

TECHNICAL MEMORANDUM

Likelihood of occurrence

EPBC Act Referral

Lot 9003 Placid Waters Parade, Coodanup

PROJECT NUMBER	EP25-135(08)	DOC. NO.	EP25-135(08)--011 DTA
PROJECT NAME	Residential development of Lot 9003	CLIENT	Wolfdene
AUTHOR	DTA	REVIEWER(s)	SCM CIB
VERSION	1	DATE	7/07/2026

1. INTRODUCTION

BMP Land Projects Pty Ltd (the Proponent) propose the residential development of 28 Placid Waters Parade, Lot 9003 in Coodanup (referred to herein as the 'Proposed Action'). The proponent is referring the Proposed Action to the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) pursuant to the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

This technical memorandum provides a summary of the Matters of National Environmental Significance (MNES) relevant to the Proposed Action through a likelihood of occurrence assessment.

2. METHODS

As part of preparations for the ecological surveys completed over the Project Area, a search was conducted for MNES that may occur within a 10 km radius using the Protected Matters Search Tool (PMST) on 10 October 2023. An updated MNES search using the PMST was conducted on 5 June 2026 and the results of the MNES identified in the EPBC Act Business Portal, have been considered in this assessment to ensure all MNES relevant to the Proposed Action were able to be addressed as part of the referral. The most recent PMST report from 5 June 2026 has been included as **Attachment A**.

The information contained within the terrestrial flora and fauna studies completed within the Project Area have informed this updated likelihood of occurrence:

- *Detailed Flora and Vegetation Assessment* (Emerge Associates 2024b)
- *Basic Fauna and Targeted Black Cockatoo Assessment* (Emerge Associates 2024a)
- *Shorebird Survey Report* (Emerge Associates 2026).

To determine likelihood of occurrence, information relating to the MNES identified using the EPBC Act Business Portal and the previous and most recent PMST report were reviewed. This has included consideration of the species profiles, characteristics/habitat preferences, management plans, recovery plans as well as historic and the recent biological surveys indicated above. Species information was compared to existing environmental data available for the Project Area, from various public datasets and the ecological surveys of the Project Area. This included consideration of factors such as geomorphology, soils, vegetation types, and historic land use, to understand the potential for MNES to occur.

3. MNES RELEVANCE

The MNES relevance assessment is based on the summary from the EPBC Act Business Portal and a search of the Commonwealth's EPBC PMST which identified MNES that could occur within a 10 km radius of the Project area. A summary of the MNES relevant to the Project Area is provided based on the likelihood of occurrence and is outlined in **Table 1** below.

Table 1: Summary of Matters of National Environmental Significance relevant to the Project Area.

Matters of National Environmental Significance	MNES identified within 10 km of the Project Area based on the PMST searches	Relevance to the Project Area
World Heritage areas	There are no World Heritage areas in the vicinity of the Project Area.	Not relevant.
National Heritage Places	There are no National Heritage places in the vicinity of the Project Area.	Not relevant.
Wetlands of international importance (listed under the Ramsar convention)	Two (2) Wetlands of International Importance, namely Becher Point wetlands and Peel-Yalgorup system, are identified within a 10 km buffer surrounding the Project Area.	One wetland listed on the Ramsar wetlands of international importance, namely the Peel-Yalgorup system, is located south of the Project Area (opposite Peel Parade, outside the Project Area)
Listed Threatened species	Forty-three (43) listed Threatened Species are identified within a 10 km buffer surrounding the Project Area.	- Two (2) Threatened fauna species pertinent to the EPBC Act were considered 'likely' to occur based on the presence of suitable habitat, recent and reliable records, and results recorded during ecological survey: <i>Calyptorhynchus banksii naso</i> (Forest-red tailed black cockatoo) <i>Zanda latirostris</i> (Carnaby's black cockatoo). - Fifteen (15) Threatened fauna species pertinent to the EPBC Act were considered 'possible' to occur based on the presence of potentially suitable habitat, recent and reliable records and results recorded during ecological surveys: <i>Arenaria interpres</i> (Ruddy turnstone) <i>Calidris acuminata</i> (Sharp-tailed sandpiper) <i>Calidris canutus</i> (Red knot) <i>Calidris ferruginea</i> (Curlew Sandpiper) <i>Calidris tenuirostris</i> (Great knot) <i>Charadrius leschenaultii</i> (Great sand plover) <i>Charadrius mongolus</i> (Lesser sand plover) <i>Limosa limosa</i> (Black-tailed godwit) <i>Numenius madagascariensis</i> (Eastern curlew)

Table 1 (continued): Summary of Matters of National Environmental Significance relevant to the Project Area.

Matters of National Environmental Significance	MNES identified within 10 km of the Project Area based on the PMST searches	Relevance to the Project Area
[continued from above]		○ <i>Pluvialis squatarola</i> (Grey plover) ○ <i>Sternula albifrons</i> (Little Tern) ○ <i>Sternula nereis nereis</i> (Australian fairy tern) ○ <i>Tringa nebularia</i> (Common Greenshank, Greenshank) ○ <i>Zanda baudinii</i> (Baudins's black cockatoo) ○ <i>Xenus cinereus</i> (Terek sandpiper) • The assessment of likelihood of occurrence for all species identified in the PMST searches are included below in Table 2.
Listed migratory species (protected under international agreements)	• Fifty-nine (59) listed Migratory Species are identified within a 10 km buffer surrounding the Project Area.	• Two (2) migratory bird species were recorded within the Project Area, namely: ○ <i>Pandion haliaetus</i> – Osprey ○ <i>Hydroprogne caspia</i> – Caspian tern • Thirty-two (32) migratory bird species may possibly occur in the vicinity of the Project Area: ○ <i>Actitis hypoleucos</i> (Common Sandpiper) ○ <i>Apus pacificus</i> (Pacific swift) ○ <i>Arenaria interpres</i> (Ruddy turnstone) ○ <i>Calidris acuminata</i> (Sharp-tailed sandpiper) ○ <i>Calidris alba</i> (Sanderling) ○ <i>Calidris canutus</i> (Red knot) ○ <i>Calidris falcinellus</i> (Broad-billed sandpiper) ○ <i>Calidris ferruginea</i> (Curlew Sandpiper) ○ <i>Calidris ruficollis</i> (Red-necked stint) ○ <i>Calidris subminuta</i> (Long-toed Stint) ○ <i>Calidris melanotos</i> (Pectoral sandpiper) ○ <i>Calidris tenuirostris</i> (Great knot) ○ <i>Charadrius dubius</i> (Little ringed plover) ○ <i>Charadrius leschenaultii</i> (Great sand plover) ○ <i>Chlidonias leucopterus</i> (White-winged black tern) ○ <i>Charadrius mongolus</i> (Lesser sand plover) ○ <i>Gelochelidon nilotica</i> (Gull-billed tern) ○ <i>Limosa limosa</i> (Black-tailed godwit)

Table 1 (continued): Summary of Matters of National Environmental Significance relevant to the Project Area.

Matters of National Environmental Significance	MNES identified within 10 km of the Project Area based on the PMST searches	Relevance to the Project Area
[continued from above]		○ <i>Limosa lapponica</i> (Bar-tailed Godwit) ○ <i>Numenius madagascariensis</i> (Eastern curlew) ○ <i>Numenius phaeopus</i> (Whimbrel) ○ <i>Plegadis falcinellus</i> (Glossy Ibis) ○ <i>Pluvialis fulva</i> (Pacific Golden Plover) ○ <i>Pluvialis squatarola</i> (Grey Plover) ○ <i>Sternula albifrons</i> (Little Tern) ○ <i>Sterna hirundo</i> (Common tern) ○ <i>Tringa brevipes</i> (Grey tailed tattler) ○ <i>Tringa nebularia</i> (Common Greenshank, Greenshank) ○ <i>Tringa stagnatilis</i> (Marsh Sandpiper, Little Greenshank) ○ <i>Tringa glareola</i> (Wood Sandpiper) ○ <i>Thalasseus bergii</i> (Crested tern) ○ <i>Xenus cinereus</i> (Terek sandpiper) • Twenty-one (21) of the thirty-four (34) migratory species identified above are listed under the EPBC Act solely as migratory species (i.e. they are not also listed as threatened). • Twenty-five (25) of the thirty-four (34) migratory species identified above are classified as shorebirds as per the EPBC Act <i>Policy Statement 3.21</i> (DCCEEW 2017). Of these, thirteen (13) are listed under the EPBC Act solely as migratory species (i.e. they are not also listed as threatened). • The assessment of likelihood of occurrence for all species identified in the PMST search is included below in Table 2.
Listed threatened and migratory species	• Twenty-seven (27) listed Threatened Migratory Species are identified within a 10 km buffer surrounding the Project Area.	• Thirteen (13) threatened migratory species may possibly occur in the vicinity of the Project Area: ○ <i>Arenaria interpres</i> (Ruddy turnstone) ○ <i>Calidris acuminata</i> (Sharp-tailed sandpiper) ○ <i>Calidris canutus</i> (Red knot) ○ <i>Calidris ferruginea</i> (Curlew Sandpiper) ○ <i>Calidris tenuirostris</i> (Great knot) ○ <i>Charadrius leschenaultia</i> (Great sand plover) ○ <i>Charadrius mongolus</i> (Lesser sand plover)

Table 1 (continued): Summary of Matters of National Environmental Significance relevant to the Project Area.

Matters of National Environmental Significance	MNES identified within 10 km of the Project Area based on the PMST searches	Relevance to the Project Area
[continued from above]		○ <i>Limosa limosa</i> (Black-tailed godwit) ○ <i>Numenius madagascariensis</i> (Eastern curlew) ○ <i>Pluvialis squatarola</i> (Grey Plover) ○ <i>Sternula albifrons</i> (Little Tern) ○ <i>Tringa nebularia</i> (Common Greenshank) ○ <i>Xenus cinereus</i> (Terek sandpiper) • The assessment of likelihood of occurrence for all species identified in the PMST searches are included below in Table 2. • Twelve (12) of the thirteen (13) migratory species identified above are classified as shorebirds as per the EPBC Act Policy Statement 3.21 (DCCEEW 2017).
Listed threatened flora species	Thirteen (13) listed threatened flora species were identified within a 10 km buffer surrounding the Project Area.	• No threatened flora species were assessed to occur within the Project Area.
Listed Threatened Ecological Communities	• Two (2) listed TECs may occur within a 10 km buffer surrounding the Project Area, including: ○ Empodisma peatlands of southwestern Australia (Endangered). ○ Honeymyrtle shrubland on limestone ridges of the Swan Coastal Plain Bioregion (Critically Endangered). • Four (4) listed TECs are considered likely to occur within the Project Area, including: ○ Banksia Woodlands of the Swan Coastal Plain (Endangered). ○ Clay Pans of the Swan Coastal Plain (Critically Endangered). ○ Subtropical and Temperate Coastal Saltmarsh (Vulnerable). Tuart (<i>Eucalyptus gomphocephala</i>) Woodlands and Forests of the Swan Coastal Plain ecological community (Critically Endangered).	• One (1) TEC, namely the Subtropical and Temperate Coastal Saltmarsh, was identified during the ecological surveys to occur within the Project Area. • No other TECs were identified during the ecological surveys to occur within the Project Area – ecological surveys were conducted specifically to determine the presence/absence of TECs within the Project Area. • The Project Area is not located in an area and/or contains suitable habitat which might suggest other TECs identified during the desktop searches would occur. Likelihood of occurrence for TEC's are considered further in Table 3.
Commonwealth marine areas	• The Project Area is not located in a Commonwealth marine area.	• Not relevant.
Great Barrier Reef Marine Park	• The Project Area is not located in the Great Barrier Reef Marine Park.	• Not relevant.
Nuclear actions (including uranium mines)	• The Project Area is not likely to represent a significant impact to the environment resulting from a Nuclear Action.	• Not relevant.
Water resources (that relate to coal seam gas development and large coal mining development)	• The Project Area is not a coal seam gas or coal mining development.	• Not relevant.

4. THREATENED SPECIES AND ECOLOGICAL COMMUNITIES

An assessment of the likelihood of occurrence for the listed threatened species and communities within the Project Area was undertaken for each species identified in the PMST searches. Each species was assigned to one of the following categories:

- Recorded: the species or community has been previously recorded in the Project Area or was recorded during a field survey.
- Likely: suitable habitat for the species or community occurs and it is likely the species may occur based on recent a historical record within or nearby the Project Area.
- Possible: the Project Area contains marginal habitat and/or extent for the species or community and is located within the known distribution range for the species but there is no other information to suggest the species may occur within or nearby the Project Area.
- Unlikely: no suitable habitat for the species or community and/or no recent literature records occur within a 10 km radius of the Project Area and/or sufficient survey effort has been conducted to conclude the species is unlikely to occur.

Table 2 outlines the threatened and migratory species and their potential to occur based on results from ecological surveys with consideration to relevant literature to factor habitat preference, sightings and historical records of the species. It should be noted that marine bird, marine mammal and migratory marine birds identified by the PMST were disregarded as part of this assessment given the distance of the Project Area from marine areas. MNES considered likely to occur or possible to occur have been highlighted in green.

Table 2: Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Birds					
<i>Actitis hypoleucos</i>	Common Sandpiper	Migratory	Edge of sheltered waters salt or fresh, e.g. estuaries, mangrove creeks, rocky coasts, near-coastal saltlakes (including saltwork ponds), river pools, lagoons, claypans, drying swamps, flood waters, dams and sewage ponds. Preferring situations where low perches are available (Johnstone & Storr 1998).	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area, despite the absence of recent and reliable records of the species.
<i>Anous stolidus</i>	Common Noddy	Migratory	Tropical and subtropical seas, cayes, reefs, buoys and piles (Pizzey & Knight 2012).	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Anous tenuirostris melanops</i>	Australian lesser noddy	Vulnerable	Very common in blue-water seas around the Abrolhos (endemic to this area, accidental occurrences on lower west coast of Australia) (Johnstone and Storr 1998).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Apus pacificus</i>	Pacific swift	Migratory	Aerial, migratory species that is most often seen over inland plains and sometimes above open areas, foothills or in coastal areas. Sometimes occurs over settled areas, including towns, urban areas and cities (Pizzey and Knight 2012).	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Ardenna carneipes</i>	Flesh-footed shearwater	Migratory	Marine species that breeds on islands off south coast from near Cape Leeuwin (Johnstone and Storr 1998).	Unlikely	- PMST suggests foraging, feeding or related behaviour is likely to occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area
<i>Ardenna grisea</i>	Sooty shearwater	Vulnerable (Migratory)	Marine, migratory species that may visit south-western Australian waters from June to October (Pizzey & Knight 2012).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Arenaria interpres</i>	Ruddy turnstone	Vulnerable (Migratory)	Tidal mud and reef flats, sheltered rocky coasts, stony and seaweedy beaches and sandpits, dry coral ridges (Abrolhos) and pebbly shores of near-coastal saltlakes (including saltwork ponds) (Johnstone and Storr 1998).	Possible	- PMST suggests that roosting is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area, despite the absence of recent or reliable records of the species.
<i>Botaurus poiciloptilus</i>	Australasian Bittern	Endangered	Marine species that breeds on islands off south coast from near Cape Leeuwin (Johnstone and Storr 1998).	Unlikely	- PMST suggests the species or suitable habitat for the species may to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Calidris acuminata</i>	Sharp-tailed sandpiper	Vulnerable (Migratory)	Occurs in tidal mudflats, saltmarshes and mangroves, as well as, shallow fresh, brackish or saline inland wetlands. It is also known from floodwaters, irrigated pastures and crops, sewage ponds, saltfields (Pizzey and Knight 2012).	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area, despite the absence of recent or reliable records of the species.

Table 2 (continued): Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Birds (continued)					
<i>Calidris alba</i>	Sanderling	Migratory	Mainly steeply shelving sandy beaches exposed to ocean swell. Also sandy inlets, estuarine sandbanks and near-coastal saltlakes (including saltwork ponds) (Johnstone & Storr 1998).	Possible	- PMST suggests that roosting is likely to occur within the Project Area. - Numerous reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat, despite the absence of recent and reliable records of the species.
<i>Calidris canutus</i>	Red knot	Endangered (Migratory)	Mud and sand flats in estuaries and on sheltered coasts. Also near-coastal saltlakes, including saltwork ponds (Pizzey and Knight 2012).	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area, despite the absence of recent or reliable records of the species.
<i>Calidris falcinellus</i> (previously <i>Limicola falcinellus</i>)	Broad-billed sandpiper	Migratory	Tidal mudflats, reefs, saltmarsh, freshwater wetlands, sewage ponds, favours muddy ooze (Pizzey & Knight 2012).	Possible	- PMST suggests that roosting is likely to occur within the Project Area. - No recent or reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within f the Project Area, despite the absence of recent or reliable records of the species.
<i>Calidris ferruginea</i>	Curlew Sandpiper	Critically Endangered (Migratory)	Mainly shallows of estuaries and near-coastal saltlakes (including saltwork ponds) and drying near-coastal freshwater lakes and swamps. Also beaches and near-coastal sewage ponds (Johnstone & Storr 1988).	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area, despite the absence of recent or reliable records of the species.
<i>Calidris melanotos</i>	Pectoral sandpiper	Migratory	Mainly fresh waters (swamps, lagoons, river pools, irrigation channels and sewage ponds); also samphire flats around estuaries and saltlakes (Johnstone & Storr 1998).	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat, despite the absence of recent and reliable records of the species.
<i>Calidris ruficollis</i>	Red-necked stint	Migratory	Tidal mudflats, saltmarshes, sandy or shelly beaches, saline and freshwater wetlands (coastal and inland), saltfields, sewage ponds (Pizzey and Knight 2012).	Possible	- PMST suggests that roosting is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area, despite the absence of recent or reliable records of the species.
<i>Calidris subminuta</i>	Long-toed Stint	Migratory	Mainly freshwater swamps (especially when drying and where vegetation is short), river pools, lagoons and claypans; also brackish pools, sewage ponds and samphire flats around estuaries and saltlakes (Johnstone & Storr 1988).	Possible	- PSMT suggests that roosting is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area, despite the absence of recent or reliable records of the species.
<i>Calidris tenuirostris</i>	Great knot	Vulnerable (Migratory)	Mud or sand flats in estuaries and on sheltered coasts. Also near-coastal saltlakes, including saltwork ponds (Johnstone & Storr 1988).	Possible	- PMST suggests that roosting is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area, despite the absence of recent or reliable records of the species.

Table 2 (continued): Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Birds (continued)					
<i>Calyptorhynchus banksii naso</i>	Forest Red-tailed Black-Cockatoo, Karrak	Vulnerable	Eucalypt and Corymbia forests, often in hilly interior. More recently also observed in more open agricultural and suburban areas including Perth metropolitan area. Attracted to seeding <i>Corymbia calophylla</i> , <i>Eucalyptus marginata</i> , introduced <i>Melia azedarach</i> and <i>Eucalyptus spp.</i> trees (Johnstone et al. 2013).	Likely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Recent and reliable records within 10 km of the Project Area. - Suitable habitat is present in the Project Area. - The species is considered 'likely' to occur within the Project Area given the presence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Calidris pugnax</i>	Ruff	Migratory	Fresh, brackish and saline wetlands; tidal mudflats, saltfields, sewage ponds (Pizzey & Knight 2012).	Unlikely	- PSMT suggests that roosting is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Charadrius dubius</i>	Little ringed plover	Migratory	Open, muddy or sandy shores of lakes, swamps, tidal areas, sewage ponds or farm dams. Rare but regular summer migrant to Australia (Pizzey & Knight 2012).	Possible	- The PMST search did not identify the species. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area - The species is considered 'Possible' to occur within the Project Area given the occurrence suitable habitat within the Project Area and recent and reliable records of the species.
<i>Charadrius leschenaultii</i>	Great sand plover	Vulnerable (Migratory)	Wide sandy or shelly beaches, sandpits, tidal mudflats, reefs, sand cays, mangroves, saltmarsh, dune wilderness, bare paddocks, seldom far inland (Pizzey & Knight 2012).	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area, despite the absence of recent or reliable records of the species.
<i>Charadrius mongolus</i>	Lesser sand plover	Endangered (Migratory)	Sandy beaches and tidal estuarine flats. Also near-coastal saltlakes, including saltwork ponds (Johnstone & Storr 1998).	Possible	- PSMT suggests that roosting is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area, despite the absence of recent or reliable records of the species.
<i>Childonias leucopterus</i>	White-winged black tern	Migratory	Vegetated and open wetlands, brackish and saline lakes, saltfields, irrigated lands, sewage ponds and occasionally offshore (Pizzey & Knight 2012).	Possible	- The PMST search did not identify the species. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area - The species is considered 'Possible' to occur within the Project Area given the occurrence suitable habitat within the Project Area and recent and reliable records of the species.
<i>Diomedea amsterdamensis</i>	Amsterdam Albatross	Endangered (Migratory)	The Amsterdam albatross is a marine, pelagic seabird. It nests in open patchy vegetation (among tussocks, ferns or shrubs) near exposed ridges or hillocks (Weimerskirch et al. 1985). It sleeps and rests on ocean waters when not breeding (Marchant and Higgins 1990)	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.

Table 2 (continued): Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Birds (continued)					
<i>Diomedea epomophora</i>	Southern Royal Albatross	Vulnerable (Migratory)	Rare visitor to Western Australian seas; it breeds on subantarctic islands south of New Zealand (Johnstone and Storr 1998).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Diomedea exulans</i>	Wandering Albatross	Vulnerable	Marine, pelagic and aerial species. It breeds on Macquarie Island and feeds in Australian portions of the Southern Ocean (DCCEEW 2022).	Unlikely	- PMST suggests that foraging, feeding or related behaviour is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Diomedea dabbenena</i>	Tristan Albatross	Endangered (Migratory)	The Tristan albatross is a marine, pelagic seabird. It forages in open water in the Atlantic Ocean near the Cape of Good Hope, South Africa. It sleeps and rests on ocean waters when not breeding (Marchant and Higgins 1990).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Falco hypoleucos</i>	Grey Falcon	Vulnerable	Species occurs in arid and semi-arid Australia, where it inhabits timbered lowland plains. In particular Acacia shrublands and that are crossed by tree-lined water courses. Species has also been observed hunting in treeless areas and frequenting tussock grassland and open woodlands (TSSC 2020).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Gallinago megala</i>	Swinhoe's Snipe	Migratory	Wet, grassy ground; edges of reedy swamps (Pizzey & Knight 2012).	Unlikely	- PMST suggests that roosting is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Gallinago stenura</i>	Pin-tailed Snipe	Migratory	Boggy edges of vegetated wetlands; sewage and other ponds; stubbles, grasslands with shrubs, pastures (Pizzey & Knight 2012).	Unlikely	- PMST suggests that roosting is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Gelochelidon nilotica</i>	Gull-billed tern	Migratory	Beaches, mudflats; fresh, brackish wetlands, including far inland; grasslands, crops, ploughed fields, airfields (Pizzey & Knight 2012).	Possible	- The PMST search did not identify the species. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area - The species is considered 'Possible' to occur within the Project Area given the occurrence suitable habitat within the Project Area and recent and reliable records of the species.
<i>Halobaena caerulea</i>	Blue Petrel	Vulnerable	Marine species that breeds on southern subantarctic and northern artic islands. Only an accidental or uncommon visitor to Western Australian waters (Johnstone & Storr 1998).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Hydroprogne caspia</i>	Caspian tern	Migratory	Mainly sheltered areas, estuaries (when not laden with silt) and tidal creeks; occasionally near-coastal saltlakes (including saltwork ponds) and brackish pools in lower courses of rivers; rarely fresh waters (DCCEEW 2023).	Recorded	- PMST suggests that foraging, feeding or related behaviour is likely to occur within 10 km of the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species was recorded during ecological survey of the Project Area.

Table 2 (continued): Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Birds (continued)					
<i>Leipoa ocellata</i>	Malleefowl	Vulnerable	Scrubs and thickets of Eucalyptus spp., Melaleuca lanceolata and Acacia linophylla; also other dense litter-forming shrublands. Attracted to fallen wheat in stubbles and along roads (Johnstone and Storr 1998).	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Limosa limosa</i>	Black-tailed godwit	Endangered (Migratory)	Tidal mudflats, estuaries, sewage ponds, shallow river margins, brackish or saline inland lakes, flooded pastures, airfields (Pizzey & Knight 2012).	Possible	- PSMT suggests that roosting is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area.
<i>Limosa lapponica menzbieri</i>	Bar-tailed Godwit	Endangered (Migratory)	Mainly coastal habitats such as large intertidal sandflats, banks, mudflats, estuaries, inlets, harbours, coastal lagoons and bays. Has also been recorded in coastal sewage farms and saltworks, saltlakes and brackish wetlands near coasts, sandy ocean beaches, rock platforms, and coral reef-flats (Higgins and Davies 1996).	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Limosa lapponica</i>	Bar-tailed Godwit	Migratory	Estuarine sand and mudflats and sandy beaches with loads of seaweed; also reef flats and nearcoastal saltlakes (including saltwork and sewage ponds)	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Macronectes giganteus</i>	Southern Giant-Petrel, Southern Giant Petrel	Endangered (Migratory)	Breeds on southern subantarctic and antarctic islands. May visit Western Australian waters from February to December (mostly June to September) (Johnstone and Storr 1998).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within the Project Area. - One (1) reliable but not recent record of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Macronectes halli</i>	Northern Giant Petrel	Vulnerable (Migratory)	Breeds on subantarctic islands. May visit Western Australian water from February to September (Johnstone and Storr 1998).	Unlikely	- PMST suggests that foraging, feeding or related behaviour is likely to occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Motacilla cinerea</i>	Grey Wagtail	Migratory	In Australia mostly near running water in disused quarries, sandy and rocky streams in escarpments and rainforests, sewage ponds, ploughed fields and airfields (Pizzey & Knight 2012).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Numenius madagascariensis</i>	Eastern curlew	Critically Endangered (Migratory)	Mainly tidal mudflats; also reef flats, sandy beaches and rarely near-coastal lakes (including saltwork ponds) (Johnstone and Storr 1998).	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat and recent and reliable records within the proximity of the Project Area.

Table 2 (continued): Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Birds (continued)					
<i>Numenius minutus</i>	Little Curlew, Little Whimbrel	Migratory	Dry grasslands, floodplains, margins of drying swamps; tidal mudflats, airfields, playing fields, crops, commercial saltfields, sewage ponds (Pizzey & Knight 2012).	Unlikely	- PSMT suggests that roosting is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Numenius phaeopus</i>	Whimbrel	Migratory	Estuaries, mangroves, tidal flats, coral cays, exposed reefs, flooded paddocks, sewage ponds, bare grasslands, sportsgrounds and lawns (Pizzey & Knight 2012).	Possible	- PSMT suggests that roosting is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area.
<i>Onychoprion anaethetus</i>	Bridled Tern	Migratory	Tropical and subtropical seas, offshore islands, rarely coasts (Pizzey & Knight 2012).	Unlikely	- PMST suggests that foraging, feeding or related behaviour is likely to occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Pachyptila turtur subantarctica</i>	Fairy Prion (southern)	Vulnerable	Breeds on subantarctic islands and is presumed to frequent subtropical waters during non-breeding period (TSSC 2015).	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area
<i>Pandion haliaetus</i>	Osprey	Migratory	Coasts, estuaries, bays, inlets, islands, and surrounding waters; coral atolls, reefs, lagoons, rock cliffs, stacks (Pizzey & Knight 2012).	Recorded	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Reliable but not recent records within 10 km of the Project Area. - Suitable habitat is present in the Project Area. - The species was recorded during ecological survey of the Project Area.
<i>Phaethon rubricauda westralis</i>	Red-tailed Tropicbird (Indian Ocean), In feature area Indian Ocean Red-tailed Tropicbird	Endangered (Migratory)	Breeding occurs seasonally in loose colonies on small, remote oceanic islands mostly on inaccessible cliffs. No regular migrations are known; adults can be found in the vicinity of colonies all year round (Schreiber & Schreiber 2020).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area
<i>Phoebastria fusca</i>	Sooty albatross	Vulnerable (Migratory)	Marine, pelagic species that tolerates a wide range of sea surface temperatures and salinities. breeds on subtropical and subantarctic islands in the Indian and Atlantic Oceans, on vegetated cliffs and steep slopes that are sheltered from prevailing winds, often amongst tussock grass (Pizzey & Knight 2012).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Plegadis falcinellus</i>	Glossy Ibis	Migratory	Well-vegetated wetlands, wet pasture, ricefields, floodwaters, floodplains, brackish or occasionally saline wetlands, mangroves, mudflats and occasionally dry grassland (Pizzey & Knight 2012).	Possible	- The PMST search did not identify the species. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area - The species is considered 'Possible' to occur within the Project Area given the occurrence suitable habitat within the Project Area and recent and reliable records of the species.
<i>Pluvialis fulva</i>	Pacific Golden Plover	Migratory	Estuaries, mudflats, saltmarshes, mangroves; rocky reefs and stranded seaweed on ocean shores; margins of shallow open inland swamps; sewage ponds, short-grass paddocks, sportsgrounds, airfields, ploughed land (Pizzey & Knight 2012).	Possible	- PSMT suggests that roosting is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area.

Table 2 (continued): Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Birds (continued)					
<i>Pluvialis squatarola</i>	Grey Plover	Vulnerable (Migratory)	Mudflats, saltmarsh, tidal reefs and estuaries, rarely inland (Pizzey and Knight 2012).	Possible	- The PMST search did not identify the species. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area - The species is considered 'Possible' to occur within the Project Area given the occurrence suitable habitat within the Project Area and recent and reliable records of the species.
<i>Pterodroma mollis</i>	Soft-plumaged petrel	Vulnerable	Marine species that breeds on temperate and subantarctic islands in south Atlantic and south Indian Ocean. Visitor to West Australian waters from March to September. Rarely observed inshore (Johnstone & Storr 1998).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Rostratula australis</i>	Australian Painted Snipe	Endangered	Mainly shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans (Marchant and Higgins 1993).	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Sterna dougallii</i>	Roseate Tern	Migratory	Offshore waters, islands, coral reefs, sand cays, beaches, tidal inlets (Pizzey & Knight 2012).	Unlikely	- PMST suggests that foraging, feeding or related behaviour is likely to occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Sterna hirundo</i>	Common tern	Migratory	Offshore waters, beaches, reefs, bays, estuaries, sandflats, saltfields, sewage ponds, freshwater wetlands (Pizzey & Knight 2012).	Possible	- The PMST search did not identify the species. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area - The species is considered 'Possible' to occur within the Project Area given the occurrence suitable habitat within the Project Area and recent and reliable records of the species.
<i>Sternula albifrons</i>	Little Tern	Vulnerable (Migratory)	Species is mainly coastal, being found on beaches, sheltered inlets, estuaries, lakes, sewage farms, lagoons, river mouths and deltas (Pizzey & Knight 2012).	Possible	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent or reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area.
<i>Sternula nereis nereis</i>	Australian Fairy Tern	Vulnerable	Sheltered blue-water seas close to land, estuaries (when free of silt) and near-coastal lakes (Johnstone and Storr 1998).	Possible	- PMST suggests that foraging, feeding or related behaviour is likely to occur within 10 km of the Project Area. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Thalassarche carteri</i>	Indian yellow-nosed albatross	Vulnerable (Migratory)	Marine species that inhabits seas of south and west coast of Western Australia and breeds on islands in the south Indian Ocean and in the south Atlantic (Johnstone & Storr 1998).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Thalassarche cauta</i>	Shy Albatross	Endangered (Migratory)	Scarce visitor (late May to mid-October) to southwestern and western seas. Breeds on islands off Tasmania and south New Zealand (Johnstone and Storr 1998).	Unlikely	- PMST suggests that foraging, feeding or related behaviour is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.

Table 2 (continued): Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Birds (continued)					
<i>Thalassarche impavida</i>	Campbell Albatross, Campbell Black-browed Albatross	Vulnerable (Migratory)	Scarce visitor to south-western and western Australian seas. Breeds on Campbell Island (Pizzey & Knight 2012).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Thalassarche melanophris</i>	Black-browed Albatross	Vulnerable (Migratory)	Seas of south and west coasts. Visitor to Western Australian mainland from January to early November (mostly May to September). Breeds on southern subantarctic and Antarctic islands (Johnstone and Storr 1998).	Unlikely	- PMST suggests that foraging, feeding or related behaviour is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Thalassarche steadi</i>	White-capped Albatross	Vulnerable (Migratory)	Scarce visitor (late May to mid-October) to southwestern and western seas. Breeds on islands off Tasmania and south New Zealand (Johnstone and Storr 1998).	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Tringa brevipes</i>	Grey-tailed Tattler	Migratory	Tidal mud and reef flats, sheltered rocky coasts, stony and seaweedy beaches and sandpits, dry coral ridges (Abrolhos) and pebbly shores of near-coastal saltlakes (including saltwork ponds) (Johnstone and Storr 1998).	Possible	- PSMT suggests that roosting is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat, despite the absence of recent and reliable records of the species.
<i>Thalasseus bergii</i>	Crested tern	Migratory	Mainly blue-water seas (especially within 3 km of land), including southern estuaries in summer and autumn (when free of silt); also tidal creeks in north, but not penetrating far into larger estuaries (DCCEE 2023).	Possible	- The PMST search did not identify the species. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area - The species is considered 'Possible' to occur within the Project Area given the occurrence suitable habitat within the Project Area and recent and reliable records of the species.
<i>Tringa glareola</i>	Wood Sandpiper	Migratory	Mainly shallow fresh waters (lagoons, swamps, claypans, river pools, dams, bore overflows and sewage ponds); occasionally brackish swamps, rarely saltlakes and estuaries (Pizzey & Knight 2012).	Possible	- PSMT suggests that roosting is likely to occur within the Project Area. - Numerous recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence suitable habitat within the Project Area and numerous recent and reliable records of the species.
<i>Tringa nebularia</i>	Common Greenshank, Greenshank	Endangered (Migratory)	Mudflats, estuaries, saltmarshes, margins of lakes, wetlands, claypans (fresh and saline), commercial saltfields, sewage ponds (Pizzey & Knight 2012).	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Numerous reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area.
<i>Tringa stagnatilis</i>	Marsh Sandpiper, Little Greenshank	Migratory	Mainly heathlands and coastal and waterside thickets (Johnstone and Storr 1998).	Possible	- PSMT suggests that roosting is likely to occur within the Project Area. - Reliable but not recent records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat within the Project Area.
<i>Tringa totanus</i>	Common Redshank, Redshank	Migratory	Sheltered coastal wetlands such as bays, river estuaries, lagoons, inlets and saltmarsh (with bare open flats and banks of mud or sand). Also found around saltlakes, freshwater lagoons, artificial wetlands and saltworks and sewage farms (Higgins & Davies 1999).	Unlikely	- PSMT suggests that roosting is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area

Table 2 (continued): Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Birds (continued)					
<i>Xenus cinereus</i>	Terek sandpiper	Vulnerable (Migratory)	Tidal mudflats, estuaries; shores and reefs of islands; coastal swamps, commercial saltfields (Pizzey & Knight 2012).	Possible	- The PMST search did not identify the species. - Recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area - The species is considered 'Possible' to occur within the Project Area given the occurrence suitable habitat within the Project Area and recent and reliable records of the species.
<i>Zanda baudinii</i>	Baudin's black cockatoo	Endangered	Mainly eucalypt forests. Attracted to seeding <i>Corymbia calophylla</i> , <i>Banksia</i> spp., <i>Hakea</i> spp., and to fruiting apples and pears (Johnstone and Storr 1998).	Possible	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records of the species exists within 10 km of the Project Area. - Potentially suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat and despite no recent or reliable records within the proximity of the Project Area.
<i>Zanda latirostris</i>	Carnaby's Black Cockatoo	Endangered	Mainly proteaceous scrubs and heaths and adjacent eucalypt woodlands and forests; also plantations of <i>Pinus</i> spp. Attracted to seeding <i>Banksia</i> spp., <i>Hakea</i> spp., <i>Eucalyptus</i> spp., <i>Corymbia calophylla</i> , <i>Grevillea</i> spp., and <i>Allocasuarina</i> spp. (Johnstone and Storr 1998).	Likely	- PMST search suggests breeding is likely to occur within the Project Area. - Recent and reliable records of the species exists within 10 km of the Project Area. - Suitable habitat is present in the Project Area - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat and despite no recent or reliable records within the proximity of the Project Area.
Mammals					
<i>Pseudocheirus occidentalis</i>	Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit	Critically Endangered	On the Swan Coastal Plain in <i>Agonis flexuosa</i> woodlands and <i>Agonis flexuosa</i> / <i>Eucalyptus gomphocephala</i> forests. Also <i>Eucalyptus marginata</i> forests (DBCA 2017).	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Six (6) recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project Area - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat within the Project Area and despite recent and reliable records within the proximity of the Project Area.
<i>Bettongia penicillata ogilbyi</i>	Woylie	Endangered	Woodlands and adjacent heaths with a dense understorey of shrubs, particularly <i>Gastrolobium</i> spp. (TSSC 2018).	Unlikely	- PMST suggest the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'unlikely' to occur within the Project Area given the absence of suitable habitat and recent and reliable records within the proximity of the Project Area.
<i>Dasyurus geoffroii</i>	Chuditch	Vulnerable	Wide range of habitats from woodlands, dry sclerophyll forests, riparian vegetation, beaches and deserts. Appears to utilise native vegetation along roadsides in the wheatbelt (DEC 2012).	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - One (1) recent and reliable record within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - The species is considered 'Possible' to occur within the Project Area given the occurrence of potentially suitable habitat and recent and reliable record within the proximity of the Project Area.
Plants					
<i>Andersonia gracilis</i>	Slender Andersonia	Endangered	Seasonally damp, black sandy clay flats near or on the margins of swamps.	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within the Project Area. - No recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023 , specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.

Table 2 (continued): Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Plants (continued)					
<i>Banksia mimica</i>	Summer Honey-pot	Endangered	Flat to gentle slopes in grey and white sand in open woodlands.	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023, specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.
<i>Caladenia huegelii</i>	King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid	Endangered	Well-drained, deep sandy soils in lush undergrowth in a variety of moisture levels.	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - Recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023, specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.
<i>Diuris drummondii</i>	Tall Donkey Orchid	Vulnerable	In low-lying depressions in peaty and sandy clay swamps.	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - One (1) reliable but not recent record within 10 km of the Project Area. - No suitable habitat is present in the Project area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023, specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.
<i>Diuris micrantha</i>	Dwarf Bee-orchid	Vulnerable	Dark grey-black sandy clay-loam in winter wet depressions or swamps. Often in shallow standing water.	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records within 10 km of the Project Area. - Potentially suitable habitat is present in the Project area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023, specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.
<i>Diuris purdiei</i>	Purdie's Donkey-orchid	Endangered	Sand to sandy clay soils in areas subject to winter inundation.	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023, specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.
<i>Drakaea elastica</i>	Glossy-leaved Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid	Endangered	Bare patches of sand within otherwise dense vegetation in low-lying areas alongside winter-wet swamps. Typically in banksia woodland or thickets of <i>Kunzea glabrescens</i> .	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - One (1) recent and reliable record within 10 km of the Project Area. - Suitable habitat is present in the Project Area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023, specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.
<i>Drakaea micrantha</i>	Dwarf Hammer-orchid	Vulnerable	Open sandy patches often adjacent to winter-wet swamps.	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023, specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.

Table 2 (continued): Threatened flora and fauna species and likelihood of occurrence

Scientific Name	Common Name	EPBC status	Habitat	Likelihood of occurrence	Justification
Plants (continued)					
<i>Morelotia australiensis</i> listed as <i>Tetraria australiensis</i>	Southern Tetraria	Vulnerable	Sand over clay, winter wet depressions and drainage lines.	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023 , specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.
<i>Synaphea</i> sp. Fairbridge Farm (D.Papenfus 696)	Selena's Synaphea	Critically Endangered	Low woodland on grey, clayey sand with lateritic pebbles (Pinjarra Plain) near winter wet flats.	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within the Project Area. - No recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023 , specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.
<i>Synaphea</i> sp. Pinjarra Plain (A.S.George 17182)	--	Endangered	Grey sandy loam or clay, grey-brown clayey sand, brown clayey loam, laterite. Flats, seasonally wet areas, railroad reserves often with wet depressions or drains.	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within 10 km of the Project Area. - No recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023 , specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.
<i>Synaphea</i> sp. Serpentine (G.R.Brand 103)	--	Critically Endangered	Occurs over a narrow geographic range from west of Byford to south of Serpentine with an extent of occurrence of about 60km ² . It grows predominantly on greybrown sandy loams or clay in seasonally wet areas	Unlikely	- PMST suggests the species or suitable habitat for the species may occur within the Project Area. - No recent and reliable records within 10 km of the Project Area. - No suitable habitat is present in the Project Area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023 , specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.
<i>Synaphea stenoloba</i>	Dwellingup Synaphea	Endangered	Sandy or sandy clay soils. Winter-wet flats, granite.	Unlikely	- PMST suggests the species or suitable habitat for the species is likely to occur within 10 km of the Project Area. - One (1) recent and reliable record within 10 km of the Project Area. - Suitable habitat is present in the Project Area. - A Flora and vegetation survey conducted on 12 October and 16 November 2023 , specifically targeted for the identification of this species, but no individuals were located within the Project Area. Therefore, it is considered that the species does not occur.

Table 3: Threatened Ecological Communities and likelihood of occurrence

Community Name	EPBC Status	Habitat/Description	Likelihood of occurrence	Reason
Ecological communities				
Banksia Woodlands of the Swan Coastal Plain ecological community	Endangered	The Conservation Advice (Threatened Species Scientific Committee 2016) states that Banksia Woodland TEC “typically occurs on well drained, low nutrient soil on sandplain landforms, particularly deep Bassendean and Spearwood sands and occasionally on Quindalup sands”, and that the community “is also common on sandy colluvium and aeolian sands of the Ridge Hill Shelf, Whicher Scarp and Dandaragan Plateau; and may also occur in other limited scenarios” (DoEE 2016).	Unlikely	- PMST suggests the ecological community is likely to occur within the Project Area. - No vegetation that meets the description or key diagnostic criteria of this TEC was identified to occur within the Project Area as part of the ecological assessment (Emerge Associates 2024a).
Clay Pans of the Swan Coastal Plain	Critically Endangered	The Clay Pans of the Swan Coastal Plain ecological community occurs in Western Australia where clay soils form an impermeable layer close to the landscape surface, and wetlands form that rely solely on rainfall to fill and then dry to impervious pans in summer. The ecological community generally occurs as a shrubland (less commonly as a low, open woodland) over a ground layer of geophytes, herbs and sedges which are characteristic of the wetter parts of the sites. There are no dominant species which characterise the entire ecological community. The ecological community, however, shows similar landform and vegetation structural features across its range (DSEWPaC 2012).	Unlikely	- PMST suggests the ecological community is likely to occur within 10 km of the Project Area. - No vegetation that meets the description or key diagnostic criteria of this TEC was identified to occur within the Project Area as part of the ecological assessment (Emerge Associates 2024a).
Empodisma peatlands of southwestern Australia	Endangered	Occurs on an organosol within the southwest of western Australia that are typically saturated for at least a month during the year. The Empodisma peatlands of southwestern Australia mainly occur within the Warren IBRA bioregion and Southern Jarrah Forest subregion of the Jarrah Forest IBRA bioregion. Discrete occurrences may also be present in the Perth (SWA02) (Swan Coastal Plain), Northern Jarrah Forest (JAF01) (Jarrah Forest) and Fitzgerald (ESP01) (Esperance) IBRA subregions. Empodisma peatlands has a ground layer containing Emodisma gracillimum, whilst other sedge species are also typically present. Other associated plant species include Acacia hastulata, Callistemon glaucus, Gymnoschoenus anceps, Leptocarpus tenax and Schoenus multiglumis (Department of Climate Change 2023).	Unlikely	- PMST suggests the ecological community may occur within 10 km of the Project Area. - No vegetation that meets the description or key diagnostic criteria of this TEC was identified to occur within the Project Area as part of the ecological assessment (Emerge Associates 2024a).
Honeymyrtle shrubland on limestone In buffer area only ridges of the Swan Coastal Plain Bioregion	Critically Endangered	The Honeymyrtle shrubland is the assemblage of plants, animals and other organisms associated with a type of warm temperate shrubland or heath, dominated by <i>Melaleuca huegelii</i> (chenille honeymyrtle), <i>M. systena</i> (coastal honeymyrtle), and/or <i>Banksia sessilis</i> (parrot bush). It occurs only in southwest Western Australia (WA). It is known from a small number of locations in the Swan Coastal Plain IBRA1 Bioregion (SWA). It is a shrub-dominated ecological community, with sclerophyll shrubs forming thickets or heaths, above a typically diverse ground layer of herbs, including sedges, Restionaceae and occasional grasses. Honeymyrtle shrubland only occurs on the slopes and tops of limestone ridges on the Swan Coastal Plain. Its plants provide food for a variety of nectar, seed- and fruit-eating birds, and browsing for mammals. The associated rocky and sandy substrates provide ample reptile basking sites, and the shrub layer gives them cover (DCCEEW 2023).	Unlikely	- PMST suggests the ecological community may occur within 10 km of the Project Area. - No vegetation that meets the description or key diagnostic criteria of this TEC was identified to occur within the Project Area as part of the ecological assessment (Emerge Associates 2024a).
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	The Conservation Advice (Threatened Species Scientific Committee 2013) states that Subtropical and Temperate Coastal Saltmarsh “consists mainly of salt-tolerant vegetation (halophytes) including: grasses, herbs, sedges, rushes and shrubs. Succulent herbs, shrubs and grasses generally dominate and vegetation is generally of less than 0.5 m height (with the exception of some reeds and sedges) (Adam, 1990; see also Sainty et al., 2012a, b for pictorial field guide). Many species of non-vascular plants are also found in saltmarsh, including epiphytic algae, diatoms and cyanobacterial mats (Adam, 2002; Fotheringham and Coleman, 2008; Green et al., 2012; Millar, 2012)” (TSSC 2013).	Recorded	- PMST suggests the ecological community is likely to occur within the Project Area. - No vegetation that meets the description or key diagnostic criteria of this TEC was identified to occur within the Project Area as part of the ecological assessment (Emerge Associates 2024a).
Tuart (<i>Eucalyptus gomphocephala</i>) Woodlands and Forests of the Swan Coastal Plain ecological community	Critically Endangered	Tuart (<i>Eucalyptus gomphocephala</i>) woodland and forests of the Swan Coastal Plan TEC, listed in July 2019 as a Critically Endangered TEC under the EPBC Act and Priority 3 listed by DBCA. Mostly confined to Quindalup Dunes and Spearwood Dunes from Jurien Bay to the Sabina River, with outliers along some rivers and the Bassendean dunes and Pinjarra Plain. Tuart is the key dominant canopy species however Tuart communities comprise a variety of flora and fauna assemblages. Trees commonly co-occurring with Tuart include <i>Agonis flexuosa</i> (peppermint), <i>Banksia grandis</i> , <i>Banksia attenuata</i> , <i>Eucalyptus marginata</i> ; and less commonly, <i>Corymbia calophylla</i> , <i>Banksia menziesii</i> and <i>Banksia prionotes</i> . An understorey of native plants is typically present, which may include grasses, herbs and shrubs (DoEE 2019).	Unlikely	- PMST suggests the ecological community is likely to occur within the Project Area. - No vegetation that meets the description or key diagnostic criteria of this TEC was identified to occur within the Project Area as part of the ecological assessment (Emerge Associates 2024a).

5. CONCLUSIONS

Information from available databases and recent comprehensive flora and fauna surveys were used to assess the likelihood of occurrence of each identified MNES.

One Threatened Ecological Communities (TECs) identified within the PMST database search was recorded within the Project Area, and none of the remaining five (5) TECs were considered 'likely' or 'possible' to occur within the Project Area.

Of the 43 threatened fauna species identified in the PMST database search, two (2) species were considered 'likely' to occur, namely *Calyptorhynchus banksii naso* (Forest-red tailed black cockatoo) and *Zanda latirostris* (Carnaby's black cockatoo). A further fifteen (15) threatened fauna species were considered 'possible' to occur within the Project Area including:

- *Arenaria interpres* (Ruddy turnstone) – Vulnerable (Migratory)
- *Calidris acuminata* (Sharp-tailed sandpiper) – Vulnerable (Migratory)
- *Calidris canutus* (Red knot) – Endangered (Migratory)
- *Calidris ferruginea* (Curlew Sandpiper) – Critically Endangered (Migratory)
- *Calidris tenuirostris* (Great knot) – Vulnerable (Migratory)
- *Charadrius leschenaultii* (Great sand plover) – Vulnerable (Migratory)
- *Charadrius mongolus* (Lesser sand plover) – Endangered (Migratory)
- *Limosa limosa* (Black-tailed godwit) – Endangered (Migratory)
- *Numenius madagascariensis* (Eastern curlew) – Critically Endangered (Migratory)
- *Pluvialis squatarola* (Grey Plover) - Vulnerable (Migratory)
- *Sternula albifrons* (Little Tern) – Vulnerable (Migratory)
- *Sternula nereis nereis* (Australian fairy tern) - Vulnerable
- *Tringa nebularia* (Common Greenshank, Greenshank) – Endangered (Migratory)
- *Zanda baudinii* (Baudins's black cockatoo) – Endangered
- *Xenus cinereus* (Terek sandpiper)- Vulnerable (Migratory)

Of the 59 Migratory species identified in the PMST search, two (2) species were recorded during surveys, namely *Pandion haliaetus* (Osprey) and *Hydroprogne caspia* (Caspian tern). A further thirty-two (32) species were considered 'possible' to occur based on potential suitable habitat identified within the Project Area:

- *Apus pacificus* (Pacific swift) – Migratory
- *Arenaria interpres* (Ruddy turnstone) – Vulnerable (Migratory)
- *Actis hypoleucos* (Common Sandpiper) – Migratory
- *Calidris alba* (Sanderling) – Migratory
- *Calidris acuminata* (Sharp-tailed sandpiper) –Vulnerable (Migratory)
- *Calidris canutus* (Red knot) – Endangered (Migratory)
- *Calidris falcinellus* (Broad-billed sandpiper) – Migratory
- *Calidris ferruginea* (Curlew Sandpiper) – Critically Endangered (Migratory)
- *Calidris melanotos* (Pectoral sandpiper) – Migratory
- *Calidris ruficollis* (Red-necked stint) – Migratory
- *Calidris subminuta* (Long-toed Stint) – Migratory
- *Calidris tenuirostris* (Great knot) – Vulnerable (Migratory)
- *Charadrius dubius* (Little ringed plover) – Migratory

- *Charadrius leschenaultii* (Great sand plover) – Vulnerable (Migratory)
- *Charadrius mongolus* (Lesser sand plover) – Endangered (Migratory)
- *Chlidonias leucopterus* (White-winged black tern) – Migratory
- *Gelochelidon nilotica* (Gull-billed tern) – Migratory
- *Limosa limosa* (Black-tailed godwit) – Endangered (Migratory)
- *Limosa lapponica* (Bar-tailed Godwit) – Migratory
- *Numenius madagascariensis* (Eastern curlew) – Critically Endangered (Migratory)
- *Numenius phaeopus* (Whimbrel) – Migratory
- *Plegadis falcinellus* (Glossy Ibis) – Migratory
- *Pluvialis fulva* (Pacific Golden Plover) – Migratory
- *Pluvialis squatarola* (Grey Plover) – Vulnerable (Migratory)
- *Sternula albifrons* (Little Tern) – Vulnerable (Migratory)
- *Sterna hirundo* (Common tern) – Migratory
- *Tringa brevipes* (Grey-tailed Tattler) – Migratory
- *Tringa nebularia* (Common Greenshank, Greenshank) - Endangered (Migratory)
- *Tringa stagnatilis* (Marsh Sandpiper, Little Greenshank) – Migratory
- *Tringa glareola* (Wood Sandpiper) – Migratory
- *Thalasseus bergii* (Crested tern) – Migratory
- *Xenus cinereus* (Terek sandpiper) – Vulnerable (Migratory)

Thirteen (13) of the 27 threatened migratory species identified within the PMST database search were considered ‘possible’ to occur within the Project Area:

- *Arenaria interpres* (Ruddy turnstone) – Vulnerable (Migratory)
- *Calidris acuminata* (Sharp-tailed sandpiper) – Vulnerable (Migratory)
- *Calidris canutus* (Red knot) – Endangered (Migratory)
- *Calidris ferruginea* (Curlew Sandpiper) – Critically endangered (Migratory)
- *Calidris tenuirostris* (Great Knot) – Vulnerable (Migratory)
- *Charadrius leschenaultii* (Great sand plover) – Vulnerable (Migratory)
- *Charadrius mongolus* (Lesser sand plover) – Endangered (Migratory)
- *Limosa limosa* (Black-tailed godwit) – Endangered (Migratory)
- *Numenius madagascariensis* (Eastern curlew) – Critically Endangered (Migratory)
- *Pluvialis squatarola* (Grey Plover) – Vulnerable (Migratory)
- *Sternula albifrons* (Little Tern) – Vulnerable (Migratory)
- *Tringa nebularia* (Common Greenshank, Greenshank) – Endangered (Migratory)
- *Xenus cinereus* (Terek sandpiper) – Vulnerable (Migratory)

The remainder of the conservation significant fauna species identified in the PMST were considered ‘Unlikely’ to occur in the Project Area due to a lack of suitable habitat or absence of recent and reliable records of the species.

The remainder of the threatened flora species identified in the PMST search were considered ‘Unlikely’ to occur in the Project Area either due to the lack of suitable habitat and/or recent and reliable records within 10 km of the Project Area and/or because they were not recorded during extensive targeted searches.

6. References

The references listed below have been considered as part of preparing this document.

Department of Climate Change, Energy, the Environment and Water (DCCEEW) 2017, *EPBC Act Policy Statement 3.21—Industry guidelines for avoiding, assessing and mitigating impacts on EPBC Act listed migratory shorebird species*, Commonwealth of Australia.

Department of Climate Change, Energy, the Environment and Water (DCCEEW) 2023, *Approved Conservation Advice for Honeymyrtle shrubland on limestone ridges of the Swan Coastal Plain Bioregion*, Canberra.

Department of Climate Change, Energy the Environment and Water, 2023, *Approved Conservation Advice for the Empodisma peatlands of southwestern Australia*, Canberra.

Department of Environment and Energy (DoEE) 2016, *Approved Conservation Advice (incorporating listing advice) for the Banksia Woodlands of the Swan Coastal Plain ecological community*, Canberra.

Department of Environment and Energy (DoEE) 2019, *Approved Conservation Advice (incorporating listing advice) for the Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain ecological community*, Canberra.

Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC) 2012, *Approved Conservation Advice for Clay Pans of the Swan Coastal Plain*, Canberra.

Emerge Associates 2024a, *Basic Fauna and Targeted Black Cockatoo Assessment 28 Placid Waters Parade, Coodanup*, EP23-081(03)--004 AJU, Version 1.

Emerge Associates 2024b, *Detailed Flora and Vegetation Assessment - 28 Placid Waters Parade, Coodanup* EP23-081(02)--008, Version 1

Emerge Associates 2026, *Shorebird Survey - Placid Waters South Planning Support* EP25-135(11)--013 KSB, Version 1.

Johnstone, R. E. and Storr, G. M. 1998, *Handbook of Western Australian Birds. Volume 1 - Non-Passerines (Emu to Dollarbird)*, Western Australian Museum, Perth.

Pizzey, G. and Knight, F. 2012, *The Fieldguide to the Birds of Australia*, Harper Collins Publishers, Sydney, Australia.

Threatened Species Scientific Committee (TSSC) 2013, *Environment Protection And Biodiversity Conservation Act 1999 (EPBC Act) (S266b) Conservation Advice For Subtropical And Temperate Coastal Saltmarsh*, Department of Sustainability, Environment, Water, Population and Communities, Canberra.

Attachment A: 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: 05-Jun-2026

[Summary](#)

[Details](#)

[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

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](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	2
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	6
Listed Threatened Species:	70
Listed Migratory Species:	69

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.

Commonwealth Lands:	3
Commonwealth Heritage Places:	None
Listed Marine Species:	95
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	16
Regional Forest Agreements:	None
Nationally Important Wetlands:	None
EPBC Act Referrals:	40
Key Ecological Features (Marine):	None
Biologically Important Areas:	10
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Wetlands of International Importance (Ramsar Wetlands)		[Resource Information]
Ramsar Site Name	Proximity	Buffer Status
Becher point wetlands	Within 10km of Ramsar site	In buffer area only
Peel-yalgorup system	Within Ramsar site	In feature area

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. Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.	

Community Name	Threatened Category	Presence Text	Buffer Status
Banksia Woodlands of the Swan Coastal Plain ecological community	Endangered	Community likely to occur within area	In feature area
Clay Pans of the Swan Coastal Plain	Critically Endangered	Community likely to occur within area	In buffer area only
Empodisma peatlands of southwestern Australia	Endangered	Community may occur within area	In buffer area only
Honeymyrtle shrubland on limestone ridges of the Swan Coastal Plain Bioregion	Critically Endangered	Community may occur within area	In buffer area only
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area	In feature area
Tuart (Eucalyptus gomphocephala) Woodlands and Forests of the Swan Coastal Plain ecological community	Critically Endangered	Community likely to occur within area	In feature area

Listed Threatened Species			[<u>Resource Information</u>]
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
BIRD			
Anous tenuirostris melanops			
Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Ardenna grisea Sooty Shearwater [82651]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Roosting likely to occur within area	In feature area
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat may occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Calidris tenuirostris Great Knot [862]	Vulnerable	Roosting likely to occur within area	In feature area
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting likely to occur within area	In feature area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea dabbenena Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In feature area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In feature area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Endangered	Species or species habitat likely to occur within area	In feature area
Limosa limosa Black-tailed Godwit [845]	Endangered	Roosting likely to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Phaethon rubricauda westralis Red-tailed Tropicbird (Indian Ocean), Indian Ocean Red-tailed Tropicbird [91824]	Endangered	Species or species habitat may occur within area	In feature area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area	In feature area
Sternula albifrons Little Tern [82849]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area	In feature area
Zanda baudinii listed as Calyptorhynchus baudinii Baudin's Cockatoo, Baudin's Black-Cockatoo, Long-billed Black-cockatoo [87736]	Endangered	Species or species habitat likely to occur within area	In feature area
Zanda latirostris listed as Calyptorhynchus latirostris Carnaby's Black Cockatoo, Short-billed Black-cockatoo [87737]	Endangered	Breeding likely to occur within area	In feature area
MAMMAL			
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Bettongia penicillata ogilbyi Woylie [66844]	Endangered	Species or species habitat may occur within area	In buffer area only
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding likely to occur within area	In buffer area only
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat may occur within area	In feature area
Pseudocheirus occidentalis Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
OTHER			
Westralunio carteri Carter's Freshwater Mussel, Ambiguous Mussel [86266]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
PLANT			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat may occur within area	In feature area
Banksia mimica Summer Honeypot [82765]	Endangered	Species or species habitat may occur within area	In buffer area only
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat likely to occur within area	In feature area
Diuris drummondii Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diuris purdiei Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area	In feature area
Drakaea elastica Glossy-leaved Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area	In feature area
Drakaea micrantha Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Morelotia australiensis listed as Tetraria australiensis Southern Tetraria [92784]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Synaphea sp. Fairbridge Farm (D.Papenfus 696) Selena's Synaphea [82881]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Synaphea sp. Pinjarra Plain (A.S.George 17182) [86878]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Synaphea sp. Serpentine (G.R.Brand 103) [86879]	Critically Endangered	Species or species habitat may occur within area	In feature area
Synaphea stenoloba Dwellingup Synaphea [66311]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Thelymitra variegata Queen of Sheba [12582]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
REPTILE			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area	In feature area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding likely to occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In feature area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding likely to occur within area	In feature area
SHARK			
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Galeorhinus galeus Tope, Flake, Oil Shark, School Shark [68453]	Conservation Dependent	Species or species habitat may occur within area	In buffer area only
Pristis pristis Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Endangered	Species or species habitat may occur within area	In feature area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In feature area
Listed Migratory Species		[Resource Information]	
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area	In feature area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Ardenna grisea Sooty Shearwater [82651]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea dabbenena Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In feature area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hydroprogne caspia Caspian Tern [808]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Onychoprion anaethetus Bridled Tern [82845]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Phaethon rubricauda Red-tailed Tropicbird [994]		Species or species habitat may occur within area	In feature area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Sternula albifrons Little Tern [82849]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In feature area
Migratory Marine Species			
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In feature area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area	In feature area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In buffer area only
Carcharias taurus Grey Nurse Shark [64469]		Species or species habitat likely to occur within area	In buffer area only
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area	In feature area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In feature area
Eubalaena australis as Balaena glacialis australis Southern Right Whale [40]	Endangered	Breeding likely to occur within area	In buffer area only
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area	In feature area
Megaptera novaeangliae Humpback Whale [38]		Species or species habitat known to occur within area	In feature area
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area	In feature area
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat may occur within area	In feature area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding likely to occur within area	In feature area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Pristis pristis Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Endangered	Species or species habitat may occur within area	In feature area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Migratory Terrestrial Species			
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area	In feature area
Migratory Wetlands Species			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat likely to occur within area	In feature area
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Roosting likely to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Calidris alba Sanderling [875]		Roosting likely to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Calidris falcinellus as Limicola falcinellus Broad-billed Sandpiper [91731]		Roosting likely to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area	In feature area
Calidris pugnax as Philomachus pugnax Ruff [91256]		Roosting likely to occur within area	In feature area
Calidris ruficollis Red-necked Stint [860]		Roosting likely to occur within area	In feature area
Calidris subminuta Long-toed Stint [861]		Roosting likely to occur within area	In feature area
Calidris tenuirostris Great Knot [862]	Vulnerable	Roosting likely to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting likely to occur within area	In feature area
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area	In feature area
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area	In feature area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat likely to occur within area	In feature area
Limosa limosa Black-tailed Godwit [845]	Endangered	Roosting likely to occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area	In feature area
Numenius phaeopus Whimbrel [849]		Roosting likely to occur within area	In feature area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area	In feature area
Pluvialis fulva Pacific Golden Plover [25545]		Roosting likely to occur within area	In feature area
Tringa brevipes Grey-tailed Tattler [851]		Roosting likely to occur within area	In feature area
Tringa glareola Wood Sandpiper [829]		Roosting likely to occur within area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting likely to occur within area	In feature area
Tringa totanus Common Redshank, Redshank [835]		Roosting likely to occur within area	In feature area

Other Matters Protected by the EPBC Act

Commonwealth Lands

[[Resource Information](#)]

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

Commonwealth Land Name	State	Buffer Status
Australian Postal Corporation Lot 10 D017395 [AGPR7218]	WA	In buffer area only
Lot 51 D092398 [AGPR7204]	WA	In buffer area only
Department of Defence AAFC 707 Squadron - Mandurah [DD_3378]	WA	In buffer area only

Listed Marine Species

[[Resource Information](#)]

Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat likely to occur within area	In feature area
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area	In feature area
Anous tenuirostris melanops Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Ardenna carneipes as Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Ardenna grisea as Puffinus griseus Sooty Shearwater [82651]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Roosting likely to occur within area	In feature area
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Calidris alba Sanderling [875]		Roosting likely to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat likely to occur within area overfly marine area	In feature area
Calidris falcinellus as Limicola falcinellus Broad-billed Sandpiper [91731]		Roosting likely to occur within area overfly marine area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area overfly marine area	In feature area
Calidris pugnax as Philomachus pugnax Ruff [91256]		Roosting likely to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris ruficollis Red-necked Stint [860]	Vulnerable	Roosting likely to occur within area overfly marine area	In feature area
Calidris subminuta Long-toed Stint [861]		Roosting likely to occur within area overfly marine area	In feature area
Calidris tenuirostris Great Knot [862]		Roosting likely to occur within area overfly marine area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting likely to occur within area	In feature area
Charadrius ruficapillus Red-capped Plover [881]	Endangered	Roosting likely to occur within area overfly marine area	In feature area
Diomedea amsterdamensis Amsterdam Albatross [64405]		Species or species habitat may occur within area	In feature area
Diomedea dabbenena Tristan Albatross [66471]		Species or species habitat may occur within area	In feature area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In feature area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Gallinago megala Swinhoe's Snipe [864]	Vulnerable	Roosting likely to occur within area overfly marine area	In feature area
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area overfly marine area	In feature area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area	In feature area
Halobaena caerulea Blue Petrel [1059]		Species or species habitat may occur within area	In buffer area only
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Roosting likely to occur within area overfly marine area	In feature area
Hydroprogne caspia as Sterna caspia Caspian Tern [808]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat likely to occur within area	In feature area
Limosa limosa Black-tailed Godwit [845]		Roosting likely to occur within area overfly marine area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]		Species or species habitat may occur within area	In feature area
Macronectes halli Northern Giant Petrel [1061]		Foraging, feeding or related behaviour likely to occur within area	In feature area
Merops ornatus Rainbow Bee-eater [670]	Vulnerable	Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Motacilla cinerea Grey Wagtail [642]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]		Species or species habitat likely to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area overfly marine area	In feature area
Numenius phaeopus Whimbrel [849]		Roosting likely to occur within area	In feature area
Onychoprion anaethetus as Sterna anaethetus Bridled Tern [82845]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area	In feature area
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area	In feature area
Phaethon rubricauda Red-tailed Tropicbird [994]		Species or species habitat may occur within area	In feature area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Roosting likely to occur within area	In feature area
Pterodroma mollis Soft-plumaged Petrel [1036]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Puffinus assimilis Little Shearwater [59363]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Recurvirostra novaehollandiae Red-necked Avocet [871]		Roosting likely to occur within area overfly marine area	In feature area
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Stercorarius antarcticus as Catharacta skua Brown Skua [85039]		Species or species habitat may occur within area	In buffer area only
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Sternula albifrons as Sterna albifrons Little Tern [82849]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In feature area
Thinornis cucullatus as Thinornis rubricollis Hooded Plover, Hooded Dotterel [87735]		Species or species habitat likely to occur within area overfly marine area	In feature area
Tringa brevipes as Heteroscelus brevipes Grey-tailed Tattler [851]		Roosting likely to occur within area	In feature area
Tringa glareola Wood Sandpiper [829]		Roosting likely to occur within area overfly marine area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area overfly marine area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting likely to occur within area overfly marine area	In feature area
Tringa totanus Common Redshank, Redshank [835]		Roosting likely to occur within area overfly marine area	In feature area
Fish			
Campichthys galei Gale's Pipefish [66191]		Species or species habitat may occur within area	In buffer area only
Heraldia nocturna Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within area	In buffer area only
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area	In buffer area only
Hippocampus breviceps Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hippocampus subelongatus West Australian Seahorse [66722]		Species or species habitat may occur within area	In buffer area only
Histiogamphelus cristatus Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]		Species or species habitat may occur within area	In buffer area only
Idiotropiscis australe as Acentronura australe Southern Pygmy Pipehorse [74958]		Species or species habitat may occur within area	In buffer area only
Lissocampus caudalis Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area	In buffer area only
Lissocampus fatiloquus Prophet's Pipefish [66250]		Species or species habitat may occur within area	In buffer area only
Lissocampus runa Javelin Pipefish [66251]		Species or species habitat may occur within area	In buffer area only
Maroubra perserrata Sawtooth Pipefish [66252]		Species or species habitat may occur within area	In buffer area only
Mitotichthys meraculus Western Crested Pipefish [66259]		Species or species habitat may occur within area	In buffer area only
Nannocampus subosseus Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat may occur within area	In buffer area only
Phycodurus eques Leafy Seadragon [66267]		Species or species habitat may occur within area	In buffer area only
Phyllopteryx taeniolatus Common Seadragon, Weedy Seadragon [66268]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pugnaso curtirostris Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area	In buffer area only
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area	In buffer area only
Stigmatopora argus Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area	In buffer area only
Stigmatopora nigra Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area	In buffer area only
Urocampus carinirostris Hairy Pipefish [66282]		Species or species habitat may occur within area	In buffer area only
Vanacampus margaritifer Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area	In buffer area only
Vanacampus phillipi Port Phillip Pipefish [66284]		Species or species habitat may occur within area	In buffer area only
Vanacampus poecilolaemus Longsnout Pipefish, Australian Long-snout Pipefish, Long-snouted Pipefish [66285]		Species or species habitat may occur within area	In buffer area only
Mammal			
Arctocephalus forsteri Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within area	In buffer area only
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat may occur within area	In feature area
Reptile			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding likely to occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In feature area
Hydrophis kingii as Disteira kingii Spectacled Sea Snake [93511]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding likely to occur within area	In feature area
Whales and Other Cetaceans [Resource Information]			
Current Scientific Name	Status	Type of Presence	Buffer Status
Mammal			
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area	In buffer area only
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In feature area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area	In feature area
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In buffer area only
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding likely to occur within area	In buffer area only
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In buffer area only

Current Scientific Name	Status	Type of Presence	Buffer Status
Megaptera novaeangliae Humpback Whale [38]		Species or species habitat known to occur within area	In feature area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In buffer area only
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In buffer area only
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In buffer area only

Extra Information

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Austin Bay	Nature Reserve	WA	In buffer area only
Boodalan	Nature Reserve	WA	In buffer area only
Creery Island	Nature Reserve	WA	In buffer area only
Goegrup Lake	Nature Reserve	WA	In buffer area only
Len Howard	Conservation Park	WA	In buffer area only
NTWA Bushland covenant (0014)	Conservation Covenant	WA	In buffer area only
Unnamed WA13359	Nature Reserve	WA	In buffer area only
Unnamed WA35283	Nature Reserve	WA	In buffer area only
Unnamed WA38749	Conservation Park	WA	In buffer area only
Unnamed WA41102	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA44986	Nature Reserve	WA	In buffer area only
Unnamed WA45089	Nature Reserve	WA	In buffer area only

Protected Area Name	Reserve Type	State	Buffer Status
Unnamed WA46661	Nature Reserve	WA	In buffer area only
Unnamed WA50750	Nature Reserve	WA	In buffer area only
Unnamed WA51945	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA51946	5(1)(h) Reserve	WA	In buffer area only

EPBC Act Referrals [Resource Information]				
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Marina Quay Residential Development	2023/09673		Completed	In buffer area only
Marine Route Survey for Subsea Fibre Optic Data Cable System - Australia West	2024/09826		Completed	In buffer area only
Peel Health Campus Expansion	2024/10053		Completed	In buffer area only

Controlled action				
'Lakelands East' residential development, Mandurah, WA	2013/7048	Controlled Action	Post-Approval	In buffer area only
Austin Cove Estate Phase II Residential Development	2007/3885	Controlled Action	Post-Approval	In buffer area only
Construction of New Perth Bunbury Highway project	2005/2193	Controlled Action	Post-Approval	In feature area
Halls Head Shopping Centre stages 2 & 3 expansion	2010/5636	Controlled Action	Post-Approval	In buffer area only
Lot 505 Hungerford Avenue, Halls Head, WA Residential Development	2009/4789	Controlled Action	Post-Approval	In buffer area only
Mandurah Junction Commercial and Residential Development	2010/5410	Controlled Action	Completed	In buffer area only
Mixed Use Residential and Commercial Development	2009/4919	Controlled Action	Post-Approval	In buffer area only
Parklands West Estate Development	2010/5693	Controlled Action	Post-Approval	In buffer area only
Point Grey Marina Project	2010/5515	Controlled Action	Post-Approval	In buffer area only
Point Grey Residential Development - Terrestrial Component	2011/5825	Controlled Action	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Proposed Urban Development	2008/3984	Controlled Action	Post-Approval	In buffer area only
Residential development of Lot 105 Stock Road, Lakelands, WA	2017/8041	Controlled Action	Post-Approval	In buffer area only
Urban Development Ravendale Drive, Coodanup Drive & Wanjeep Street	2011/5928	Controlled Action	Post-Approval	In buffer area only
Not controlled action				
Bushfire Mitigation Works - City of Mandurah	2020/8674	Not Controlled Action	Completed	In buffer area only
Clearing of Lot in Preparation for Development for Industrial Purposes	2008/4332	Not Controlled Action	Completed	In buffer area only
Construction of Secret Harbour High School	2004/1489	Not Controlled Action	Completed	In buffer area only
Demolish and replace Old Mandurah Traffic Bridge, Mandurah, WA	2015/7415	Not Controlled Action	Completed	In buffer area only
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
INDIGO Central Submarine Telecommunications Cable	2017/8127	Not Controlled Action	Completed	In feature area
Lot 101 Mandurah Road, Madora Bay, WA	2012/6466	Not Controlled Action	Completed	In buffer area only
Mandurah Quay Residential Development	2010/5754	Not Controlled Action	Completed	In buffer area only
Point Grey Entrance Road	2011/5807	Not Controlled Action	Completed	In buffer area only
Residential development, Lot 179 and part Lot 180 Riverside Dr, and Lot 198 Ronlyn Rd, Furnissdale,	2016/7799	Not Controlled Action	Completed	In buffer area only
Residential Subdivision, Lot 90 Leisure Way, Halls Head, WA	2018/8175	Not Controlled Action	Completed	In buffer area only
Re-zoning of Land for Future Residential Development Purposes	2009/4908	Not Controlled Action	Completed	In buffer area only
urban residential development	2006/2924	Not Controlled Action	Completed	In feature area
Not controlled action (particular manner)				
Construction of Mandurah Entrance Road	2009/4692	Not Controlled Action (Particular	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action (particular manner)				
		Manner)		
Coodanup residential development	2006/3073	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Dredging of the Yunderup Approach Channel	2007/3415	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
INDIGO Marine Cable Route Survey (INDIGO)	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
Maintenance Channel Dredging	2010/5528	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Multipurpose development stage 1 within 340ha	2004/1913	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
South West Metropolitan Railway Project	2003/1175	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
Referral decision				
Lakelands Station	2020/8718	Referral Decision	Completed	In buffer area only
Lots 1-5 Bluerise Cove & Lots 801 & 124 Pleasant Grove Rezoning and Subdivision	2008/4295	Referral Decision	Completed	In buffer area only
Nirimba Rural Residential Development	2020/8690	Referral Decision	Completed	In buffer area only
Residential Subdivision Lot 801 Pleasant Grove Circle, Falcon, WA	2012/6507	Referral Decision	Referral Publication	In buffer area only
Biologically Important Areas			[Resource Information]	
Scientific Name		Behaviour	Presence	Buffer Status
Seabirds				
Ardenna pacifica				
Wedge-tailed Shearwater [84292]		Foraging (in high numbers)	Known to occur	In buffer area only

Scientific Name	Behaviour	Presence	Buffer Status
Eudyptula minor Little Penguin [1085]	Foraging (provisioning young)	Known to occur	In buffer area only
Hydroprogne caspia Caspian Tern [808]	Foraging (provisioning young)	Known to occur	In buffer area only
Onychoprion anaethetus Bridled Tern [82845]	Foraging (in high numbers)	Known to occur	In buffer area only
Puffinus assimilis tunneyi Little Shearwater [59363]	Foraging (in high numbers)	Known to occur	In buffer area only
Sterna dougallii Roseate Tern [817]	Foraging	Known to occur	In buffer area only
Sternula nereis Fairy Tern [82949]	Foraging (in high numbers)	Known to occur	In buffer area only
Whales			
Balaenoptera musculus brevicauda Pygmy Blue Whale [81317]	Migration	Known to occur	In buffer area only
Eubalaena australis Southern Right Whale [40]	Migration		In buffer area only
Megaptera novaeangliae Humpback Whale [38]	Migration (north and south)	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 is 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 on the contents of this report.

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 point locations and environmental data layers.

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 when time permits.

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 breeding sites; and
- 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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