



**Appendix L**  
**PMST Report**





Australian Government

Department of Climate Change, Energy,  
the Environment and Water

# 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. Please see the caveat for interpretation of information provided here.

Report created: 21-Jun-2023

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# Summary

## Matters of National Environment 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 (Ramsar)</a> | None |
| <a href="#">Great Barrier Reef Marine Park:</a>               | None |
| <a href="#">Commonwealth Marine Area:</a>                     | None |
| <a href="#">Listed Threatened Ecological Communities:</a>     | None |
| <a href="#">Listed Threatened Species:</a>                    | 30   |
| <a href="#">Listed Migratory Species:</a>                     | 47   |

## 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 <https://www.dcceew.gov.au/parks-heritage/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 Lands:</a>                                 | None |
| <a href="#">Commonwealth Heritage Places:</a>                       | None |
| <a href="#">Listed Marine Species:</a>                              | 77   |
| <a href="#">Whales and Other Cetaceans:</a>                         | 10   |
| <a href="#">Critical Habitats:</a>                                  | None |
| <a href="#">Commonwealth Reserves Terrestrial:</a>                  | None |
| <a href="#">Australian Marine Parks:</a>                            | None |
| <a href="#">Habitat Critical to the Survival of Marine Turtles:</a> | 3    |

## Extra Information

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

|   |      |
|---|------|
| <a href="#">State and Territory Reserves:</a>           | 2    |
| <a href="#">Regional Forest Agreements:</a>             | None |
| <a href="#">Nationally Important Wetlands:</a>          | None |
| <a href="#">EPBC Act Referrals:</a>                     | 3    |
| <a href="#">Key Ecological Features (Marine):</a>       | None |
| <a href="#">Biologically Important Areas:</a>           | 4    |
| <a href="#">Bioregional Assessments:</a>                | None |
| <a href="#">Geological and Bioregional Assessments:</a> | None |

# Details

## Matters of National Environmental Significance

### Listed Threatened Species

[\[ Resource Information \]](#)

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.  
Number is the current name ID.

| Scientific Name   | Threatened Category   | Presence Text  | Buffer Status       |
|---|-----------------------|--|---------------------|
| <b>BIRD</b>   |                       |  |                     |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]  | Endangered            | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]   | Critically Endangered | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Charadrius leschenaultii</a><br>Greater Sand Plover, Large Sand Plover [877]                        | Vulnerable            | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Erythrotriorchis radiatus</a><br>Red Goshawk [942]  | Endangered            | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Erythrura gouldiae</a><br>Gouldian Finch [413]  | Endangered            | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Limosa lapponica baueri</a><br>Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380] | Vulnerable            | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]                           | Critically Endangered | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Rostratula australis</a><br>Australian Painted Snipe [77037]  | Endangered            | Species or species habitat may occur within area       | In feature area     |

### MAMMAL

| Scientific Name   | Threatened Category | Presence Text  | Buffer Status       |
|---|---------------------|--|---------------------|
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]  | Endangered          | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Conilurus penicillatus</a><br>Brush-tailed Rabbit-rat, Brush-tailed Tree-rat, Pakooma [132]                       | Vulnerable          | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Dasyurus hallucatus</a><br>Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331] | Endangered          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Macroderma gigas</a><br>Ghost Bat [174]   | Vulnerable          | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Notomys aquilo</a><br>Northern Hopping-mouse, Woorrentinta [123]  | Endangered          | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Saccolaimus saccolaimus nudicluniatus</a><br>Bare-rumped Sheath-tailed Bat, Bare-rumped Sheath-tail Bat [66889]   | Vulnerable          | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Trichosurus vulpecula arnhemensis</a><br>Northern Brushtail Possum [83091]  | Vulnerable          | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Xeromys myoides</a><br>Water Mouse, False Water Rat, Yirrkoo [66]   | Vulnerable          | Species or species habitat likely to occur within area | In buffer area only |
| <b>REPTILE</b>  |                     |  |                     |
| <a href="#">Acanthophis hawkei</a><br>Plains Death Adder [83821]  | Vulnerable          | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]   | Endangered          | Breeding likely to occur within area                   | In buffer area only |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]   | Vulnerable          | Breeding known to occur within area                    | In buffer area only |

| Scientific Name  | Threatened Category | Presence Text   | Buffer Status       |
|--|---------------------|---|---------------------|
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]   | Endangered          | Breeding likely to occur within area                              | In buffer area only |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]                          | Vulnerable          | Breeding known to occur within area                               | In buffer area only |
| <a href="#">Lepidochelys olivacea</a><br>Olive Ridley Turtle, Pacific Ridley Turtle [1767] | Endangered          | Foraging, feeding or related behaviour known to occur within area | In buffer area only |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                               | Vulnerable          | Breeding known to occur within area                               | In buffer area only |

## SHARK

|  |                        |  |                     |
|--|------------------------|--|---------------------|
| <a href="#">Carcharodon carcharias</a><br>White Shark, Great White Shark [64470]   | Vulnerable             | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Glyphis glyphis</a><br>Speartooth Shark [82453]  | Critically Endangered  | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Pristis clavata</a><br>Dwarf Sawfish, Queensland Sawfish [68447]   | Vulnerable             | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Pristis pristis</a><br>Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756] | Vulnerable             | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Pristis zijsron</a><br>Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]  | Vulnerable             | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Rhincodon typus</a><br>Whale Shark [66680]   | Vulnerable             | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Sphyrna lewini</a><br>Scalloped Hammerhead [85267]   | Conservation Dependent | Species or species habitat likely to occur within area | In buffer area only |

## Listed Migratory Species

[ [Resource Information](#) ]

| Scientific Name        | Threatened Category | Presence Text | Buffer Status |
|------------------------|---------------------|---------------|---------------|
| Migratory Marine Birds |                     |               |               |

| Scientific Name  | Threatened Category | Presence Text  | Buffer Status       |
|--|---------------------|--|---------------------|
| <a href="#">Anous stolidus</a><br>Common Noddy [825]                                 |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Apus pacificus</a><br>Fork-tailed Swift [678]                            |                     | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Calonectris leucomelas</a><br>Streaked Shearwater [1077]                 |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Fregata ariel</a><br>Lesser Frigatebird, Least Frigatebird [1012]        |                     | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Fregata minor</a><br>Great Frigatebird, Greater Frigatebird [1013]       |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Phaethon lepturus</a><br>White-tailed Tropicbird [1014]                  |                     | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Sterna dougallii</a><br>Roseate Tern [817]                               |                     | Breeding known to occur within area                    | In buffer area only |
| <b>Migratory Marine Species</b>  |                     |  |                     |
| <a href="#">Anoxypristis cuspidata</a><br>Narrow Sawfish, Knifetooth Sawfish [68448] |                     | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Balaenoptera edeni</a><br>Bryde's Whale [35]                             |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]                             | Endangered          | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Carcharodon carcharias</a><br>White Shark, Great White Shark [64470]     | Vulnerable          | Species or species habitat may occur within area       | In buffer area only |



| Scientific Name  | Threatened Category | Presence Text   | Buffer Status       |
|--|---------------------|---|---------------------|
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]                                  | Endangered          | Breeding likely to occur within area                              | In buffer area only |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]  | Vulnerable          | Breeding known to occur within area                               | In buffer area only |
| <a href="#">Crocodylus porosus</a><br>Salt-water Crocodile, Estuarine Crocodile [1774]       |                     | Species or species habitat likely to occur within area            | In feature area     |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]     | Endangered          | Breeding likely to occur within area                              | In buffer area only |
| <a href="#">Dugong dugon</a><br>Dugong [28]  |                     | Species or species habitat known to occur within area             | In buffer area only |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]                            | Vulnerable          | Breeding known to occur within area                               | In buffer area only |
| <a href="#">Lepidochelys olivacea</a><br>Olive Ridley Turtle, Pacific Ridley Turtle [1767]   | Endangered          | Foraging, feeding or related behaviour known to occur within area | In buffer area only |
| <a href="#">Mobula alfredi as Manta alfredi</a><br>Reef Manta Ray, Coastal Manta Ray [90033] |                     | Species or species habitat likely to occur within area            | In buffer area only |
| <a href="#">Mobula birostris as Manta birostris</a><br>Giant Manta Ray [90034]               |                     | Species or species habitat likely to occur within area            | In buffer area only |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                                 | Vulnerable          | Breeding known to occur within area                               | In buffer area only |
| <a href="#">Orcaella heinsohni</a><br>Australian Snubfin Dolphin [81322]                     |                     | Species or species habitat known to occur within area             | In buffer area only |
| <a href="#">Orcinus orca</a><br>Killer Whale, Orca [46]                                      |                     | Species or species habitat may occur within area                  | In buffer area only |



| Scientific Name  | Threatened Category | Presence Text   | Buffer Status       |
|--|---------------------|---|---------------------|
| <a href="#">Pristis clavata</a><br>Dwarf Sawfish, Queensland Sawfish [68447]   | Vulnerable          | Species or species habitat known to occur within area | In buffer area only |
| <a href="#">Pristis pristis</a><br>Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756] | Vulnerable          | Species or species habitat may occur within area      | In feature area     |
| <a href="#">Pristis zijsron</a><br>Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]  | Vulnerable          | Species or species habitat known to occur within area | In buffer area only |
| <a href="#">Rhincodon typus</a><br>Whale Shark [66680]   | Vulnerable          | Species or species habitat may occur within area      | In buffer area only |
| <a href="#">Sousa sahalensis as Sousa chinensis</a><br>Australian Humpback Dolphin [87942]   |                     | Species or species habitat known to occur within area | In buffer area only |
| <b>Migratory Terrestrial Species</b>   |                     |   |                     |
| <a href="#">Cecropis daurica</a><br>Red-rumped Swallow [80610]   |                     | Species or species habitat may occur within area      | In feature area     |
| <a href="#">Cuculus optatus</a><br>Oriental Cuckoo, Horsfield's Cuckoo [86651]   |                     | Species or species habitat may occur within area      | In feature area     |
| <a href="#">Hirundo rustica</a><br>Barn Swallow [662]  |                     | Species or species habitat may occur within area      | In feature area     |
| <a href="#">Motacilla cinerea</a><br>Grey Wagtail [642]  |                     | Species or species habitat may occur within area      | In feature area     |
| <a href="#">Motacilla flava</a><br>Yellow Wagtail [644]  |                     | Species or species habitat may occur within area      | In feature area     |
| <b>Migratory Wetlands Species</b>  |                     |   |                     |
| <a href="#">Acrocephalus orientalis</a><br>Oriental Reed-Warbler [59570]   |                     | Species or species habitat may occur within area      | In feature area     |

| Scientific Name  | Threatened Category   | Presence Text  | Buffer Status       |
|--|-----------------------|--|---------------------|
| <a href="#">Actitis hypoleucos</a><br>Common Sandpiper [59309]                           |                       | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]                       |                       | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]                                 | Endangered            | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]                            | Critically Endangered | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Calidris melanotos</a><br>Pectoral Sandpiper [858]                           |                       | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Charadrius leschenaultii</a><br>Greater Sand Plover, Large Sand Plover [877] | Vulnerable            | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Charadrius veredus</a><br>Oriental Plover, Oriental Dotterel [882]           |                       | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Glareola maldivarum</a><br>Oriental Pratincole [840]                         |                       | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Limnodromus semipalmatus</a><br>Asian Dowitcher [843]                        |                       | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Limosa lapponica</a><br>Bar-tailed Godwit [844]                              |                       | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]    | Critically Endangered | Species or species habitat known to occur within area  | In feature area     |

| Scientific Name   | Threatened Category | Presence Text  | Buffer Status       |
|---|---------------------|--|---------------------|
| <a href="#">Pandion haliaetus</a><br>Osprey [952]                       |                     | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Tringa nebularia</a><br>Common Greenshank, Greenshank [832] |                     | Species or species habitat likely to occur within area | In buffer area only |

## Other Matters Protected by the EPBC Act

| Listed Marine Species  |                     |  | [ Resource Information ] |
|--|---------------------|--|--------------------------|
| Scientific Name  | Threatened Category | Presence Text  | Buffer Status            |
| Bird   |                     |  |                          |
| <a href="#">Acrocephalus orientalis</a><br>Oriental Reed-Warbler [59570] |                     | Species or species habitat may occur within area overfly marine area       | In feature area          |
| <a href="#">Actitis hypoleucos</a><br>Common Sandpiper [59309]           |                     | Species or species habitat known to occur within area                      | In feature area          |
| <a href="#">Anous stolidus</a><br>Common Noddy [825]                     |                     | Species or species habitat may occur within area                           | In buffer area only      |
| <a href="#">Apus pacificus</a><br>Fork-tailed Swift [678]                |                     | Species or species habitat likely to occur within area overfly marine area | In feature area          |
| <a href="#">Bubulcus ibis as Ardea ibis</a><br>Cattle Egret [66521]      |                     | Species or species habitat may occur within area overfly marine area       | In buffer area only      |
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]       |                     | Species or species habitat may occur within area                           | In feature area          |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]                 | Endangered          | Species or species habitat may occur within area overfly marine area       | In feature area          |



| Scientific Name  | Threatened Category   | Presence Text  | Buffer Status       |
|--|-----------------------|--|---------------------|
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]                            | Critically Endangered | Species or species habitat may occur within area overfly marine area | In feature area     |
| <a href="#">Calidris melanotos</a><br>Pectoral Sandpiper [858]                           |                       | Species or species habitat may occur within area overfly marine area | In feature area     |
| <a href="#">Calonectris leucomelas</a><br>Streaked Shearwater [1077]                     |                       | Species or species habitat may occur within area                     | In buffer area only |
| <a href="#">Cecropis daurica as Hirundo daurica</a><br>Red-rumped Swallow [80610]        |                       | Species or species habitat may occur within area overfly marine area | In feature area     |
| <a href="#">Charadrius leschenaultii</a><br>Greater Sand Plover, Large Sand Plover [877] | Vulnerable            | Species or species habitat likely to occur within area               | In feature area     |
| <a href="#">Charadrius veredus</a><br>Oriental Plover, Oriental Dotterel [882]           |                       | Species or species habitat may occur within area overfly marine area | In feature area     |
| <a href="#">Fregata ariel</a><br>Lesser Frigatebird, Least Frigatebird [1012]            |                       | Species or species habitat known to occur within area                | In feature area     |
| <a href="#">Fregata minor</a><br>Great Frigatebird, Greater Frigatebird [1013]           |                       | Species or species habitat may occur within area                     | In buffer area only |
| <a href="#">Glareola maldivarum</a><br>Oriental Pratincole [840]                         |                       | Species or species habitat may occur within area overfly marine area | In feature area     |
| <a href="#">Haliaeetus leucogaster</a><br>White-bellied Sea-Eagle [943]                  |                       | Species or species habitat known to occur within area                | In feature area     |

| Scientific Name  | Threatened Category   | Presence Text  | Buffer Status       |
|--|-----------------------|--|---------------------|
| <a href="#">Hirundo rustica</a><br>Barn Swallow [662]  |                       | Species or species habitat may occur within area overfly marine area | In feature area     |
| <a href="#">Limnodromus semipalmatus</a><br>Asian Dowitcher [843]  |                       | Species or species habitat may occur within area overfly marine area | In buffer area only |
| <a href="#">Limosa lapponica</a><br>Bar-tailed Godwit [844]  |                       | Species or species habitat likely to occur within area               | In buffer area only |
| <a href="#">Merops ornatus</a><br>Rainbow Bee-eater [670]  |                       | Species or species habitat may occur within area overfly marine area | In buffer area only |
| <a href="#">Motacilla cinerea</a><br>Grey Wagtail [642]  |                       | Species or species habitat may occur within area overfly marine area | In feature area     |
| <a href="#">Motacilla flava</a><br>Yellow Wagtail [644]  |                       | Species or species habitat may occur within area overfly marine area | In feature area     |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]                            | Critically Endangered | Species or species habitat known to occur within area                | In feature area     |
| <a href="#">Pandion haliaetus</a><br>Osprey [952]  |                       | Species or species habitat known to occur within area                | In buffer area only |
| <a href="#">Phaethon lepturus</a><br>White-tailed Tropicbird [1014]  |                       | Species or species habitat may occur within area                     | In feature area     |
| <a href="#">Rostratula australis as Rostratula benghalensis (sensu lato)</a><br>Australian Painted Snipe [77037] | Endangered            | Species or species habitat may occur within area overfly marine area | In feature area     |

| Scientific Name  | Threatened Category | Presence Text  | Buffer Status       |
|--|---------------------|--|---------------------|
| <a href="#">Sterna dougallii</a><br>Roseate Tern [817]   |                     | Breeding known to occur within area  | In buffer area only |
| <a href="#">Tringa nebularia</a><br>Common Greenshank, Greenshank [832]  |                     | Species or species habitat likely to occur within area overfly marine area | In buffer area only |
| <b>Fish</b>  |                     |  |                     |
| <a href="#">Campichthys tricarinatus</a><br>Three-keel Pipefish [66192]  |                     | Species or species habitat may occur within area                           | In feature area     |
| <a href="#">Choeroichthys brachysoma</a><br>Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]                       |                     | Species or species habitat may occur within area                           | In feature area     |
| <a href="#">Choeroichthys suillus</a><br>Pig-snouted Pipefish [66198]  |                     | Species or species habitat may occur within area                           | In feature area     |
| <a href="#">Corythoichthys amplexus</a><br>Fijian Banded Pipefish, Brown-banded Pipefish [66199]                               |                     | Species or species habitat may occur within area                           | In feature area     |
| <a href="#">Corythoichthys flavofasciatus</a><br>Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]         |                     | Species or species habitat may occur within area                           | In feature area     |
| <a href="#">Doryrhamphus excisus</a><br>Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211] |                     | Species or species habitat may occur within area                           | In feature area     |
| <a href="#">Doryrhamphus janssi</a><br>Cleaner Pipefish, Janss' Pipefish [66212]   |                     | Species or species habitat may occur within area                           | In feature area     |
| <a href="#">Festucalex cinctus</a><br>Girdled Pipefish [66214]   |                     | Species or species habitat may occur within area                           | In feature area     |
| <a href="#">Halicampus brocki</a><br>Brock's Pipefish [66219]  |                     | Species or species habitat may occur within area                           | In feature area     |



| Scientific Name  | Threatened Category | Presence Text                                    | Buffer Status   |
|--|---------------------|--|-----------------|
| <a href="#">Halicampus grayi</a><br>Mud Pipefish, Gray's Pipefish [66221]                        |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Halicampus spirostris</a><br>Spiny-snout Pipefish [66225]                            |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Haliichthys taeniophorus</a><br>Ribboned Pipehorse, Ribboned Seadragon [66226]       |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Hippichthys cyanospilos</a><br>Blue-speckled Pipefish, Blue-spotted Pipefish [66228] |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Hippichthys penicillus</a><br>Beady Pipefish, Steep-nosed Pipefish [66231]           |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Hippocampus histrix</a><br>Spiny Seahorse, Thorny Seahorse [66236]                   |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Hippocampus kuda</a><br>Spotted Seahorse, Yellow Seahorse [66237]                    |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Hippocampus planifrons</a><br>Flat-face Seahorse [66238]                             |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Hippocampus spinosissimus</a><br>Hedgehog Seahorse [66239]                           |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Micrognathus micronotopterus</a><br>Tidepool Pipefish [66255]                        |                     | Species or species habitat may occur within area | In feature area |
| <a href="#">Solegnathus hardwickii</a><br>Pallid Pipehorse, Hardwick's Pipehorse [66272]         |                     | Species or species habitat may occur within area | In feature area |

| Scientific Name  | Threatened Category | Presence Text   | Buffer Status       |
|--|---------------------|---|---------------------|
| <a href="#">Trachyrhamphus bicoarctatus</a><br>Bentstick Pipefish, Bend Stick Pipefish,<br>Short-tailed Pipefish [66280]       |                     | Species or species<br>habitat may occur<br>within area      | In feature area     |
| <a href="#">Trachyrhamphus longirostris</a><br>Straightstick Pipefish, Long-nosed<br>Pipefish, Straight Stick Pipefish [66281] |                     | Species or species<br>habitat may occur<br>within area      | In feature area     |
| <b>Mammal</b>  |                     |   |                     |
| <a href="#">Dugong dugon</a><br>Dugong [28]  |                     | Species or species<br>habitat known to<br>occur within area | In buffer area only |
| <b>Reptile</b>   |                     |   |                     |
| <a href="#">Acalyptophis peronii</a><br>Horned Seasnake [1114]   |                     | Species or species<br>habitat may occur<br>within area      | In buffer area only |
| <a href="#">Aipysurus duboisii</a><br>Dubois' Seasnake [1116]  |                     | Species or species<br>habitat may occur<br>within area      | In buffer area only |
| <a href="#">Aipysurus eydouxii</a><br>Spine-tailed Seasnake [1117]   |                     | Species or species<br>habitat may occur<br>within area      | In buffer area only |
| <a href="#">Aipysurus laevis</a><br>Olive Seasnake [1120]  |                     | Species or species<br>habitat may occur<br>within area      | In buffer area only |
| <a href="#">Astrotia stokesii</a><br>Stokes' Seasnake [1122]   |                     | Species or species<br>habitat may occur<br>within area      | In buffer area only |
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]  | Endangered          | Breeding likely to<br>occur within area                     | In buffer area only |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]  | Vulnerable          | Breeding known to<br>occur within area                      | In buffer area only |
| <a href="#">Chitulia inornata as Hydrophis inornatus</a><br>Plain Seasnake [87379]   |                     | Species or species<br>habitat may occur<br>within area      | In buffer area only |

| Scientific Name  | Threatened Category | Presence Text  | Buffer Status       |
|--|---------------------|--|---------------------|
| <a href="#">Chitulia ornata as Hydrophis ornatus</a><br>Spotted Seasnake, Ornate Reef Seasnake [87377] |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Crocodylus porosus</a><br>Salt-water Crocodile, Estuarine Crocodile [1774]                 |                     | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]               | Endangered          | Breeding likely to occur within area                   | In buffer area only |
| <a href="#">Disteira kingii</a><br>Spectacled Seasnake [1123]  |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Disteira major</a><br>Olive-headed Seasnake [1124]   |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Enhydrina schistosa</a><br>Beaked Seasnake [1126]  |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]                                      | Vulnerable          | Breeding known to occur within area                    | In buffer area only |
| <a href="#">Hydrelaps darwiniensis</a><br>Black-ringed Seasnake [1100]                                 |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Hydrophis atriceps</a><br>Black-headed Seasnake [1101]                                     |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Hydrophis elegans</a><br>Elegant Seasnake [1104]   |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Hydrophis macdowellii as Hydrophis mcdowellii</a><br>Small-headed Seasnake [75601]         |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Lapemis curtus as Lapemis hardwickii</a><br>Spine-bellied Seasnake [83554]                 |                     | Species or species habitat may occur within area       | In buffer area only |



| Scientific Name  | Threatened Category | Presence Text   | Buffer Status       |
|--|---------------------|---|---------------------|
| <a href="#">Leioselasma pacifica</a> as <a href="#">Hydrophis pacificus</a><br>Large-headed Seasnake, Pacific Seasnake [87378] |                     | Species or species habitat may occur within area                  | In buffer area only |
| <a href="#">Lepidochelys olivacea</a><br>Olive Ridley Turtle, Pacific Ridley Turtle [1767]                                     | Endangered          | Foraging, feeding or related behaviour known to occur within area | In buffer area only |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]   | Vulnerable          | Breeding known to occur within area                               | In buffer area only |
| <a href="#">Parahydrophis mertoni</a><br>Northern Mangrove Seasnake [1090]   |                     | Species or species habitat may occur within area                  | In buffer area only |
| <a href="#">Pelamis platurus</a><br>Yellow-bellied Seasnake [1091]   |                     | Species or species habitat may occur within area                  | In buffer area only |

### Whales and Other Cetaceans [ [Resource Information](#) ]

| Current Scientific Name   | Status     | Type of Presence                                      | Buffer Status       |
|---|------------|---|---------------------|
| <b>Mammal</b>   |            |   |                     |
| <a href="#">Balaenoptera edeni</a><br>Bryde's Whale [35]                              |            | Species or species habitat may occur within area      | In buffer area only |
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]                              | Endangered | Species or species habitat may occur within area      | In buffer area only |
| <a href="#">Delphinus delphis</a><br>Common Dolphin, Short-beaked Common Dolphin [60] |            | Species or species habitat may occur within area      | In buffer area only |
| <a href="#">Grampus griseus</a><br>Risso's Dolphin, Grampus [64]                      |            | Species or species habitat may occur within area      | In buffer area only |
| <a href="#">Orcaella heinsohni</a><br>Australian Snubfin Dolphin [81322]              |            | Species or species habitat known to occur within area | In buffer area only |

| Current Scientific Name   | Status | Type of Presence                                       | Buffer Status       |
|---|--------|--|---------------------|
| <a href="#">Orcinus orca</a><br>Killer Whale, Orca [46]   |        | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Sousa sahalensis</a><br>Australian Humpback Dolphin [87942]                                 |        | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Stenella attenuata</a><br>Spotted Dolphin, Pantropical Spotted Dolphin [51]                 |        | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Tursiops aduncus</a><br>Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418] |        | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Tursiops truncatus s. str.</a><br>Bottlenose Dolphin [68417]                                |        | Species or species habitat may occur within area       | In buffer area only |

### Habitat Critical to the Survival of Marine Turtles

| Scientific Name   | Behaviour | Presence       | Buffer Status       |
|---|-----------|----------------|---------------------|
| Aug - Sep   |           |                |                     |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]      | Nesting   | Known to occur | In feature area     |
| Dec - Jan   |           |                |                     |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]             | Nesting   | Known to occur | In buffer area only |
| Nov - May   |           |                |                     |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766] | Nesting   | Known to occur | In buffer area only |

### Extra Information

| State and Territory Reserves |                           |       | [ Resource Information ] |
|------------------------------|---------------------------|-------|--------------------------|
| Protected Area Name          | Reserve Type              | State | Buffer Status            |
| Anindilyakwa                 | Indigenous Protected Area | NT    | In feature area          |
| Anindilyakwa                 | Indigenous Protected Area | NT    | In buffer area only      |

## EPBC Act Referrals

[ [Resource Information](#) ]

| Title of referral  | Reference | Referral Outcome | Assessment Status | Buffer Status   |
|--|-----------|------------------|-------------------|-----------------|
| <a href="#">Winchelsea Island Manganese Mine Project, NT</a> | 2021/8877 |                  | Assessment        | In feature area |

### Not controlled action (particular manner)

|  |           |   |               |                     |
|--|-----------|---|---------------|---------------------|
| <a href="#">Acoustic and Resistivity Sub-Bottom Profiling Survey</a> | 2011/6116 | Not Controlled Action (Particular Manner) | Post-Approval | In buffer area only |
|--|-----------|---|---------------|---------------------|

### Referral decision

|  |           |                   |           |                 |
|--|-----------|-------------------|-----------|-----------------|
| <a href="#">Groote Eylandt Offshore Marine Surveys</a> | 2010/5643 | Referral Decision | Completed | In feature area |
|--|-----------|-------------------|-----------|-----------------|

## Biologically Important Areas

| Scientific Name   | Behaviour               | Presence        | Buffer Status       |
|---|-------------------------|-----------------|---------------------|
| <b>Marine Turtles</b>   |                         |                 |                     |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]             | Internesting            | Likely to occur | In buffer area only |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766] | Internesting            | Likely to occur | In buffer area only |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]      | Internesting            | Likely to occur | In buffer area only |
| <b>Seabirds</b>   |                         |                 |                     |
| <a href="#">Sterna dougallii</a><br>Roseate Tern [817]            | Breeding (high numbers) | Known to occur  | In buffer area only |



# Caveat

## 1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

## 2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

## 3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and 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

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

Where little information is available for a 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 detailed distribution mapping methods are used to update these distributions

## 4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

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

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

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

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

# Acknowledgements

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

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

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

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