Polygon: POLYGON ((144.387087 -38.087192, 144.386998 -38.087137, 144.38953 -38.086637, 144.390994 -38.087447, 144.392987 -38.088906, 144.392859 -38.089021, 144.390887 -38.087545, 144.390948 -38.087495, 144.389517 -38.086703, 144.387087 -38.087192, 144.387087 -38.087192)) Within: 2000 metres

Common Filter

Taxon Level: Species

Advanced Filter

No advanced filter criteria.

Total Records

200

Last Review Date:31 Aug 2021

Search Result

Taxon ID	Scientific Name	Common Name	FFG Status	Conservation Status	Discipline	Taxon Origin	Short Name	Count of Sightings	Last Record
10100	Microcarbo melanoleucos	Little Pied Cormorant			Terrestrial fauna			65	26/11/2016
10500	Calamanthus fuliginosus	Striated Fieldwren			Terrestrial fauna			1	22/03/1990
502100	Maireana decalvans s.l.	Black Cotton-bush			Flora		Mair de.sl	1	21/02/1998
502600	Poa labillardierei	Common Tussock-grass			Flora		Poa labill	1	21/02/1998
10005	Eudyptula minor	Little Penguin			Marine, Terrestrial fauna			2	17/08/2004
10043	Ocyphaps lophotes	Crested Pigeon			Terrestrial fauna			60	16/10/2016

10060	Podiceps cristatus	Great Crested Grebe			Terrestrial fauna	17	12/12/2015
10062	Poliiocephalus poliocephalus	Hoary-headed Grebe			Terrestrial fauna	26	24/07/2016
10071	Ardenna tenuirostris	Short-tailed Shearwater			Terrestrial fauna	1	11/11/2013
10096	Phalacrocorax carbo	Great Cormorant			Terrestrial fauna	1	17/05/1990
10097	Phalacrocorax sulcirostris	Little Black Cormorant			Terrestrial fauna	27	16/07/2016
10098	Phalacrocorax fuscescens	Black-faced Cormorant			Terrestrial fauna	2	09/12/2017
10099	Phalacrocorax varius	Pied Cormorant			Terrestrial fauna	38	25/11/2018
10104	Morus serrator	Australasian Gannet			Terrestrial fauna	13	26/11/2016
10106	Pelecanus conspicillatus	Australian Pelican			Terrestrial fauna	43	16/07/2016
10110	Chlidonias hybrida	Whiskered Tern			Terrestrial fauna	4	04/12/2018
10112	Hydroprogne caspia	Caspian Tern	Vulnerable	vu	Terrestrial fauna	6	16/05/2018
10115	Thalasseus bergii	Crested Tern			Terrestrial fauna	25	26/11/2016
10117	Sternula albifrons	Little Tern	Critically Endangered	cr	Terrestrial fauna	5	24/11/2018
10118	Sternula nereis	Fairy Tern	Critically Endangered	VU cr	Terrestrial fauna	6	24/11/2018
10125	Chroicocephalus novaehollandiae	Silver Gull			Terrestrial fauna	90	26/11/2016

10130	Haematopus longirostris	Pied Oystercatcher			Terrestrial fauna	23	26/11/2016
10133	Vanellus miles	Masked Lapwing			Terrestrial fauna	34	26/11/2016
10140	Charadrius bicinctus	Double-banded Plover			Terrestrial fauna	1	17/05/1990
10143	Charadrius ruficapillus	Red-capped Plover			Terrestrial fauna	1	17/05/1990
10149	Numenius madagascariensis	Eastern Curlew	Critically Endangered	CR cr	Terrestrial fauna	1	22/03/1990
10158	Tringa nebularia	Common Greenshank	Endangered	en	Terrestrial fauna	5	29/11/2014
10179	Threskiornis molucca	Australian White Ibis			Terrestrial fauna	4	10/02/2015
10180	Threskiornis spinicollis	Straw-necked Ibis			Terrestrial fauna	2	26/06/2020
10181	Platalea regia	Royal Spoonbill			Terrestrial fauna	6	28/07/2014
10185	Egretta garzetta	Little Egret	Endangered	en	Terrestrial fauna	35	16/05/2018
10188	Egretta novaehollandiae	White-faced Heron			Terrestrial fauna	23	12/12/2015
10203	Cygnus atratus	Black Swan			Terrestrial fauna	58	31/01/2016
10207	Tadorna tadornoides	Australian Shelduck			Terrestrial fauna	1	15/01/2014
10208	Anas superciliosa	Pacific Black Duck			Terrestrial fauna	2	24/09/2018
10210	Anas castanea	Chestnut Teal			Terrestrial fauna	48	01/02/2016
10211	Anas gracilis	Grey Teal			Terrestrial fauna	18	16/07/2016

10218	Circus assimilis	Spotted Harrier			Terrestrial fauna	1	10/01/2013
10221	Accipiter fasciatus	Brown Goshawk			Terrestrial fauna	2	24/07/2016
10225	Hieraaetus morphnoides	Little Eagle	Vulnerable	vu	Terrestrial fauna	1	22/03/1990
10226	Haliaeetus leucogaster	White-bellied Sea-Eagle	Endangered	en	Terrestrial fauna	1	12/09/2015
10228	Haliastur sphenurus	Whistling Kite			Terrestrial fauna	3	27/05/2014
10232	Elanus axillaris	Black-shouldered Kite			Terrestrial fauna	5	25/02/2015
10235	Falco longipennis	Australian Hobby			Terrestrial fauna	2	19/05/2014
10239	Falco berigora	Brown Falcon			Terrestrial fauna	1	30/11/2016
10240	Falco cenchroides	Nankeen Kestrel			Terrestrial fauna	2	04/01/2016
10241	Pandion cristatus	Eastern Osprey			Terrestrial fauna	1	16/11/2015
10254	Trichoglossus molucannus	Rainbow Lorikeet			Terrestrial fauna	9	16/10/2016
10258	Glossopsitta concinna	Musk Lorikeet			Terrestrial fauna	13	10/02/2015
10259	Parvipsitta porphyrocephala	Purple-crowned Lorikeet			Terrestrial fauna	11	01/11/2015
10269	Cacatua galerita	Sulphur-crested Cockatoo			Terrestrial fauna	1	14/07/2013
10271	Cacatua sanguinea	Little Corella			Terrestrial fauna	1	18/04/2020
10272	Cacatua tenuirostris	Long-billed Corella			Terrestrial fauna	1	16/07/2016

10273	<i>Eolophus roseicapilla</i>	Galah	Terrestrial fauna	6	16/11/2015
10274	<i>Nymphicus hollandicus</i>	Cockatiel	Terrestrial fauna	1	20/06/1999
10295	<i>Psephotus haematonotus</i>	Red-rumped Parrot	Terrestrial fauna	5	10/02/2015
10313	<i>Podargus strigoides</i>	Tawny Frogmouth	Terrestrial fauna	3	19/01/2016
10326	<i>Todiramphus sanctus</i>	Sacred Kingfisher	Terrestrial fauna	1	16/10/2016
10342	<i>Chrysococcyx basalis</i>	Horsfield's Bronze-Cuckoo	Terrestrial fauna	1	11/01/2014
10357	<i>Hirundo neoxena</i>	Welcome Swallow	Terrestrial fauna	18	26/11/2016
10362	<i>Rhipidura rufifrons</i>	Rufous Fantail	Terrestrial fauna	1	01/04/2014
10364	<i>Rhipidura leucophrys</i>	Willie Wagtail	Terrestrial fauna	31	16/07/2016
10415	<i>Grallina cyanoleuca</i>	Magpie-lark	Terrestrial fauna	52	24/07/2016
10424	<i>Coracina novaehollandiae</i>	Black-faced Cuckoo-shrike	Terrestrial fauna	2	18/09/2015
10448	<i>Epthianura albifrons</i>	White-fronted Chat	Terrestrial fauna	1	22/03/1990
10475	<i>Acanthiza pusilla</i>	Brown Thornbill	Terrestrial fauna	1	07/12/2015
10486	<i>Acanthiza chrysorrhoa</i>	Yellow-rumped Thornbill	Terrestrial fauna	2	16/04/2010
10488	<i>Sericornis frontalis</i>	White-browed Scrubwren	Terrestrial fauna	3	07/11/2015
10529	<i>Malurus cyaneus</i>	Superb Fairy-wren	Terrestrial fauna	32	26/11/2016

10565	<i>Pardalotus punctatus</i>	Spotted Pardalote		Terrestrial fauna		4	10/05/2015
10574	<i>Zosterops lateralis</i>	Silvereye		Terrestrial fauna		6	04/03/2014
10608	<i>Gavicalis virescens</i>	Singing Honeyeater		Terrestrial fauna		2	16/07/2016
10625	<i>Ptilotula penicillata</i>	White-plumed Honeyeater		Terrestrial fauna		17	26/11/2016
10631	<i>Phylidonyris novaehollandiae</i>	New Holland Honeyeater		Terrestrial fauna		44	26/11/2016
10638	<i>Anthochaera carunculata</i>	Red Wattlebird		Terrestrial fauna		41	26/11/2016
10647	<i>Anthus australis</i>	Australian Pipit		Terrestrial fauna		1	07/12/2013
10694	<i>Strepera graculina</i>	Pied Currawong		Terrestrial fauna		1	09/01/2014
10705	<i>Gymnorhina tibicen</i>	Australian Magpie		Terrestrial fauna		38	30/11/2016
10954	<i>Corvus mellori</i>	Little Raven		Terrestrial fauna		41	26/11/2016
10957	<i>Columba livia</i>	Domestic Pigeon	*	Terrestrial fauna	Introduced	9	21/05/2015
10977	<i>Bubulcus coromandus</i>	Eastern Cattle Egret		Terrestrial fauna		1	17/05/1990
10981	<i>Larus dominicanus</i>	Kelp Gull		Terrestrial fauna		1	17/05/1990
10989	<i>Spilopelia chinensis</i>	Spotted Dove	*	Terrestrial fauna	Introduced	32	26/11/2016
10991	<i>Turdus merula</i>	Common Blackbird	*	Terrestrial fauna	Introduced	28	26/11/2016
10993	<i>Alauda arvensis</i>	Eurasian Skylark	*	Terrestrial fauna	Introduced	1	22/03/1990
10995	<i>Passer domesticus</i>	House Sparrow	*	Terrestrial fauna	Introduced	63	26/11/2016

10997	Chloris chloris	European Greenfinch		*	Terrestrial fauna	Introduced		16	26/11/2016
10998	Acridotheres tristis	Common Myna		*	Terrestrial fauna	Introduced		24	12/12/2015
10999	Sturnus vulgaris	Common Starling		*	Terrestrial fauna	Introduced		52	26/11/2016
11349	Chalinolobus gouldii	Gould's Wattled Bat			Terrestrial fauna			1	12/03/1981
11412	Mus musculus	House Mouse		*	Terrestrial fauna	Introduced		1	22/03/1990
11510	Oryctolagus cuniculus	European Rabbit		*	Terrestrial fauna	Introduced		1	22/03/1990
11542	Arctocephalus pusillus doriferus	Australian Fur Seal			Marine, Terrestrial fauna			1	05/01/2017
11612	Tursiops truncatus	Common Bottle-nosed dolphin			Marine, Terrestrial fauna			1	02/03/1988
12013	Dermochelys coriacea	Leathery Turtle	Critically Endangered	EN cr	Marine, Terrestrial fauna			1	19/03/2017
15259	Thyone nigra	Sea-cucumber species	Endangered	en	Marine, Terrestrial fauna			1	01/01/1960
50239	Anatidae spp.	Ducks, Geese, Swans			Terrestrial fauna			1	01/11/2015
50253	Otariidae spp.	Eared Seals			Marine			1	12/02/2016
60126	Larus pacificus	Pacific Gull			Terrestrial fauna			36	24/11/2018
62430	Liopholis whitii GROUP	White's Skink			Terrestrial fauna			1	22/03/1990
500223	Lysimachia arvensis	Pimpernel		*	Flora	Introduced	Lysi arve	1	21/02/1998

500297	Symphyotrichum subulatum	Aster-weed	*	Flora	Introduced	Symp subu	2	21/02/1998
500316	Atriplex cinerea	Coast Saltbush		Flora		Atri cine	1	14/05/2003
500318	Atriplex prostrata	Hastate Orache	*	Flora	Introduced	Atri pros	2	14/05/2003
500332	Atriplex semibaccata	Berry Saltbush		Flora		Atri semi	1	21/02/1998
500392	Beta vulgaris subsp. maritima	Wild Beet	*	Flora	Introduced	Beta vul.m	1	21/02/1998
500488	Brassica fruticulosa	Twiggy Turnip	*	Flora	Introduced	Bras frut	1	21/02/1998
500495	Briza maxima	Large Quaking-grass	*	Flora	Introduced	Briz maxi	1	21/02/1998
500498	Bromus catharticus	Prairie Grass	*	Flora	Introduced	Brom cath	1	21/02/1998
500501	Bromus hordeaceus	Soft Brome	*	Flora	Introduced	Brom hord	1	21/02/1998
500582	Calocephalus citreus	Lemon Beauty-heads		Flora		Calo citr	1	21/02/1998
500736	Chenopodium album	Fat Hen	*	Flora	Introduced	Chen albu	1	21/02/1998
500810	Erigeron sumatrensis	Tall Fleabane	*	Flora	Introduced	Erig suma	1	21/02/1998
500812	Erigeron bonariensis	Flaxleaf Fleabane	*	Flora	Introduced	Erig bona	1	21/02/1998
500888	Hesperocyparis macrocarpa	Monterey Cypress	*	Flora	Introduced	Hesp macr	1	21/02/1998
500910	Hackelia suaveolens	Sweet Hound's-tongue		Flora		Hack suav	1	21/02/1998

500918	Cyperus eragrostis	Drain Flat- sedge	*	Flora	Introduced	Cype erag	1	21/02/1998
500948	Dactylis glomerata	Cocksfoot	*	Flora	Introduced	Dact glom	1	21/02/1998
500960	Rytidosperma auriculatum	Lobed Wallaby- grass		Flora		Rytid auri	1	21/02/1998
500975	Rytidosperma pilosum	Velvet Wallaby- grass		Flora		Rytid pilo	1	21/02/1998
500977	Rytidosperma racemosum var. racemosum	Slender Wallaby- grass		Flora		Rytid race	1	21/02/1998
501066	Diplotaxis tenuifolia	Sand Rocket	*	Flora	Introduced	Dipl tenu	1	21/02/1998
501073	Disphyma crassifolium subsp. clavellatum	Rounded Noon-flower		Flora		Disp cras	2	14/05/2003
501076	Distichlis distichophylla	Australian Salt-grass		Flora		Dist dist	2	14/05/2003
501118	Echinochloa crus-galli	Barnyard Grass	*	Flora	Introduced	Echi crus	1	21/02/1998
501128	Ehrharta erecta	Panic Veldt- grass	*	Flora	Introduced	Ehrh erect	1	21/02/1998
501129	Ehrharta longiflora	Annual Veldt- grass	*	Flora	Introduced	Ehrh long	1	21/02/1998
501133	Einadia nutans	Nodding Saltbush		Flora		Eina nuta	1	21/02/1998
501139	Eleocharis acuta	Common Spike-sedge		Flora		Eleo acut	1	21/02/1998
501145	Eleocharis pusilla	Small Spike- sedge		Flora		Eleo pusi	1	21/02/1998

501156	Enchylaena tomentosa var. tomentosa	Ruby Saltbush			Flora		Ench tome	1	21/02/1998
501370	Foeniculum vulgare	Fennel	*		Flora	Introduced	Foen vulg	1	21/02/1998
501375	Frankenia pauciflora var. gunnii	Southern Sea-heath			Flora		Fran pauc	1	14/05/2003
501389	Gahnia filum	Chaffy Saw-sedge			Flora		Gahn filu	2	14/05/2003
501399	Galenia pubescens var. pubescens	Galenia	*		Flora	Introduced	Gale pube	2	14/05/2003
501465	Euchiton involucratu s.s.	Star Cudweed			Flora		Euch in.ss	1	21/02/1998
501473	Diuris basaltica	Small Golden Moths	Critically Endangered	EN cr	Flora		Diur basa	1	21/02/1998
501499	Goodenia gracilis	Slender Goodenia			Flora		Good grac	1	21/02/1998
501509	Goodenia pinnatifida	Cut-leaf Goodenia			Flora		Good pinn	1	21/02/1998
501760	Imperata cylindrica	Blady Grass	#		Flora	Native but some stands may be alien	Impe cyli	1	14/05/2003
501772	Isolepis cernua s.s.	Nodding Club-sedge			Flora		Iso cer.ss	1	01/12/1994
501782	Ficinia nodosa	Knobby Club-sedge			Flora		Fici nodo	1	14/05/2003
501802	Juncus acutus subsp. acutus	Spiny Rush	*		Flora	Introduced	Junc acut	1	14/05/2003
501818	Juncus flavidus	Gold Rush			Flora		Junc flav	1	21/02/1998

501826	Juncus kraussii subsp. australiensis	Sea Rush		Flora		Junc krau	2	14/05/2003
501843	Juncus subsecundus	Finger Rush		Flora		Junc subs	1	21/02/1998
501864	Lagurus ovatus	Hare's-tail Grass	*	Flora	Introduced	Lagu ovat	1	14/05/2003
501933	Althenia bilocularis	Small-fruit Water-mat		Flora		Alth bilo	1	21/03/1982
502042	Lomandra filiformis	Wattle Mat-rush		Flora		Loma fili	1	21/02/1998
502078	Lycium ferocissimum	African Box-thorn	*	Flora	Introduced	Lyci fero	1	21/02/1998
502092	Lythrum hyssopifolia	Small Loosestrife		Flora		Lyth hyss	1	21/02/1998
502121	Malva nicaeensis	Mallow of Nice	*	Flora	Introduced	Malva nica	1	21/02/1998
502213	Modiola caroliniana	Red-flower Mallow	*	Flora	Introduced	Modi caro	1	21/02/1998
502263	Nassella trichotoma	Serrated Tussock	*	Flora	Introduced	Nass tric	2	28/03/2001
502431	Paspalum distichum	Water Couch	*	Flora	Introduced	Pasp dist	1	21/02/1998
502451	Cenchrus clandestinus	Kikuyu	*	Flora	Introduced	Cenc clan	1	21/02/1998
502511	Helminthotheca echioides	Ox-tongue	*	Flora	Introduced	Helm echi	1	01/12/1994
502553	Plantago coronopus	Buck's-horn Plantain	*	Flora	Introduced	Plan coro	2	21/02/1998
502626	Polygonum aviculare s.l.	Prostrate Knotweed	*	Flora	Introduced	Poly av.sl	1	21/02/1998
502640	Polypogon monspeliensis	Annual Beard-grass	*	Flora	Introduced	Poly mons	1	21/02/1998

502684	Portulaca oleracea	Common Purslane	#	Flora	Native but some stands may be alien	Port oler	1	21/02/1998
502827	Ptilotus macrocephalus	Feather Heads		Flora		Ptil macr	2	24/08/2002
502832	Ptilotus spathulatus	Pussy Tails		Flora		Ptil spat	1	21/02/1998
502969	Rumex conglomeratus	Clustered Dock	*	Flora	Introduced	Rume cong	2	21/02/1998
502970	Rumex crispus	Curled Dock	*	Flora	Introduced	Rume cris	1	21/02/1998
502992	Salpichroa organifolia	Pampas Lily- of-the-Valley	*	Flora	Introduced	Salp orig	1	21/02/1998
503001	Samolus repens	Creeping Brookweed		Flora		Samo repe	1	01/12/1994
503011	Salicornia blackiana	Thick-head Glasswort		Flora		Salic blac	1	14/05/2003
503012	Salicornia quinqueflora	Beaded Glasswort		Flora		Salic quin	1	14/05/2003
503039	Schoenus apogon	Common Bog-sedge		Flora		Scho apog	1	21/02/1998
503084	Tecticornia arbuscula	Shrubby Glasswort		Flora		Tect arbu	1	14/05/2003
503163	Sisyrinchium micranthum	Striped Rush- leaf	*	Flora	Introduced	Sisy micr	1	14/05/2003
503204	Sonchus oleraceus	Common Sow-thistle	*	Flora	Introduced	Sonc oler	1	21/02/1998
503312	Suaeda australis	Austral Seablite		Flora		Suae aust	1	14/05/2003
503366	Torilis arvensis	Spreading Hedge- parsley	*	Flora	Introduced	Tori arve	1	21/02/1998
503387	Themeda triandra	Kangaroo Grass		Flora		Them tria	1	21/02/1998

503417	Tragopogon porrifolius subsp. porrifolius	Salsify		*	Flora	Introduced	Trag porr	1	21/02/1998
503423	Trifolium angustifolium var. angustifolium	Narrow-leaf Clover		*	Flora	Introduced	Trif angu	1	21/02/1998
503428	Trifolium fragiferum var. fragiferum	Strawberry Clover		*	Flora	Introduced	Trif frag	1	21/02/1998
503429	Trifolium glomeratum	Cluster Clover		*	Flora	Introduced	Trif glom	1	21/02/1998
503435	Trifolium repens var. repens	White Clover		*	Flora	Introduced	Trif repe	1	21/02/1998
503449	Triglochin striata	Streaked Arrowgrass			Flora		Trig stri	1	14/05/2003
503574	Wilsonia humilis	Silky Wilsonia			Flora		Wils humi	1	14/05/2003
504301	Fraxinus angustifolia	Desert Ash		*	Flora	Introduced	Frax angu	1	21/02/1998
504337	Crassula tetramera	Australian Stonecrop			Flora		Crass tetr	1	21/02/1998
504363	Correa alba var. alba	White Correa			Flora		Corr al.a	1	14/05/2003
504444	Epilobium billardioreanu m subsp. billardioreanu m	Smooth Willow-herb			Flora		Ep bill.b	1	01/12/1994
504484	Eucalyptus leucoxylon subsp. connata	Melbourne Yellow-gum	Endangered	en	Flora		Euc leuc.c	2	12/04/2011
504798	Epilobium hirsutum	Great Willow- herb		*	Flora	Introduced	Epil hirsu	1	28/03/2005

504949	Salvia verbenaca var. verbenaca	Wild Sage	*	Flora	Introduced	Salv ve.vb	1	21/02/1998
505054	Vicia sativa subsp. sativa	Common Vetch	*	Flora	Introduced	Vici sat.s	1	21/02/1998
508038	Amaranthus spp.	Amaranth		Flora		Amaran spp	1	21/02/1998
508252	Convolvulus spp.	Bindweed		Flora		Convol spp	1	21/02/1998
508265	Crassula spp.	Crassula		Flora		Crass spp.	1	21/02/1998
508978	Ranunculus spp.	Buttercup		Flora		Ranunc spp	1	14/05/2003
509122	Taraxacum spp.	Dandelion		Flora		Tarax spp.	1	21/02/1998
509134	Thelymitra spp.	Sun Orchid		Flora		Thelym spp	1	21/02/1998
528555	Himantopus leucocephalus	Pied Stilt		Terrestrial fauna			1	12/08/2014
528559	Carduelis carduelis	European Goldfinch	*	Terrestrial fauna	Introduced		19	26/11/2016
903268	Ardea alba	Great Egret		Terrestrial fauna, Aquatic fauna			26	17/12/2018

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