

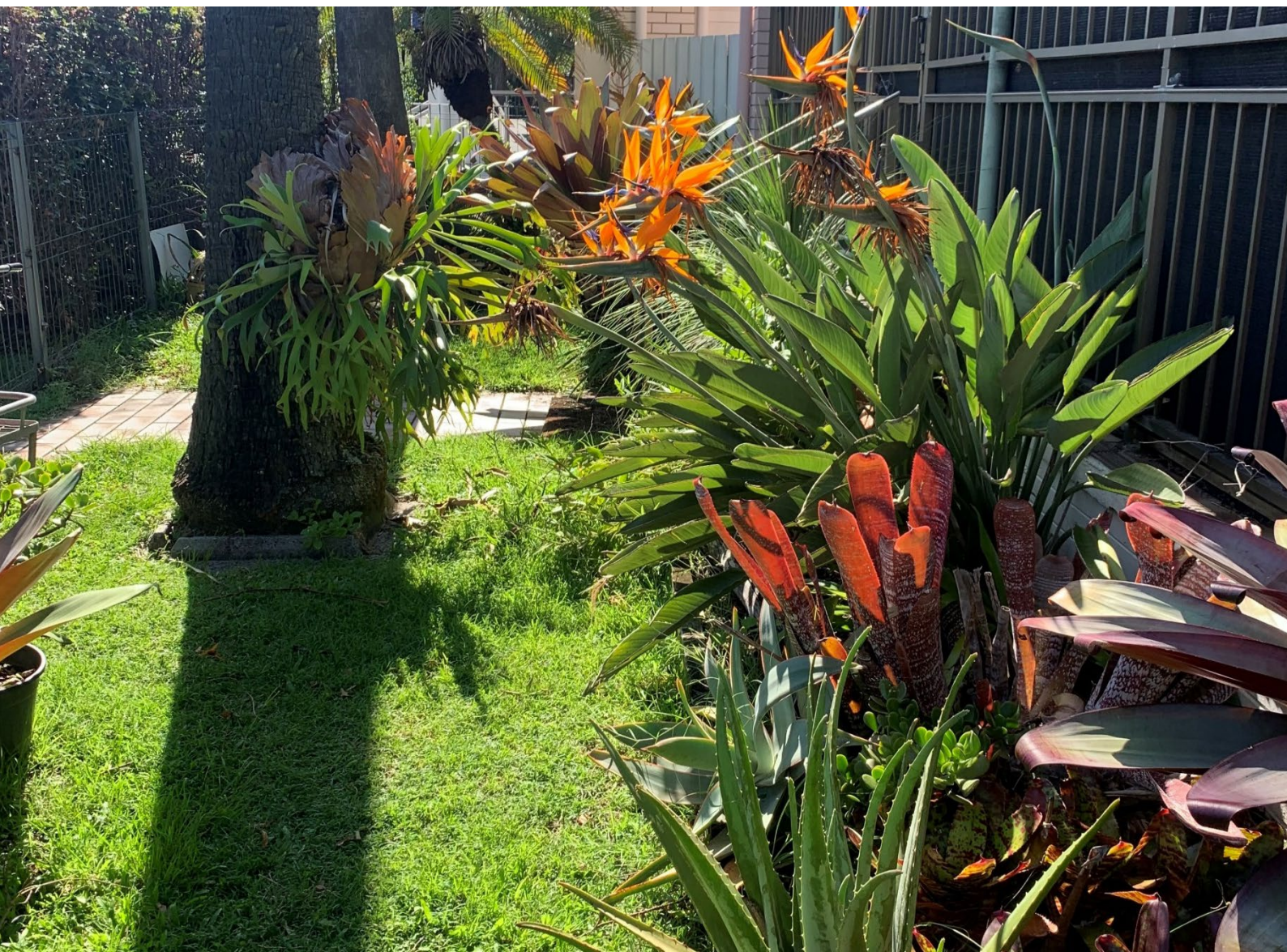
12-14 Florence St, Tweed Heads

Biodiversity Development Assessment Report
Waiver Application

Client : THE TRUSTEE ATF WAFI PROPERTY TRUST
Prepared by : Australian Wetlands Consulting Pty Ltd
Project # : 242060
Date : March 2025

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12-14 Florence St, Tweed Heads

Biodiversity Development Assessment Report Waiver
Application

Project control

Project name: 12-14 Florence St, Tweed Heads
Biodiversity Development Assessment Report Waiver
Application

Job number: 242060

Client: THE TRUSTEE ATF WAFI PROPERTY TRUST

Contact: steve@dreambuild.com.au

Prepared by: Australian Wetlands Consulting Pty Ltd

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1 Introduction and Background

Australian Wetlands Consulting (AWC) has prepared this Biodiversity Development Assessment Report (BDAR) Waiver for Dream Builds to support the proposed state significant development application (SSDA) for the residential development of 12-14 Florence St, Tweed Heads.

1.1 Proponent

Table 1-1 Proponent details

	Proponent Details
Name	Stafano Macri
Position	Owners Representative
Company	THE TRUSTEE ATF WAFI PROPERTY TRUST
Address	6/37A King Road, Hornsby NSW 2077
Telephone	(02) 9482 3511
Fax	(02) 9482 3544
Mobile	0418 643 614
Email	steve@dreambuild.com.au

1.2 Subject Site

The subject site is located at 12-14 Florence St, Tweed Head within the Tweed Shire Council LGA (hereafter referred to as the 'site'). The site currently consists of two existing residential buildings, with associated garden landscaping including 32 trees. Vegetation present is of typical urban garden landscape and does not conform to any Plant Community Type (PCT). The subject site is presented in terms of its general area in Figure 1.1.

Planning details for the site as determined by NSW Planning Portal Spatial Viewer (DCS 2020) are detailed in Table 1.2 and displayed in Figure 1.2.

Table 1-2 NSW Planning Portal details

Site Detail	NSW Planning Portal Detail
Lot and DP	Lot 1, DP 781624 Lot 1, DP419177
Property size (ha)	0.096
Zoning	R3 Medium Density Residential
LGA	Tweed Shire Council
Bushfire Vegetation Category	NA

1.3 Proposed Development

The proposed development consists of the following works:

- Demolition of existing structures and removal of approximately 500 m² mixed urban garden comprised of planted native and exotic garden vegetation, including the removal of 32 trees of planted native and exotic origin.
- Construction of a medium-density residential building and associated landscaping with locally endemic native species

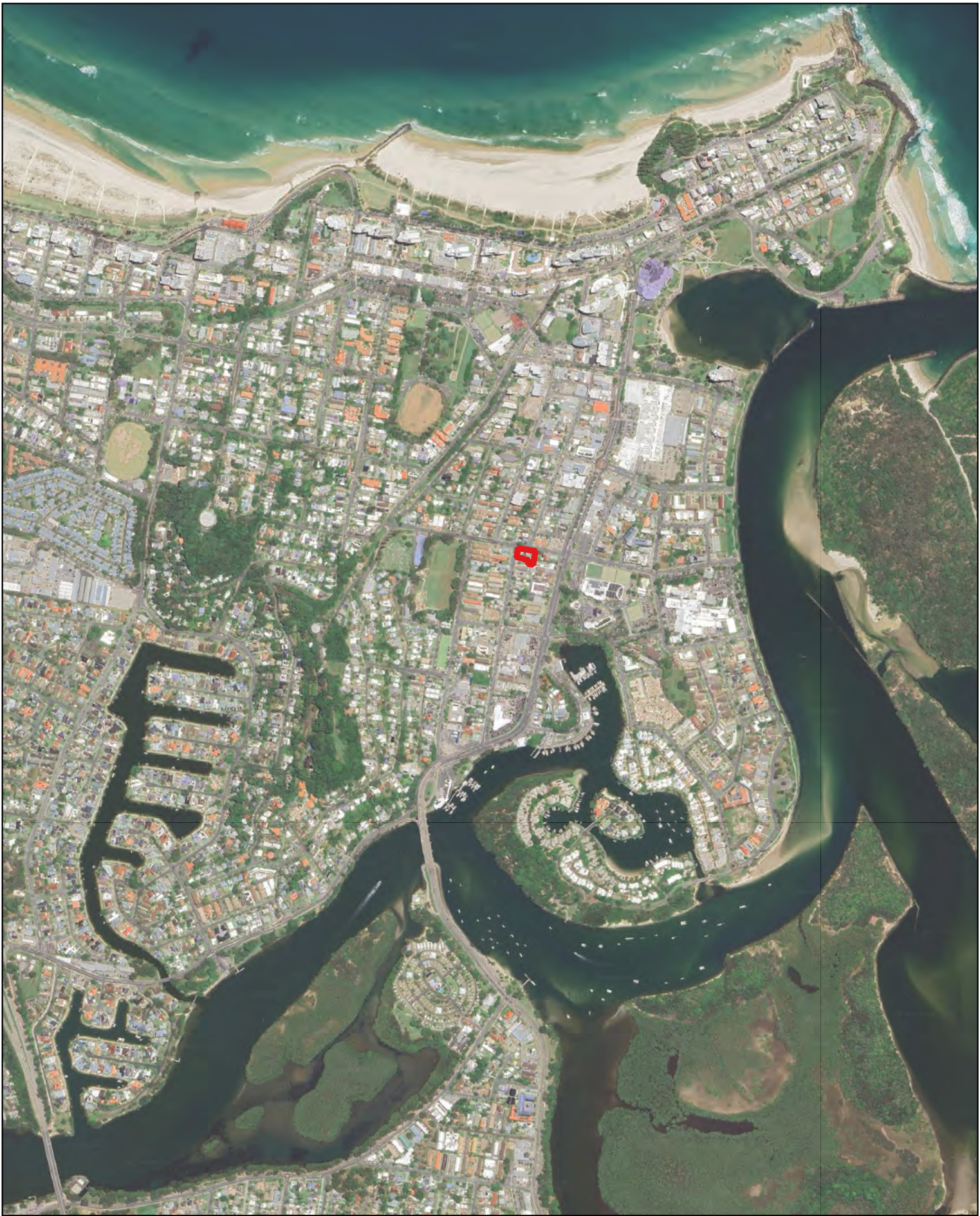
The proposed development and associated development activities will be hereafter referred to as 'the proposal'. The current proposal designs and extents are outlined in Appendix A.

1.4 Consultant Ecologist

Two qualified professional ecologists from AWC were involved in the assessment and preparation of this BDAR Waiver, with details in below table.

Table 1-3 AWC project staff and experience

Ecologist	Qualifications
Shey Smith	<ul style="list-style-type: none">• 5 years professional experience in Ecology• Bachelor of Science, Majors: Earth and Environmental Systems, Southern Cross University
Dr James Macnamara	<ul style="list-style-type: none">• 12 years professional experience in Environmental Science/Ecology• Bachelor of Environmental Management and Science – UWS 2011• Bachelor of Science (Honours) – WSU 2012• PhD in Environmental Biotechnology – WSU 2023



Legend
 Subject Site

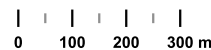
Figure:
 1.1 Regional Context

Project:
 12-14 Florence St,
 Tweed Heads

Scale:
 1:14,000 @ A4
 GDA2020 MGA56



Data sources
 Spatial data: © NSW Govt 2024
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Legend
 Subject Site

Figure:
 1.2 Subject Site

Project:
 12-14 Florence St,
 Tweed Heads

Scale:
 1:400 @ A4
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Data sources
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2 Statutory Context

2.1 Commonwealth Legislation

The *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) protects/ regulates matters of national environmental significance (MNES), including:

- World heritage properties
- National heritage places
- Wetlands of international importance
- Nationally threatened species and ecological communities
- Migratory species
- Commonwealth marine areas
- The Great Barrier Reef Marine Park
- Nuclear actions (including uranium mining)
- A water resource, in relation to coal seam gas development and large coal mining development.

Under the EPBC Act a referral is required to the Minister for the Environment and Water for proposed 'actions that have the potential to significantly impact on matters of national environmental significance [MNES] or the environment of Commonwealth land'. A database search encompassing a 5 km radius search area from the Activity has been completed to identify MNES and other matters (Appendix B).

Assessment of the proposal with regard to MNES and other matters indicates there is unlikely to be a significant impact on relevant MNES. Accordingly, the proposal does not require referral to the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) (refer Table 2.1).

Table 2-1 MNES listed under the EPBC Act

MNES	Impact
<i>Any impact on a World Heritage property?</i>	
No World Heritage properties occur within five kilometers of the site.	Nil
<i>Any impact on National heritage places?</i>	
No National Heritage places occur within five kilometres of the site.	Nil
<i>Any impact on wetlands of international importance?</i>	
No wetlands of international importance occur within five kilometres of the site.	Nil
<i>Any impact on nationally threatened species and ecological communities?</i>	
Habitat for 6 threatened ecological communities (TEC), 113 threatened species and 78 migratory species were identified within 5 km of the site. No TECs, threatened flora or migratory species were identified during the site assessment.	The site is a small residential lot, with limited connectivity to any identified vegetation communities. Development of property would have no impact to any threatened species or TECs.

2.2 NSW Legislation

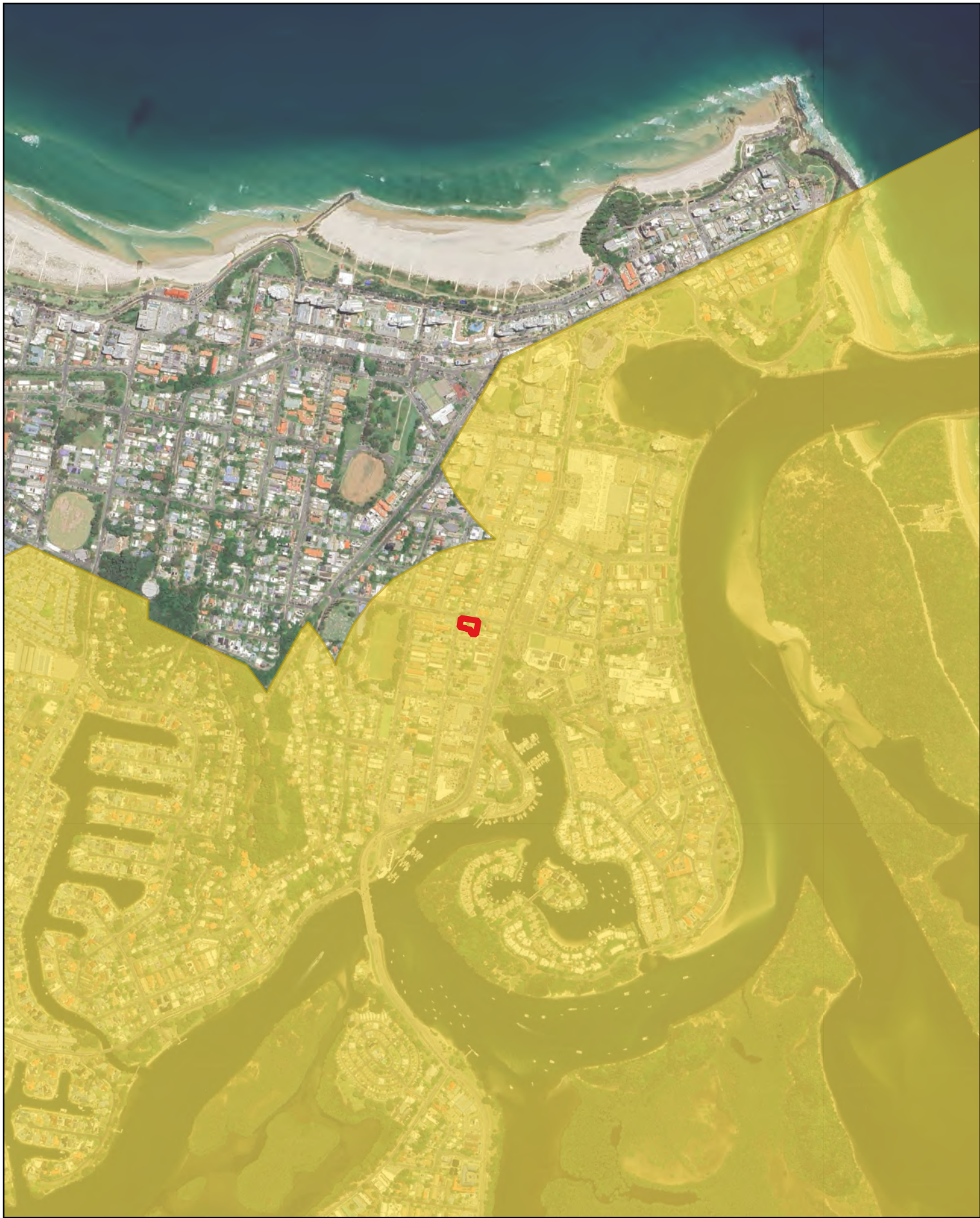
The NSW legislation relevant to the proposed development is outlined in Table 2.2.

Table 2-2 NSW State legislation sections relative to the proposed development

Legislation	Section/s	Proponent's Obligations
<i>Biosecurity Act 2015 & Biosecurity Regulation 2017</i>	Part 3 Schedule 3	The Biosecurity Act provides a framework for the prevention, elimination and minimisation of biosecurity risks. No Schedule 3 weed species were identified on site. Landowner and Developers have a general biosecurity duty to prevent spread of weeds onto and from site during construction and operation.
<i>Biodiversity Conservation Act 2016 (BC Act)</i>	Part 7.3 Schedules 1, 2 and 3	The proposal would not significantly impact on any threatened flora and fauna species or ecological communities listed in the BC Act
<i>Coastal Management Act 2016</i>	Part 2	The proposal will occur within the coastal environment area as identified by the State Environmental Planning Policy (SEPP) Resilience and Hazards 2021.
<i>Environmental Planning and Assessment Act 1979 (EP&A Act)</i>	Part 5	<p>The proposal requires development assessment and approval pursuant to Section 5 of the EP&A Act whereby determining authorities, when assessing activities under Part 5, must examine and take into account to the fullest extent possible all matters affecting or likely to affect the environment by reason of that activity.</p> <p>To ensure the Activity adequately addresses the requirements of Part 5, an assessment of relevant Environmental Planning Instruments including State Environmental Planning Policies (SEPPs) and Local Environmental Plans (LEPs) has been completed.</p>

Table 2-3 State Environmental Planning Policies sections relevant to the proposal

State Environmental Planning Policy (SEPP)	Section/s	Proponent's Obligations
<p><i>Resilience and Hazards 2021</i></p>	<p>Division 1, Division 2 and Division 3</p>	<p>Development consent must not be granted to development on land that is within the coastal environment area (Figure 2.1.) unless the consent authority has considered whether the proposed development is likely to cause an adverse impact on:</p> <ul style="list-style-type: none"> • <i>the integrity and resilience of the biophysical, hydrological (surface and groundwater) and ecological environment</i> • <i>coastal environmental values and natural coastal processes</i> <p>The site is located within an existing residential development, as long as the development is undertaken as per best practice construction methods for erosion and sedimentation control, only minor and temporary impacts to surface hydrology and sedimentation would be expected from the proposed development. As the development is replacing existing residential property, the site is not expected to substantially increase imperviousness of the lot, and increased runoff and stormwater flows are not expected. The proposed development is justified under the Resilience and Hazards SEPP as it is unlikely to significantly impact coastal environmental values or alter coastal and environmental processes, as it is a redevelopment of an existing residential lot, and does not directly interact with any coastal environmental processes.</p>



Legend
 Subject Site

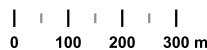
Figure:
 2.1 Coastal
 Environmental Area

Project:
 12-14 Florence St,
 Tweed Heads

Scale:
 1:14,000 @ A4
 GDA2020 MGA56



Data sources
 Spatial data: © NSW Govt 2024
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3 Methods

3.1 Desktop Assessment

A desktop study was completed prior to field assessment to gather relevant information and data. The following databases and Geographic Information System (GIS) layers were searched/analysed:

- BioNet Atlas 10 km x 10 km grid centered on the site and records for the past 10 years 16/01/2025
- Biodiversity Values Map and Threshold Tool and digital data layer (DPIE 2022)
- eSPADE version 2.2
- NSW Planning Portal (DCS 2021) with consideration to the relevant SEPPs
 - Resilience and Hazards 2021
- Protected Matters Search Tool: 5km radius of the site 16/01/2025
- NSW State Vegetation Mapping (extant)
- Sharing and Enabling Environmental Data in NSW (SEED Portal)
- Spatial Collaboration Portal (DCS 2020)

3.1.1 Existing Environment

The existing environment consists of the physical and biological features of the site and the broader study area. The context of the existing environment has been determined from the results of the desktop assessments outlined above. The results of the site assessment will 'ground truth' these physical and environmental features and must be considered in relation to the impact of the proposal.

3.1.1.1 Previously Mapped Plant Community Types

The NSW State Vegetation Mapping (extant) (DPIE 2023c) identifies no previously mapped PCTs or associated TECs. There are a couple of small patches of mapped PCTs approximately 300 m west and 400 m east of the site. A larger area of PCT is approximately 500 m southwest of the site (refer to Figure 3.1).

3.1.1.2 Coastal Environmental Area

SEPP (Resilience & Hazards) identifies the site as part of the Coastal Environmental Area (refer to Figure 3.2).

3.1.1.3 Fauna Corridors and Connectivity

The NSW SEED portal has identified fauna corridors in the general area of the site (refer Figure 3.3). These corridors are approximately 800-1000 m from the site. The Site does not have any direct connectivity to these corridors.

3.1.1.4 Waterways and Waterbodies

No waterways or waterbodies are mapped across the site (or in proximity to the site). The nearest waterbody is approximately 260 m southeast of the site – Terranora Creek (refer Figure 1.1).



Legend

- Subject Site
- PCTs

Figure:
3.1 PCTs

Project:
12-14 Florence St,
Tweed Heads

Scale:
1:5,000 @ A4
GDA2020 MGA56



Data sources
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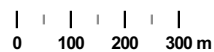
Legend

- Subject Site
- Fauna Corridors

Figure:
3.2 Fauna Corridors

Project:
12-14 Florence St,
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Data sources
Spatial data: © NSW Govt 2024
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3.1.2 BioNet Atlas and Protected Matters Search Tool

3.1.2.1 BioNet Results

BioNet returned confirmed records of 8 threatened flora and 45 threatened fauna species within the search area, including several species listed in the EPBC Act (refer Table 3.3). Habitat for a number of threatened ecological communities (of which several are listed in the EPBC Act) may occur within the locality (refer Table 3.4). However, none of these threatened species or ecological community records occur on or immediately adjacent to the Site.

3.1.2.2 Protected Matters Search Tool

Protected Matters Search Tool (PMST) identified records of 32 threatened flora species, 113 threatened fauna 66 TECs. The results also identified the 78 migratory species within the search area (refer Appendix B). These results are based on modelled potential rather than known records, as such BioNet results (table 3.1) are also presented, as these are actual known sightings and are used for the preparation of the potential occurrence table.

Table 3-1 Threatened species recorded within 5km of the site (BioNet)

Scientific Name	Common Name	NSW status	Comm. status	Records
<i>Crinia tinnula</i>	Wallum Froglet	V	-	56
<i>Litoria olongburensis</i>	Olongburra Frog	V	V	22
<i>Caretta caretta</i>	Loggerhead Turtle	E	E	18
<i>Chelonia mydas</i>	Green Turtle	V	V	16
<i>Anseranas semipalmata</i>	Magpie Goose	V	-	4
<i>Ptilinopus magnificus</i>	Wompoo Fruit-Dove	V	-	3
<i>Ptilinopus regina</i>	Rose-crowned Fruit-Dove	V	-	8
<i>Ptilinopus superbus</i>	Superb Fruit-Dove	V	-	4
<i>Hirundapus caudacutus</i>	White-throated Needletail	V	V	2
<i>Ephippiorhynchus asiaticus</i>	Black-necked Stork	E	-	1
<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	V	-	6
<i>Lophoictinia isura</i>	Square-tailed Kite	V	-	1
<i>Pandion cristatus</i>	Eastern Osprey	V	-	17
<i>Amaurornis moluccana</i>	Pale-vented Bush-hen	V	-	3

Scientific Name	Common Name	NSW status	Comm. status	Records
<i>Burhinus grallarius</i>	Bush Stone-curlew	E	-	178
<i>Esacus magnirostris</i>	Beach Stone-curlew	E	-	11
<i>Haematopus fuliginosus</i>	Sooty Oystercatcher	V	-	2
<i>Haematopus longirostris</i>	Pied Oystercatcher	E	-	15
<i>Irediparra gallinacea</i>	Comb-crested Jacana	V	-	9
<i>Calidris ferruginea</i>	Curlew Sandpiper	E	CE	2
<i>Gallinago hardwickii</i>	Latham's Snipe	V	V	1
<i>Numenius madagascariensis</i>	Eastern Curlew	E	CE	9
<i>Sternula albifrons</i>	Little Tern	E	C	1
<i>Ninox connivens</i>	Barking Owl	V	-	1
<i>Ninox strenua</i>	Powerful Owl	V	-	1
<i>Tyto longimembris</i>	Eastern Grass Owl	V	-	1
<i>Tyto novaehollandiae</i>	Masked Owl	V	-	1
<i>Todiramphus chloris</i>	Collared Kingfisher	V	-	6
<i>Carterornis leucotis</i>	White-eared Monarch	V	-	1
<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	V	E	1
<i>Planigale maculata</i>	Common Planigale	V	-	1
<i>Phascolarctos cinereus</i>	Koala	E	E	66
<i>Petaurus norfolcensis</i>	Squirrel Glider	V	-	13
<i>Potorous tridactylus tridactylus</i>	Northern long-nosed potoroo	V	V	3
<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	V	V	37
<i>Syconycteris australis</i>	Common Blossom-bat	V	-	2
<i>Micronomus norfolkensis</i>	Eastern Coastal Free-tailed Bat	V	-	1
<i>Ozimops lumsdenae</i>	Northern Free-tailed Bat	V	-	7
<i>Myotis macropus</i>	Southern Myotis	V	-	4
<i>Nyctophilus bifax</i>	Eastern Long-eared Bat	V	-	2
<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	V	-	1

Scientific Name	Common Name	NSW status	Comm. status	Records
<i>Miniopterus australis</i>	Little Bent-winged Bat	V	-	27
<i>Miniopterus orianae oceanensis</i>	Large Bent-winged Bat	V		4
<i>Phyllodes imperialis southern subspecies</i>	Southern Pink Underwing Moth	E	E	2
<i>Thersites mitchellae</i>	Mitchell's Rainforest Snail	E	CE	1
<i>Cassia marksiana</i>	-	E	-	6
<i>Archidendron hendersonii</i>	White Lace Flower	V	-	14
<i>Cryptocarya foetida</i>	Stinking Cryptocarya	V	V	6
<i>Rhodamnia maideniana</i>	Smooth Scrub Turpentine	E	CE	2
<i>Syzygium moorei</i>	Durobby	V	V	1
<i>Geodorum densiflorum</i>	Pink Nodding Orchid	E	-	2
<i>Macadamia tetraphylla</i>	Rough-shelled Bush Nut	V	V	2
<i>Lepiderema pulchella</i>	Fine-leaved Tuckeroo	V	-	35

CE = Critically Endangered; E = Endangered; V = Vulnerable, C=CAMBA, J=JAMBA & K = ROKAMBA

Table 3-2 Threatened Ecological Communities within 5km of the site

Community Name	NSW status	Comm. status
Coastal Swamp Oak (<i>Casuarina glauca</i>) Forest of New South Wales and South East Queensland ecological community	E	E
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	E	E
Littoral Rainforest and Coastal Vine Thickets of Eastern Australia	CE	CE
Lowland Rainforest of Subtropical Australia	CE	CE
Subtropical and Temperate Coastal Saltmarsh	V	
Subtropical eucalypt floodplain forest and woodland of the New South Wales North Coast and South East Queensland bioregions	E	E

CE = Critically Endangered; E = Endangered & V = Vulnerable

4 Site Assessment Results

Field assessment was completed on 22/01/2025 by ecologist Shey Smith on a sunny 27°C day and consisted of the following:

4.1 Ground Truthed Vegetation

The site is a residential block with mostly garden plants around the perimeter of the lots. The identified garden plants are a mix of planted native and exotic species. There is no PCT which is considered representative of the vegetation across the site.

4.2 Habitat

The site is primarily a residential block with limited habitat value. It may have some potential foraging and resting habitat for birds, and microhabitats for garden skinks. Only three common urban birds were identified on site during the field assessment (Appendix D).

4.3 Potential Occurrence

Based on the desktop analysis and habitat identified during the site assessment, no threatened fauna species are likely to occur at the site and surrounds (Appendix E). The site is unlikely to be a suitable habitat for any threatened species.



Legend

- Subject Site
- Ground-truthed Vegetation - Mixed cultivated native and exotic garden plants

Figure:
5.1 Ground Truthed Vegetation

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Tweed Heads

Scale:
1:400 @ A4
GDA2020 MGA56



Data sources
Spatial data: © NSW Govt 2024
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5 BDAR Waiver Assessment

Table 5-1 BDAR Waiver Assessment

Biodiversity Value	Impacts of the proposed development on biodiversity values
Vegetation abundance – 1.4(b) BC Regulation	<p>The vegetation on site is primarily a mixed native and exotic urban garden structure, comprising a combination of both planted native species and non-native ornamental plants (Figure 5.1 and Appendix C). The site does include 32 trees. The vegetation does not conform to any local PCTs, reflecting its artificial and highly disturbed nature (Figure 3.1). The proposal will remove approximately 200 m² mixed native and exotic garden vegetation and will not significantly impact the occurrence and abundance of native endemic vegetation. Loss of native plants will be mitigated through landscaping with local native species following the construction, ensuring minimal loss of biodiversity and habitat.</p>
Vegetation integrity 1.5(2)(a) BC Act	<p>The site is an existing residential site, where the vegetation primarily consists of a mixed urban garden with both native and exotic plantings (Figure 5.1 and Appendix C). The composition, structure, and function of the vegetation at the site have been significantly altered from a near-natural state due to the site’s developed nature and ongoing human management. The vegetation is heavily modified, with a mixture of cultivated native species and a variety of exotic plants, including ornamental species and environmental weeds (i.e. Cats Claw Creeper). As such, the integrity of the vegetation is compromised, and it does not represent a natural PCT nor is it mapped as a PCT or TEC (Figure 3.1). The proposed development will impact the current vegetation through approximately 200 m² of vegetation clearing of both cultivated native and exotic plantings, although these areas are largely disturbed and do not support high-quality or intact ecological values. The primary impact on vegetation integrity will be the removal of some cultivated native species and exotic vegetation, and minor changes in local microhabitats. The site’s low-functioning vegetation will be, in part, replaced by native plantings. This will create a net positive outcome for local biodiversity and minimal disturbance to the broader landscape.</p>
Habitat suitability 1.5(2)(b) BC Act	<p>The site is located within an existing residential area and does not support any substantial habitat value for any threatened species or ecological communities. The vegetation present consists of a mixed urban garden structure with both native and exotic species, and the site is unlikely to provide suitable habitat for threatened fauna or flora. There are no karst features, caves, crevices, cliffs, or other geological features of significance on the site. Additionally, there are no rocks or natural geological formations that would serve as habitat for threatened species. The site is also not home to any derelict human-made structures that are known to provide suitable habitat for threatened species. While the development does involve the removal vegetation—both native and exotic—the impact on habitat suitability for threatened species is minimal due to the highly disturbed nature of the existing vegetation. The development avoids significant impacts on the broader landscape, and the removal of non-native vegetation, as prescribed under clause 6.1(1)(a) of the BC Regulation, will be managed carefully to ensure that any native species present are relocated or preserved where possible. Overall, the likelihood of significant</p>

Biodiversity Value	Impacts of the proposed development on biodiversity values
	<p>impacts on threatened species or ecological communities is low, as the site is of small size (approximately 1600 m²), and it is unlikely to substantially support any threatened species.</p>
<p>Threatened species abundance 1.4(a) BC Regulation</p>	<p>A field assessment of the site confirmed that there is no suitable habitat on site that would support threatened species. The vegetation present consists of a mixed urban garden with both native and exotic plantings, and there are no natural water bodies, such as ponds, wetlands, or streams, that would provide suitable habitat for threatened species like frogs or aquatic fauna. Additionally, there are no human-made structures such as old buildings or structures that would provide roosting sites for microbats. The likelihood of vehicle strikes on threatened species is extremely low, given the absence of suitable habitat, and would be the same as it would be for the wider area.</p>
<p>Habitat connectivity 1.4(c) BC Regulation</p>	<p>The site offers limited ecological value and does not significantly contribute to habitat connectivity for any species. The nearest identified fauna corridors are located approximately 800-1000 meters from the site, and the site itself is situated within an urbanized residential area with highly modified and fragmented vegetation (Figure 3.2). Given the disturbed nature of the site, it has minimal capacity to facilitate the movement of fauna species across their natural range, besides being a temporary steppingstone on the larger migratory path. Although, other properties in the vicinity of the site offer similar stepping stone capacity to the site. The proposed development will not significantly disrupt habitat connectivity, as the site is not a critical link between larger habitat areas or migration corridors for any species. The proposed works are unlikely to impede the natural movement of fauna or affect broader landscape connectivity for threatened species.</p>
<p>Threatened species movement 1.4(d) BC Regulation</p>	<p>The site has limited capacity to contribute to the movement of threatened species and the maintenance of their lifecycle, given its location within an existing residential area and the highly modified nature of the vegetation. The site is dominated by a mix of native and exotic plantings in an urban garden setting, offering minimal ecological value in terms of habitat for threatened species, besides offering limited browsing options for frugivorous birds and bats from the existing palm trees. As the site does not provide essential habitat for threatened species, the likelihood of any remaining impacts on their movement or lifecycle is negligible. The development is expected to have minimal or no impact on the movement of threatened species, given the limited ecological function of the site and its distance from suitable habitat areas.</p>
<p>Flight path integrity 1.4(e) BC Regulation</p>	<p>The site is located within an urbanized residential area and does not appear to be situated along known flight paths of protected animals, such as those listed in Schedule 5 of the BC Act. A review of the site and surrounding landscape indicates that the site is unlikely to be inclusive in the flight path or migratory behaviour of birds, mammals, amphibians, or reptiles. Migratory species would more likely follow closer along coast, Terranora Creek and/or the fauna corridors (Figure 3.2), rather than to engage with the low ecological value urban development which is the site. The site's disturbed and highly modified nature, with its mix of native and exotic vegetation, does not support suitable habitat for species that rely on specific flight paths for migration or movement. Any potential impacts from construction activities, such as noise and light are expected to be temporary disturbances. Any ongoing</p>

Biodiversity Value	Impacts of the proposed development on biodiversity values
	<p>disturbance, in terms of urban lighting and noise is expected to be similar to pre-development levels. Therefore, the proposed development is unlikely to interfere with the flight paths of protected animals or disrupt their migration routes.</p>
<p>Water sustainability 1.4(f) BC Regulation</p>	<p>A field assessment confirmed that the site does not contain hydrological features that support any fauna species, particularly frogs or aquatic birds. The nearest waterbody is approximately 260 m southeast of the site – Terranora Creek (Figure 1.1). The proposed development will be undertaken under best practice construction practices designed to minimize any impacts on the existing stormwater systems. Measures such as the installation of silt fences and other sediment control techniques established in the <i>Blue Book</i> will be implemented to prevent discharges of poor water quality and sedimentation into surrounding areas. These sedimentation controls are legally required under NSW regulations to ensure that construction activities do not degrade water quality or harm nearby environments. As the proposed development is replacing existing residential buildings, with a similarly sized structure, there will be no increase in impervious hardstand area. As such runoff volume is not likely to increase, and will discharge into existing stormwater network. Additionally, there is no risk of subsidence or upsidence from underground mining or similar activities, as the site is not associated with any such land use. Therefore, the likelihood of any impacts on water quality, hydrological processes, or water bodies is minimal. The development is unlikely to affect water resources that sustain threatened species or ecological communities, given the lack of significant water features or ecological values on-site or immediately adjacent to site.</p>

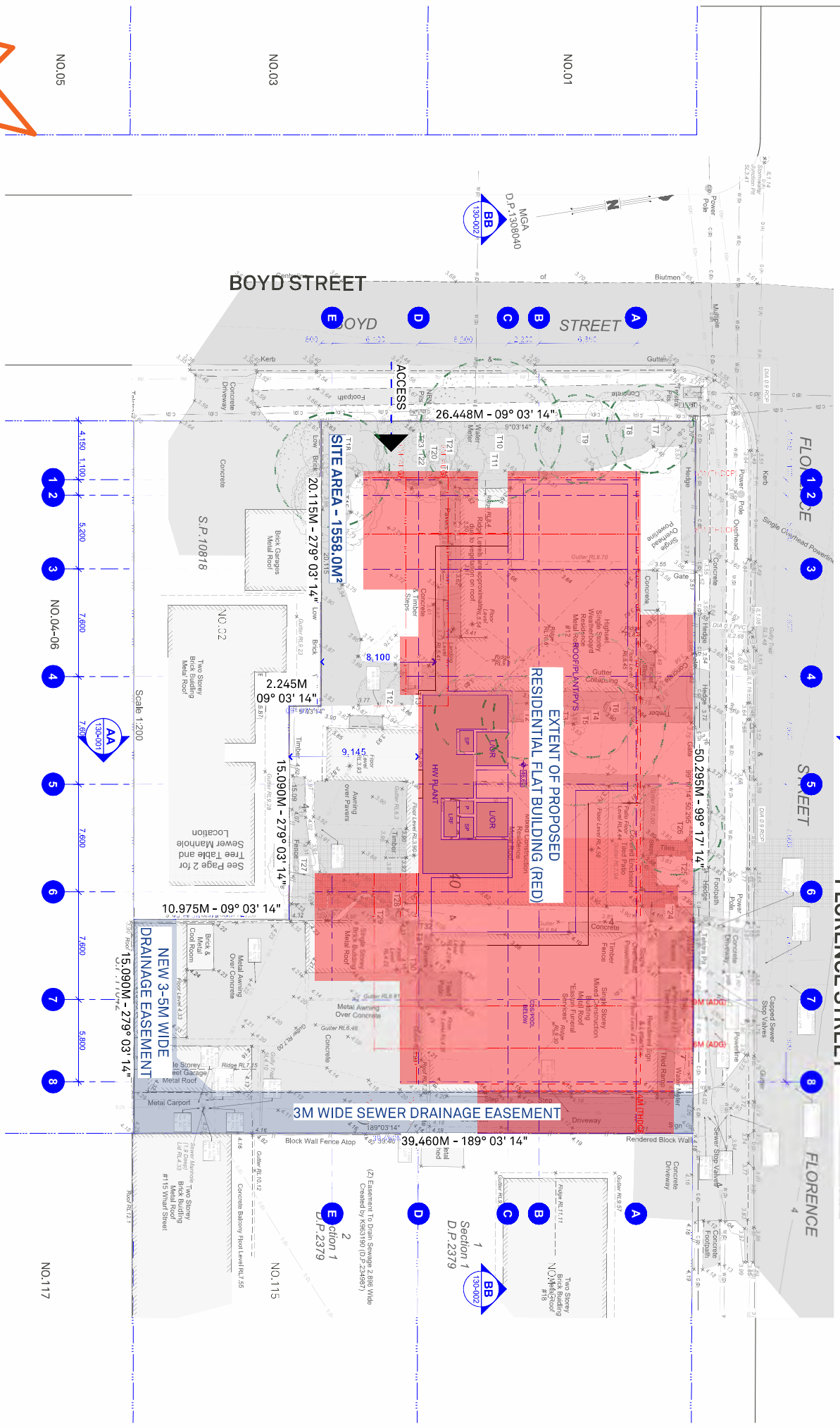
6 Recommendations

Based on the assessment of the site, it is recommended that a Biodiversity Development Assessment Report (BDAR) be waived for the following reasons:

1. **Limited Ecological Value of the Site:** The site is an existing residential area with highly modified vegetation consisting of a mixed urban garden structure of native and exotic plant species. The vegetation does not represent a natural or intact ecological community and does not provide suitable habitat for threatened species or ecological communities. A field assessment confirmed the absence of key habitat features that would support threatened species or their lifecycle processes.
2. **Absence of Threatened Species and Habitat:** The site does not support any identified threatened species or ecological communities, nor does it contribute to essential habitat connectivity or movement corridors for threatened fauna. The nearest fauna corridors are located approximately 800-1000 meters away from the site, and the site does not serve as a critical link between larger habitat areas. There is no evidence of protected flight paths or significant habitat for migrating species over the site.
3. **Water Sustainability and Sedimentation Control:** The site does not contain water bodies or natural hydrological features that are essential for sustaining threatened species. The proposed development will be undertaken in accordance with best practice construction methods that comply with NSW regulations, including the installation of silt fences and sedimentation controls to prevent water quality degradation and sedimentation. These practices are legally required to protect the surrounding environment and ensure minimal impact on stormwater systems.
4. **Low Risk of Impacts on Biodiversity:** Given the disturbed nature of the site and the lack of significant biodiversity values, the proposed development is unlikely to result in any substantial impacts on local biodiversity, threatened species, or ecological processes. The development design avoids areas of higher ecological value and mitigates potential impacts through construction practices and the absence of significant environmental features.

In conclusion, the site's low ecological value, combined with the absence of threatened species and critical habitats, supports the recommendation for a BDAR waiver. The proposed development is highly unlikely to result in significant impacts on biodiversity, water quality, or habitat connectivity, and the necessary safeguards are in place to ensure compliance with environmental regulations. Therefore, it is recommended that the BDAR requirement be waived for this development.

Appendix A – Proposed Development



BENSON MCCORMACK ARCHITECTURE
 NOMINATED ARCHITECTS
 D. BENSON A/B, NSW 7288, WA A/B, 3301
 G. MCCORMACK A/B, NSW 7536, A/B, 20415

5/ 505 BALMAIN RD, LILYFIELD NSW, 2040
 WWW.BENSONMCCORMACK.COM
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CLIENT
DREAMBUILD
 6/37A KING ROAD,
 HORNSBY NSW, 2077

LEGEND

AMENDMENTS

REV	DESCRIPTION	DRAWN	CHK	DATE
01	ISSUED FOR SUBMISSION			



SITE INFORMATION
Site Plan

PROJECT NAME
2408A - 12-16F
 12-16 FLORENCE STREET,
 BRINDALONG COUNTY

STATUS
 SCOPING SUBMISSION
 11.25.17 @ A3

SCALE
 DRAWING NUMBER
DA-001-002
 REVISION
01

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Appendix B – BioNet and PMST Results



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: 16-Jan-2025

[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)	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	6
Listed Threatened Species:	113
Listed Migratory Species:	78

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:	7
Commonwealth Heritage Places:	None
Listed Marine Species:	114
Whales and Other Cetaceans:	13
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:	5
Regional Forest Agreements:	1
Nationally Important Wetlands:	2
EPBC Act Referrals:	16
Key Ecological Features (Marine):	None
Biologically Important Areas:	7
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

[[Resource Information](#)]

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

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

Community Name	Threatened Category	Presence Text	Buffer Status
Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community	Endangered	Community likely to occur within area	In feature area
Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland	Endangered	Community likely to occur within area	In buffer area only
Littoral Rainforest and Coastal Vine Thickets of Eastern Australia	Critically Endangered	Community likely to occur within area	In buffer area only
Lowland Rainforest of Subtropical Australia	Critically Endangered	Community likely to occur within area	In buffer area only
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area	In buffer area only
Subtropical eucalypt floodplain forest and woodland of the New South Wales North Coast and South East Queensland bioregions	Endangered	Community likely to occur within area	In feature area

Listed Threatened Species

[[Resource Information](#)]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.

Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Anthochaera phrygia Regent Honeyeater [82338]	Critically Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
Ardenna grisea Sooty Shearwater [82651]	Vulnerable	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Roosting known to occur within area	In feature area
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Roosting known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris tenuirostris Great Knot [862]	Vulnerable	Roosting known to occur within area	In feature area
Calyptorhynchus lathami lathami South-eastern Glossy Black-Cockatoo [67036]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area
Climacteris picumnus victoriae Brown Treecreeper (south-eastern) [67062]	Vulnerable	Species or species habitat known to occur within area	In feature area
Cyclopsitta diophthalma coxeni Coxen's Fig-Parrot [59714]	Critically Endangered	Species or species habitat may occur within area	In feature area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Diomedea antipodensis gibsoni Gibson's Albatross [82270]	Vulnerable	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	Species or species habitat may occur within area	In feature area
Erythrotriorchis radiatus Red Goshawk [942]	Endangered	Species or species habitat likely to occur within area	In feature area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat may occur within area	In feature area
Fregetta grallaria grallaria White-bellied Storm-Petrel (Tasman Sea), White-bellied Storm-Petrel (Australasian) [64438]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat known to occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat may occur within area	In feature area
Limosa lapponica baueri Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380]	Endangered	Species or species habitat known to occur within area	In feature area
Limosa limosa Black-tailed Godwit [845]	Endangered	Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
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	Species or species habitat may occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat known to occur within area	In feature area
Phoebastria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pluvialis squatarola Grey Plover [865]	Vulnerable	Roosting known to occur within area	In feature area
Pterodroma leucoptera leucoptera Gould's Petrel, Australian Gould's Petrel [26033]	Endangered	Species or species habitat may occur within area	In buffer area only
Pterodroma neglecta neglecta Kermadec Petrel (western) [64450]	Vulnerable	Foraging, feeding or related behaviour 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
Stagonopleura guttata Diamond Firetail [59398]	Vulnerable	Species or species habitat may occur within area	In feature area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may 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	Species or species habitat may occur within area	In feature area
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Species or species habitat may occur within area	In feature area
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 known to occur within area	In feature area
Turnix melanogaster Black-breasted Button-quail [923]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Xenus cinereus Terek Sandpiper [59300]	Vulnerable	Roosting known to occur within area	In feature area
FISH			
Epinephelus daemeli Black Rockcod, Black Cod, Saddled Rockcod [68449]	Vulnerable	Species or species habitat may occur within area	In feature area
Hippocampus whitei White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Seriolella brama Blue Warehou [69374]	Conservation Dependent	Species or species habitat known to occur within area	In buffer area only
FROG			
Litoria olongburensis Wallum Sedge Frog [1821]	Vulnerable	Species or species habitat known to occur within area	In feature area
Mixophyes fleayi Fleay's Frog [25960]	Endangered	Species or species habitat likely to occur within area	In feature area
INSECT			
Argynnis hyperbius inconstans Australian Fritillary [88056]	Critically Endangered	Species or species habitat may occur within area	In feature area
Phyllodes imperialis smithersi Pink Underwing Moth [86084]	Endangered	Species or species habitat known to occur within area	In buffer area only
MAMMAL			
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area	In buffer area only
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Endangered	Species or species habitat may occur within area	In feature area
Dasyurus maculatus maculatus (SE mainland population) Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat likely to occur within area	In feature area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Notamacropus parma Parma Wallaby [89289]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Petauroides volans Greater Glider (southern and central) [254]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Petaurus australis australis Yellow-bellied Glider (south-eastern) [87600]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	Endangered	Species or species habitat known to occur within area	In feature area
Potorous tridactylus tridactylus Long-nosed Potoroo (northern) [66645]	Vulnerable	Species or species habitat known to occur within area	In feature area
Pseudomys novaehollandiae New Holland Mouse, Pookila [96]	Vulnerable	Species or species habitat may occur within area	In feature area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Roosting known to occur within area	In feature area
Xeromys myoides Water Mouse, False Water Rat, Yirrkoo [66]	Vulnerable	Species or species habitat may occur within area	In feature area
PLANT			
Acronychia littoralis Scented Acronychia [8582]	Endangered	Species or species habitat known to occur within area	In feature area
Arthraxon hispidus Hairy-joint Grass [9338]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Baloghia marmorata Marbled Baloghia, Jointed Baloghia [8463]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Bosistoa transversa Three-leaved Bosistoa, Yellow Satinheart [16091]	Vulnerable	Species or species habitat known to occur within area	In feature area
Cryptocarya foetida Stinking Cryptocarya, Stinking Laurel [11976]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Cryptostylis hunteriana Leafless Tongue-orchid [19533]	Vulnerable	Species or species habitat may occur within area	In feature area
Cynanchum elegans White-flowered Wax Plant [12533]	Endangered	Species or species habitat may occur within area	In buffer area only
Davidsonia johnsonii Smooth Davidsonia, Smooth Davidson's Plum, Small-leaved Davidson's Plum [67178]	Endangered	Species or species habitat may occur within area	In buffer area only
Diospyros mabacea Red-fruited Ebony, Silky Persimmon, Ebony [18548]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Diploglottis campbellii Small-leaved Tamarind [21484]	Endangered	Species or species habitat likely to occur within area	In feature area
Endiandra floydii Floyd's Walnut, Crystal Creek Walnut [52955]	Endangered	Species or species habitat likely to occur within area	In feature area
Endiandra hayesii Rusty Rose Walnut, Velvet Laurel [13866]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Floydia praealta Ball Nut, Possum Nut, Big Nut, Beefwood [15762]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Fontainea australis Southern Fontainea [24037]	Vulnerable	Species or species habitat may occur within area	In feature area
Gossia fragrantissima Sweet Myrtle, Small-leaved Myrtle [78867]	Endangered	Species or species habitat known to occur within area	In buffer area only
Hicksbeachia pinnatifolia Monkey Nut, Bopple Nut, Red Bopple, Red Bopple Nut, Red Nut, Beef Nut, Red Apple Nut, Red Boppel Nut, Ivory Silky Oak [21189]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Leichhardtia longiloba listed as Marsdenia longiloba Clear Milkvine [91911]	Vulnerable	Species or species habitat known to occur within area	In feature area
Macadamia integrifolia Macadamia Nut, Queensland Nut Tree, Smooth-shelled Macadamia, Bush Nut, Nut Oak [7326]	Vulnerable	Species or species habitat may occur within area	In feature area
Macadamia tetraphylla Rough-shelled Bush Nut, Macadamia Nut, Rough-shelled Macadamia, Rough-leaved Queensland Nut [6581]	Vulnerable	Species or species habitat known to occur within area	In feature area
Ochrosia moorei Southern Ochrosia [11350]	Endangered	Species or species habitat may occur within area	In buffer area only
Owenia cepiodora Onionwood, Bog Onion, Onion Cedar [11344]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Phaius australis Lesser Swamp-orchid [5872]	Endangered	Species or species habitat known to occur within area	In feature area
Randia moorei Spiny Gardenia [10577]	Endangered	Species or species habitat known to occur within area	In feature area
Rhodamnia maideniana Smooth Scrub Turpentine [20665]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Rhodamnia rubescens Scrub Turpentine, Brown Malletwood [15763]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Rhodomyrtus psidioides Native Guava [19162]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Sarcochilus fitzgeraldii Ravine Orchid [19131]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Sophora fraseri [8836]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Syzygium hodgkinsoniae Smooth-bark Rose Apple, Red Lilly Pilly [3539]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Syzygium moorei Rose Apple, Coolamon, Robby, Durobby, Watermelon Tree, Coolamon Rose Apple [12284]	Vulnerable	Species or species habitat known to occur within area	In feature area
Thesium australe Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Vincetoxicum woollsii listed as Tylophora woollsii [40080]	Endangered	Species or species habitat may occur within area	In feature area

REPTILE

Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding known to occur within area	In feature area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Coeranoscincus reticulatus Three-toed Snake-tooth Skink [59628]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Delma torquata Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Furina dunmalli Dunmall's Snake [59254]	Vulnerable	Species or species habitat may occur within area	In feature area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding likely to occur within area	In feature area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Saltuarius moritzi New England Leaf-tailed Gecko, Moritz's Leaf-tailed Gecko [89490]	Endangered	Species or species habitat may occur within area	In buffer area only
SHARK			
Carcharias taurus (east coast population) Grey Nurse Shark (east coast population) [68751]	Critically Endangered	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Galeorhinus galeus School Shark, Eastern School Shark, Snapper Shark, Tope, Soupfin Shark [68453]	Conservation Dependent	Species or species habitat may occur within area	In buffer area only
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding 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
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In feature area
SNAIL			
Thersites mitchellae Mitchell's Rainforest Snail [66774]	Critically Endangered	Species or species habitat known 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 likely to 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]		Species or species habitat known to occur within area	In feature area	
Ardenna grisea Sooty Shearwater [82651]	Vulnerable	Species or species habitat may occur within area	In feature area	
Ardenna pacifica Wedge-tailed Shearwater [84292]		Breeding known to occur within area	In buffer area only	
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat known to occur within area	In feature area	
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	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	Species or species habitat may occur within area	In feature area	
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area	In feature area	
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area	In feature area	

Scientific Name	Threatened Category	Presence Text	Buffer Status
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	Species or species habitat may occur within area	In feature area
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat known to occur within area	In feature area
Phoebastria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sternula albifrons Little Tern [82849]		Breeding may occur within area	In feature area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may 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	Species or species habitat may occur within area	In feature area
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Species or species habitat may 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

Scientific Name	Threatened Category	Presence Text	Buffer Status
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area	In buffer area only
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In buffer area only
Carcharias taurus Grey Nurse Shark [64469]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding known to occur within area	In feature area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area
Dugong dugon Dugong [28]		Species or species habitat may occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area
Eubalaena australis as Balaena glacialis australis Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area	In feature area
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding likely to occur within area	In feature area
Megaptera novaeangliae Humpback Whale [38]		Congregation or aggregation known to occur within area	In buffer area only
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	Foraging, feeding or related behaviour known to occur within area	In feature area
Orcaella heinsohni Australian Snubfin Dolphin [81322]		Species or species habitat may occur within area	In buffer area only
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding 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
Sousa sahalensis as Sousa chinensis Australian Humpback Dolphin [87942]		Breeding known to occur within area	In feature area

Migratory Terrestrial Species

Scientific Name	Threatened Category	Presence Text	Buffer Status
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Roosting known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Roosting known to occur within area	In feature area
Calidris alba Sanderling [875]		Roosting known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area	In feature area
Calidris subminuta Long-toed Stint [861]		Roosting known to occur within area	In feature area
Calidris tenuirostris Great Knot [862]	Vulnerable	Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius bicinctus Double-banded Plover [895]		Roosting known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat known 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
Glareola maldivarum Oriental Pratincole [840]		Roosting known to occur within area	In buffer area only
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
Limosa limosa Black-tailed Godwit [845]	Endangered	Roosting known to occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting known to occur within area	In feature area
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area	In feature area
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area	In feature area
Pluvialis squatarola Grey Plover [865]	Vulnerable	Roosting known to occur within area	In feature area
Thalasseus bergii Greater Crested Tern [83000]		Breeding known to occur within area	In buffer area only
Tringa brevipes Grey-tailed Tattler [851]		Roosting known to occur within area	In feature area
Tringa glareola Wood Sandpiper [829]		Roosting known to occur within area	In buffer area only
Tringa incana Wandering Tattler [831]		Roosting known to occur within area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area	In feature area
Xenus cinereus Terek Sandpiper [59300]	Vulnerable	Roosting known 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
Communications, Information Technology and the Arts - Telstra Corporation Limited Commonwealth Land - Australian Telecommunications Commission [11235]	NSW	In feature area
Commonwealth Land - Australian Telecommunications Corporation [11237]	NSW	In buffer area only

Defence

Defence - TS VAMPIRE [10019]	NSW	In buffer area only
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Commonwealth Land Name	State	Buffer Status
Defence - TS VAMPIRE [10020]	NSW	In buffer area only
Unknown		
Commonwealth Land - [11234]	NSW	In feature area
Commonwealth Land - [11236]	NSW	In buffer area only
Commonwealth Land - [15713]	NSW	In buffer area only

Listed Marine Species	[Resource Information]		
Scientific Name	Threatened Category	Presence Text	Buffer Status

Bird			
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Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Anous stolidus Common Noddy [825]		Species or species habitat likely to occur within area	In feature area
Anseranas semipalmata Magpie Goose [978]		Species or species habitat may occur within area overfly marine 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
Ardenna carneipes as Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Species or species habitat known to occur within area	In feature area
Ardenna grisea as Puffinus griseus Sooty Shearwater [82651]	Vulnerable	Species or species habitat may occur within area	In feature area
Ardenna pacifica as Puffinus pacificus Wedge-tailed Shearwater [84292]		Breeding known to occur within area	In buffer area only
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Breeding likely to occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Roosting known to occur within area	In feature area
Calidris alba Sanderling [875]		Roosting known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area overfly marine area	In feature area
Calidris subminuta Long-toed Stint [861]		Roosting known to occur within area overfly marine area	In feature area
Calidris tenuirostris Great Knot [862]	Vulnerable	Roosting known to occur within area overfly marine area	In feature area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat known to occur within area	In feature area
Charadrius bicinctus Double-banded Plover [895]		Roosting known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area
Charadrius ruficapillus Red-capped Plover [881]		Roosting known to occur within area overfly marine area	In feature area
Chroicocephalus novaehollandiae as Larus novaehollandiae Silver Gull [82326]		Breeding known to occur within area	In buffer area only
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Species or species habitat may occur within area	In feature area
Diomedea antipodensis gibsoni as Diomedea gibsoni Gibson's Albatross [82270]	Vulnerable	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	Species or species habitat may occur within area	In feature area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area	In feature area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Species or species habitat known to occur within area	In feature area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Gallinago megala Swinhoe's Snipe [864]		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
Glareola maldivarum Oriental Pratincole [840]		Roosting known to occur within area overfly marine area	In buffer area only
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Roosting known to occur within area overfly marine area	In feature area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Lathamus discolor Swift Parrot [744]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In feature area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
Limosa limosa Black-tailed Godwit [845]	Endangered	Roosting known to occur within area overfly marine 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	Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat known to occur within area overfly marine area	In feature area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting known to occur within area overfly marine area	In feature area
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area	In feature area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat known to occur within area	In feature area
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area
Phaethon lepturus White-tailed Tropicbird [1014]		Species or species habitat known to occur within area	In feature area
Phoebastria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pluvialis squatarola Grey Plover [865]	Vulnerable	Roosting known to occur within area overfly marine area	In feature area
Pterodroma cervicalis White-necked Petrel [59642]		Species or species habitat may occur within area	In feature area
Recurvirostra novaehollandiae Red-necked Avocet [871]		Roosting known to occur within area overfly marine area	In feature area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat known 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 striata White-fronted Tern [799]		Foraging, feeding or related behaviour likely to occur within area	In feature area
Sternula albifrons as Sterna albifrons Little Tern [82849]		Breeding may occur within area	In feature area
Symposiachrus trivirgatus as Monarcha trivirgatus Spectacled Monarch [83946]		Species or species habitat known to occur within area overfly marine area	In feature area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may 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	Species or species habitat may occur within area	In feature area
Thalassarche salvini Salvin's Albatross [64463]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalasseus bergii as Sterna bergii Greater Crested Tern [83000]		Breeding known to occur within area	In buffer area only
Tringa brevipes as Heteroscelus brevipes Grey-tailed Tattler [851]		Roosting known to occur within area	In feature area
Tringa glareola Wood Sandpiper [829]		Roosting known to occur within area overfly marine area	In buffer area only
Tringa incana as Heteroscelus incanus Wandering Tattler [831]		Roosting known to occur within area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area overfly marine area	In feature area
Xenus cinereus Terek Sandpiper [59300]	Vulnerable	Roosting known to occur within area overfly marine area	In feature area

Fish

Scientific Name	Threatened Category	Presence Text	Buffer Status
Acentronura tentaculata Shortpouch Pygmy Pipehorse [66187]		Species or species habitat may occur within area	In buffer area only
Campichthys tryoni Tryon's Pipefish [66193]		Species or species habitat may occur within area	In buffer area only
Corythoichthys amplexus Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area	In buffer area only
Corythoichthys ocellatus Orange-spotted Pipefish, Ocellated Pipefish [66203]		Species or species habitat may occur within area	In buffer area only
Festucalex cinctus Girdled Pipefish [66214]		Species or species habitat may occur within area	In buffer area only
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area	In buffer area only
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area	In buffer area only
Hippichthys cyanospilos Blue-speckled Pipefish, Blue-spotted Pipefish [66228]		Species or species habitat may occur within area	In buffer area only
Hippichthys heptagonus Madura Pipefish, Reticulated Freshwater Pipefish [66229]		Species or species habitat may occur within area	In buffer area only
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area	In buffer area only
Hippocampus kelloggi Kellogg's Seahorse, Great Seahorse [66723]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area	In buffer area only
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area	In buffer area only
Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area	In buffer area only
Hippocampus whitei White's Seahorse, Crowned Seahorse, Sydney Seahorse [66240]	Endangered	Species or species habitat likely to 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
Micrognathus andersonii Anderson's Pipefish, Shortnose Pipefish [66253]		Species or species habitat may occur within area	In buffer area only
Micrognathus brevirostris thorntail Pipefish, Thorn-tailed Pipefish [66254]		Species or species habitat may occur within area	In buffer area only
Microphis manadensis Manado Pipefish, Manado River Pipefish [66258]		Species or species habitat may occur within area	In buffer area only
Solegnathus dunckeri Duncker's Pipehorse [66271]		Species or species habitat may occur within area	In buffer area only
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Solegnathus spinosissimus Spiny Pipehorse, Australian Spiny Pipehorse [66275]		Species or species habitat may occur within area	In buffer area only
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area	In buffer area only
Solenostomus paradoxus Ornate Ghostpipefish, Harlequin Ghost Pipefish, Ornate Ghost Pipefish [66184]		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
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In buffer area only
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		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
Mammal			
Dugong dugon Dugong [28]		Species or species habitat may occur within area	In buffer area only
Reptile			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding known to occur within area	In feature area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat known to occur within area	In feature area
Hydrophis elegans Elegant Sea Snake, Bar-bellied Sea Snake [1104]		Species or species habitat may occur within area	In buffer area only
Hydrophis platura as Pelamis platurus Yellow-bellied Sea Snake [93746]		Species or species habitat may occur within area	In buffer area only
Hydrophis stokesii as Astrotia stokesii Stokes' Sea Snake [93510]		Species or species habitat may occur within area	In buffer area only
Lepidochelys olivacea Olive Ridley Turtle, Pacific Ridley Turtle [1767]	Endangered	Breeding likely to occur within area	In feature area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known 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 buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat may occur within area	In buffer area only

Current Scientific Name	Status	Type of Presence	Buffer Status
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	Species or species habitat 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
Megaptera novaeangliae Humpback Whale [38]		Congregation or aggregation known to occur within area	In buffer area only
Orcaella heinsohni Australian Snubfin Dolphin [81322]		Species or species habitat may occur within area	In buffer area only
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Sousa sahalensis Australian Humpback Dolphin [87942]		Breeding known to occur within area	In feature area
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
Cobaki	Nature Reserve	NSW	In buffer area only
Cook Island	Nature Reserve	NSW	In buffer area only
Cook Island	Aquatic Reserve	NSW	In buffer area only
Tweed Estuary	Nature Reserve	NSW	In buffer area only
Ukerebagh	Nature Reserve	NSW	In buffer area only

Regional Forest Agreements [\[Resource Information \]](#)

Note that all areas with completed RFAs have been included. Please see the associated resource information for specific caveats and use limitations associated with RFA boundary information.

RFA Name	State	Buffer Status
North East NSW RFA	New South Wales	In feature area

Nationally Important Wetlands [\[Resource Information \]](#)

Wetland Name	State	Buffer Status
Cook Island Nature Reserve	NSW	In buffer area only
Ukerebagh Island Nature Reserve	NSW	In buffer area only

EPBC Act Referrals [\[Resource Information \]](#)

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Access for industrial subdivision	2023/09663		Completed	In buffer area only
Controlled action				
Cobaki Lakes Residential Development	2010/5296	Controlled Action	Post-Approval	In buffer area only
Gold Coast Airport Southern Development Area Expansion, Gold Coast, QLD	2014/7266	Controlled Action	Post-Approval	In buffer area only
Tugun Bypass	2004/1861	Controlled Action	Post-Approval	In feature area
Tugun Bypass Four-lane Dual Motorway	2003/1122	Controlled Action	Completed	In feature area
Not controlled action				
Banora Point Pacific Highway Upgrade	2008/4047	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Boyd St Overpass	2006/3094	Not Controlled Action	Completed	In buffer area only
Gold Coast Airport Instrument Landing Project, Qld	2015/7428	Not Controlled Action	Completed	In buffer area only
Hideaway Currumbin Residential development	2005/2136	Not Controlled Action	Completed	In feature area
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
Tree clearing Lagoon Road, Fingal Head, NSW	2014/7383	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
Aquaculture Production Facility	2002/824	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Construction and Operation of Desalination Plant	2006/2973	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Gold Coast Coastal Protection Three Point Plan, QLD	2013/7103	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Gold Coast Ocean Terminal, Bilinga, Qld	2012/6610	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Referral decision				
Breeding program for Grey Nurse Sharks	2007/3245	Referral Decision	Completed	In buffer area only
Biologically Important Areas				
		[Resource Information]		
Scientific Name		Behaviour	Presence	Buffer Status
Dolphins				
Sousa chinensis				
Indo-Pacific Humpback Dolphin [50]		Breeding	Known to occur	In buffer area only
Sousa chinensis				
Indo-Pacific Humpback Dolphin [50]		Foraging	Likely to occur	In buffer area only
Tursiops aduncus				
Indo-Pacific/Spotted Bottlenose Dolphin [68418]		Breeding	Likely to occur	In buffer area only
Marine Turtles				

Scientific Name	Behaviour	Presence	Buffer Status
Caretta caretta Loggerhead Turtle [1763]	Nesting	Known to occur	In buffer area only
Sharks			
Carcharias taurus Grey Nurse Shark [64469]	Foraging	Known to occur	In buffer area only
Whales			
Megaptera novaeangliae Humpback Whale [38]	Migration (north and south)	Known to occur	In buffer area only
Megaptera novaeangliae Humpback Whale [38]	Resting on migration (southbound)	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

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

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

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Appendix C – Photographs



Appendix D – Flora and Fauna Inventory

Table 0-1 Flora Records observed on site

Scientific Name	Common Name	Exotic
<i>Acalypha herzogiana</i>	Dwarf Cat's Tail	
<i>Aechmea blanchetiana</i>	Orangeade Bromeliad	*
<i>Agave spp</i>	Agave	*
<i>Alcantarea imperialis</i>	Giant Bromeliad	*
<i>Antigonon leptopus</i>	Coral Vine	
<i>Archontophoenix alexandrae</i>	Alexandra Palm	*
<i>Archontophoenix cunninghamiana</i>	Bangalow Palm	
<i>Asparagus aethiopicus</i>	Climbing Asparagus	*
<i>Asparagus plumosus</i>	Asparagus Fern	*
<i>Asplenium nidus</i>	Bird's Nest Fern	
<i>Beaucarnea recurvata</i>	Ponytail Palm	*
<i>Bougainvillea spp</i>	Bougainvillea	
<i>Callistemon spp</i>	Bottlebrush	
<i>Canna spp</i>	Canna	
<i>Citrus spp</i>	Citrus	*
<i>Codariocalyx motorius</i>	Telegraph Plant	
<i>Commelina cyanea</i>	Native Wandering Jew	
<i>Cordyline manners-suttoniae</i>	Giant Palm Lily	*
<i>Crassula ovata</i>	Jade Plant	*
<i>Cupaniopsis anacardioides</i>	Tuckeroo	
<i>Cyathea cooperi</i>	Straw Treefern	
<i>Cycas revoluta</i>	Sago Palm	*
<i>Dolichandra unguis-cati</i>	Cats Claw Creeper	*
<i>Duranta erecta</i>	Sky Flower	*
<i>Dyopsis lutescens</i>	Yellow Butterfly Palm	*
<i>Elaeocarpus reticulatus</i>	Blueberry Ash	
<i>Eugenia uniflora</i>	Brazilian Cherry	*
<i>Ficus spp</i>	Fig	*
<i>Galphimia gracilis</i>	Gold Shower	*
<i>Homalanthus populifolius</i>	Bleeding Heart	
<i>Iris spp</i>	Iris	*
<i>Ligustrum lucidum</i>	Broad-Leaved Privet	*
<i>Livistona australis</i>	Cabbage Palm	
<i>Loropetalum chinense</i>	Chinese Fringe Flower	*
<i>Morus nigra</i>	Black Mulberry	*
<i>Murraya paniculata</i>	Orange Jasmine	*
<i>Neoregelia spp</i>	Blushing Bromeliad	*
<i>Nephrolepis cordifolia</i>	Fishbone Fern	
<i>Ochna serrulata</i>	Mickey Mouse Plant	*
<i>Pandanus utilis</i>	Common Screwpine	
<i>Passiflora spp</i>	Passionfruit	
<i>Persea americana</i>	Avocado	*
<i>Phoenix roebelenii</i>	Pygmy Date Palm	*
<i>Platynerium bifurcatum</i>	Elkhorn Fern	
<i>Potulacaria afra</i>	Elephant Bush	*
<i>Schefflera actinophylla</i>	Umbrella Tree	*
<i>Senna pendula var. glabrata</i>	Easter Cassia	

Scientific Name	Common Name	Exotic
<i>Solanum lycopersicum</i>	Tomato	*
<i>Strelitzia reginae</i>	Birds of Paradise	*
<i>Syngonium podophyllum</i>	Arrowhead Vine	*
<i>Tradescantia spathacea</i>	Boat Lily	
<i>Yucca sp.</i>	Yucca	*
<i>Zamia furfuracea</i>	Cardboard Palm	
<i>Zingiber spp</i>	Ginger	*

Table 0-2 Fauna Records observed on site

Scientific Name	Common Name	Observation Type	BC Act	EPBC Act
<i>Manorina melanocephala</i>	Noisy Miner	O	P	-
<i>Acridotheres tristis</i>	Common Mynah*	O	-	-
<i>Corvus orru</i>	Torresian Crow	O	P	-

*Exotic; P=Protected

Observation type: W=Heard, O= Observed, S=Scats & T=Tracks.

Appendix E Potential Occurrence

Table 0-3 Potential Occurrence

Common name	Scientific Name	Habitat	BC Act	EPBC Act	Potential Occurrence
Frogs					
<i>Crinia tinnula</i>	Wallum Froglet	Found in a wide range of habitats, usually associated with acidic swamps on coastal sand plains. They typically occur in sedgelands and wet heathlands. They can also be found along drainage lines within other vegetation communities and disturbed areas, and occasionally in swamp sclerophyll forests.	V	-	No suitable wetland habitat on site. Species is unlikely to occur onsite.
<i>Litoria olongburensis</i>	Olongburra Frog	"Acid" frog confined to the coastal sandplain wallum swamps	V	V	No suitable acid wetland habitat on site. Species is unlikely to occur on site.
Turtles					
<i>Caretta caretta</i>	Loggerhead Turtle	Open ocean, immediate beach during nesting	E	E	Marine species. Not going to occur on site.
<i>Chelonia mydas</i>	Green Turtle	Open ocean, immediate beach during nesting	V	V	Marine species. Not going to occur on site.
Birds					
<i>Amaurornis moluccana</i>	Pale-vented Bush-hen	inhabits tall dense understorey or ground-layer vegetation on the margins of freshwater streams and natural or artificial wetlands, usually within or bordering rainforest, rainforest remnants or forests.	V	-	Only three sighted in area in last 20 years. Site does not contain suitable tall dense understorey. Species unlikely to occur on site

<i>Anseranas semipalmata</i>	Magpie Goose	Mainly found in shallow wetlands (less than 1 m deep) with dense growth of rushes or sedges.	V	-	Only four sighted in area in last 20 years, No suitable wetland area on site. Species unlikely to occur on site.
<i>Burhinus grallarius</i>	Bush Stone-curlew	Inhabits open forests and woodlands with a sparse grassy ground layer and fallen timber.	E	-	Potential to occur in the area. Site does not contain suitable open woodland vegetation with sparse grassy groundcover habitat. Species is unlikely to occur on site.
<i>Calidris ferruginea</i>	Curlew Sandpiper	Occurs in littoral and estuarine habitats and non-tidal swamps, lakes and lagoons on the coast and sometimes inland. It forages in or at the edge of shallow water, occasionally on exposed algal mats or waterweed, or on banks of beach-cast seagrass or seaweed.	E	CE	Only two sighted in area in last 20 years. Site does not contain suitable coastal or inland wetland habitat suitable for this species. Species is unlikely to occur on site.
<i>Carterornis leucotis</i>	White-eared Monarch	Occurs in rainforest, especially drier types, such as littoral rainforest, as well as wet and dry sclerophyll forests, swamp forest and regrowth forest.	V	-	Only one sighted in area in last 20 years. No suitable forest habitat on site. Species unlikely to occur on site.
<i>Ephippiorhynchus asiaticus</i>	Black-necked Stork	Floodplain wetlands (swamps, billabongs, watercourses and dams) of the major coastal rivers are the key habitat in NSW for the Black-necked Stork. Secondary habitat includes minor floodplains, coastal sandplain wetlands and estuaries.	E	-	Only one sighted in area in last 20 years. No suitable wetland habitat on site. Species unlikely to occur on site.

<i>Esacus magnirostris</i>	Beach Stone-curlew	Found exclusively along the coast, on a wide range of beaches, islands, reefs and in estuaries, and may often be seen at the edges of or near mangroves. They forage in the intertidal zone of beaches and estuaries, on islands, flats, banks and spits of sand, mud, gravel or rock, and among mangroves. Beach Stone-curlews breed above the littoral zone, at the backs of beaches, or on sandbanks and islands, among low vegetation of grass, scattered shrubs or low trees; also, among open mangroves.	CE	-	Only eleven sighted in the area in last 20 years. Exclusively found along immediate coastal edge. Site is not suitable habitat. Species is unlikely to occur on site.
<i>Gallinago hardwickii</i>	Latham's Snipe	Freshwater wetlands on or near the coast	V	V	Only one sighted in area in last 20 years, No suitable freshwater wetland habitat on site. Species unlikely to occur on site.
<i>Haematopus fuliginosus</i>	Sooty Oystercatcher	Favours rocky headlands, rocky shelves, exposed reefs with rock pools, beaches and muddy estuaries. Forages on exposed rock or coral at low tide for foods such as limpets and mussels.	V	-	Only two sighted in area in last 20 years. Found along immediate coastal edge. Site is not suitable habitat for this species. Species is unlikely to occur on site.
<i>Haematopus longirostris</i>	Pied Oystercatcher	Favours intertidal flats of inlets and bays, open beaches and sandbanks. Forages on exposed sand, mud and rock at low tide, for molluscs, worms, crabs and small fish.	E	-	Only 15 sighted in area in last 20 years. Found along immediate coastal edge. Site is not suitable habitat for this species. Species is unlikely to occur on site.
<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	Occurs at sites near the sea or seashore, such as around bays and inlets, beaches, reefs, lagoons, estuaries and mangroves; and at, or in the vicinity of freshwater swamps, lakes, reservoirs, billabongs and saltmarsh. Perches/roosts in tall trees or man made structures	V	-	Only six sighted in area in last 20 years. Site not suitable for hunting ground or breeding site. Unlikely to occur on site

<i>Hirundapus caudacutus</i>	White-throated Needletail	Migratory and usually seen in eastern Australia from October to April.	V	V	Only two sighted in area in last 20 years. Species unlikely to occur on site.
<i>Irediparra gallinacea</i>	Comb-crested Jacana	Inhabit permanent freshwater wetlands, either still or slow-flowing, with a good surface cover of floating vegetation, especially water-lilies, or fringing and aquatic vegetation.	V	-	Only nine sighted in the area in last 20 years. Site does not contain suitable wetland habitat. Species is unlikely to occur on site.
<i>Lophoictinia isura</i>	Square-tailed Kite	Woodlands and open forests. Shows a particular preference for timbered watercourses.	V	-	Only one sighted in area in last 20 years. Site not suitable habitat for this species. Species unlikely to occur on site.
<i>Ninox connivens</i>	Barking Owl	Inhabits woodland and open forest, including fragmented remnants and partly cleared farmland.	V	-	Only one sighted in area in last 20 years. Open woodland habitat is not present on site. Site not suitable for roosting or hunting. Species unlikely to occur on site.
<i>Ninox strenua</i>	Powerful Owl	Inhabits woodland and open sclerophyll forest to tall open wet forest and rainforest. Requires large tracts of forest or woodland habitat but can occur in fragmented landscapes as well. The species breeds and hunts in open or closed sclerophyll forest or woodlands and occasionally hunts in open habitats. It roosts by day in dense vegetation	V	-	Only one sighted in area in last 20 years. Open woodland habitat is not present on site. Site not suitable for roosting or hunting. Species unlikely to occur on site.

<i>Numenius madagascariensis</i>	Eastern Curlew	Occupies coastal lakes, inlets, bays and estuarine habitats, mainly found in intertidal mudflats and sometimes saltmarsh of sheltered coasts. Occasionally, the species occurs on ocean beaches (often near estuaries), and coral reefs, rock platforms, or rocky islets. It forages in or at the edge of shallow water, occasionally on exposed algal mats or waterweed, or on banks of beach-cast seagrass or seaweed.	E	CE	Only nine sighted in the area in last 20 years. No suitable coastal or freshwater wetland habitat on site. Species is unlikely to occur on site.
<i>Pandion cristatus</i>	Eastern Osprey	Favour coastal areas, especially the mouths of large rivers, lagoons and lakes. Feed on fish over clear, open water.	V	-	Only 17 observed in last 20 years. Potential to occur in the area. Site is not suitable habitat for this species. Species is unlikely to occur on site.
<i>Ptilinopus magnificus</i>	Wompoo Fruit-Dove	Occurs in, or near rainforest, low elevation moist eucalypt forest and brush box forests.	V	-	Only three sighted in area in last 20 years. Site does not contain suitable rainforest or eucalyptus bush habitat suitable to support browsing by this species. Species unlikely to occur on site.
<i>Ptilinopus regina</i>	Rose-crowned Fruit-Dove	Occur mainly in sub-tropical and dry rainforest and occasionally in moist eucalypt forest and swamp forest, where fruit is plentiful.	V	-	Only eight sighted in area in last 20 years, Site does not contain suitable forest vegetation, or a high abundance of fruit bearing trees suitable for browsing. Species unlikely to occur on site.

<i>Ptilinopus superbus</i>	Superb Fruit-Dove	Inhabits rainforest and similar closed forests where it forages high in the canopy, eating the fruits of many tree species such as figs and palms.	V	-	Only four sighted in area in last 20 years, Site does not contain suitable forest vegetation, or a high abundance of fruit bearing trees suitable for browsing. Species unlikely to occur on site.
<i>Sternula albifrons</i>	Little Tern	Almost exclusively coastal, preferring sheltered environments; however, may occur several kilometres from the sea in harbours, inlets and rivers (with occasional offshore islands or coral cay records). Nests in small, scattered colonies in low dunes or on sandy beaches just above high tide mark near estuary mouths or adjacent to coastal lakes and islands.	E	C	Only one sighted in area in last 20 years. Preferred coastal sand habitat not present on site. Species unlikely to occur on site.
<i>Todiramphus chloris</i>	Collared Kingfisher	Lives in association with mangrove of estuaries, inlets, sheltered bays and islands, and the tidal flats and littoral zone bordering mangroves.	V	-	Only six sighted in area in last 20 years. No estuarine habitat present on site. Species is unlikely to occur on site.
<i>Tyto longimembris</i>	Eastern Grass Owl	Found in areas of tall grass, including grass tussocks, in swampy areas, grassy plains, swampy heath, and in cane grass or sedges on flood plains.	V	-	Only one sighted in area in last 20 years. Site does not contain suitable tall grassy understorey habitat. Species unlikely to occur on site.
<i>Tyto novaehollandiae</i>	Masked Owl	Lives in dry eucalypt forests and woodlands from sea level to 1100 m. A forest owl, but often hunts along the edges of forests, including roadsides	V	-	Only one sighted in area in last 20 years. Forest habitat not present on or near site. Species unlikely to occur on site
Mammals					

<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	Rainforest, open forest, woodland, coastal heath and inland riparian forest, from the sub-alpine zone to the coastline. Quolls use hollow-bearing trees, fallen logs, other animal burrows, small caves and rock outcrops as den sites	V	E	Only one sighted in area in last 20 years. Preferred woodland habitat not present on site. Limited connectivity to site would prevent this terrestrial species to access site. No fallen logs or rocky outcrops on site. Species is unlikely to occur on site.
<i>Micronomus norfolkensis</i>	Eastern Coastal Free-tailed Bat	Occur in dry sclerophyll forest, woodland, swamp forests and mangrove forests. Roost mainly in tree hollows but will also roost under bark or in man-made structures. Forages for insects in open forests	V	-	Only one sighted in area in last 20 years. Site not suitable for foraging. Species unlikely to occur on site.
<i>Miniopterus australis</i>	Little Bent-winged Bat	Cave roosting species found in moist eucalypt forest, rainforest or dense coastal banksia scrub.	V	-	Only 27 sighted in area in last 20 years. No cave structures on or near site suitable for roosting. Species unlikely to occur on site.
<i>Miniopterus orianae oceanensis</i>	Large Bent-winged Bat	Primary roosting habitat is caves, but also uses derelict mines, stormwater tunnels, buildings and other man-made structures. Hunt in forested areas catching moths and other flying insects above treetops.	V	-	Only four sighted in area in last 20 years. No natural or human made structures on or near site suitable for roosting. Species unlikely to occur on site.
<i>Myotis macropus</i>	Southern Myotis	Roost close to water in caves, mine shafts, hollow-bearing trees, stormwater channels, buildings, under bridges and in dense foliage. Forage over streams and pools catching insects and small fish by raking their feet across the water surface.	V	-	Only four sighted in area in last 20 years. No suitable roosting or feeding habitat on site. Species unlikely to occur on site

<i>Nyctophilus bifax</i>	Eastern Long-eared Bat	Lowland subtropical rainforest and wet and swamp eucalypt forest, extending into adjacent moist eucalypt forest. Coastal rainforest and patches of coastal scrub are particularly favoured. Roosts in tree hollows, the hanging foliage of palms, in dense clumps of foliage of rainforest trees, under bark and in shallow depressions on trunks and branches, among epiphytes, in the roots of strangler figs, among dead fronds of tree ferns and less often in buildings.	V	-	Only two sighted in area in last 20 years. Possible but limited habitat on site. Given low observations, species is unlikely to occur on site
<i>Ozimops lumsdenae</i>	Northern Free-tailed Bat	Rainforests to open forests and woodlands, and are often recorded along watercourses. They can also occur in towns and cities. Roost mainly in tree hollows but relatively large colonies have been found under house roofs	V	-	Only seven sighted in area in last 20 years. No tree hollows on site for roosting. Unlikely to occur on site.
<i>Petaurus norfolcensis</i>	Squirrel Glider	Inhabits mature or old growth Box, Box-Ironbark woodlands and River Red Gum forest west of the Great Dividing Range and Blackbutt-Bloodwood forest with heath understorey in coastal areas. Prefers mixed species stands with a shrub or Acacia midstorey.	V	-	Only 13 sighted in area in last 20 years. Site does not contain suitable mature eucalyptus or dense understorey shrub species. Species unlikely to occur on site.
<i>Phascolarctos cinereus</i>	Koala	Eucalypt woodlands and forests.	E	E	Sixty-six observed in area in last 20 years. Limited connectivity to site to allow movement to site. No feed trees or suitable habitat trees on or near site. Species unlikely to occur on site.

<i>Planigale maculata</i>	Common Planigale	Inhabit rainforest, eucalypt forest, heathland, marshland, grassland and rocky areas where there is surface cover, and usually close to water.	V	-	Only one sighted in area in last 20 years. Site does not have any suitable forest habitat present. Species unlikely to occur on site.
<i>Potorous tridactylus tridactylus</i>	Northern long-nosed potoroo	Inhabits coastal heaths and dry and wet sclerophyll forests. Dense understorey with occasional open areas is an essential part of habitat.	V	V	Only three sighted in area in last 20 years. No suitable dense understorey present on site. Species is unlikely to occur on site.
<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	Occur in subtropical and temperate rainforests, tall sclerophyll forests and woodlands, heaths and swamps as well as urban gardens and cultivated fruit crops.	V	V	Only 37 records in area in last 20 years. No camps present on site or in near vicinity. Some fruit bearing trees on site that may offer temporary food resource. Species may temporarily visit site, although adjacent areas offer identical or greater habitat value.
<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	Woodland through to moist and dry eucalypt forest and rainforest, though it is most commonly found in tall wet forest. Roosts in eucalyptus. Forages for insects in open canopy	V	-	Only one sighted in area in last 20 years. Site not suitable for foraging. Species unlikely to occur on site.
<i>Syconycteris australis</i>	Common Blossom-bat	Roost in littoral rainforest and feed on nectar and pollen from flowers in adjacent heathland and paperbark swamps.	V	-	Only two sighted in area in last 20 years. Site does not contain suitable foraging or roosting habitat. Species unlikely to occur on site.
Invertebrates					
<i>Phyllodes imperialis southern subspecies</i>	Southern Pink Underwing Moth	Subtropical rainforest below about 600 m elevation. Potential breeding habitat is restricted to areas where the caterpillar's food plant, a native rainforest vine, <i>Carronia multisepealea</i> , occurs in subtropical rainforest.	E	E	Only two sighted in area in last 20 years. Site does not contain suitable rainforest habitat nor native vine host

					plant. Species unlikely to occur on site.
<i>Thersites mitchellae</i>	Mitchell's Rainforest Snail	Lowland subtropical rainforest and swamp forest on alluvial soils. Slightly higher ground around the edges of wetlands with palms and fig trees are particularly favoured habitat.	E	CE	Only one sighted in area in last 20 years. Site does not contain suitable moist ground habitat. Species unlikely to occur on site.
Plants					
<i>Archidendron hendersonii</i>	White Lace Flower	Occurs in riverine and lowland subtropical rainforest, littoral rainforest, coastal cypress pine forest and their ecotones. It is found on a variety of soils including coastal sands and those derived from basalt and metasediments.	V	-	Only 14 sighted in area in last 20 years. Site not representative of typical habitat for this species. Species not observed during site assessment. Species unlikely to occur on site.
<i>Cassia marksiana</i>	-	Found in littoral and riverine rainforest, and in regrowth vegetation on farmland and along roadsides. It prefers more fertile soil-types and is often found in low and flat sites.	E	-	Only six sighted in area in last 20 years. Site not representative of typical habitat for this species. Species not observed during site assessment. Species unlikely to occur on site.
<i>Cryptocarya foetida</i>	Stinking Cryptocarya	Found in littoral, warm temperate and subtropical rainforest, wet sclerophyll forest and Camphor laural forest usually on sandy soils, but mature trees are also known on basalt soils.	V	V	Only six sighted in area in last 20 years. Site not representative of typical habitat for this species. Species not observed during site assessment. Species unlikely to occur on site.

<i>Geodorum densiflorum</i>	Pink Nodding Orchid	Dry eucalypt forest, coastal swamp forest, and coastal dune shrublands at lower altitudes, often on sand.	E	-	Only two sighted in area in last 20 years. Site not representative of typical habitat for this species. Species not observed during site assessment. Species unlikely to occur on site.
<i>Lepiderema pulchella</i>	Fine-leaved Tuckeroo	Found on infertile metasediments, fertile basalts and backswamp alluvium in the Tweed Valley.	V	-	Thirty-five sighted in area in last 20 years. Site not representative of typical habitat for this species. Species not observed during site assessment. Species unlikely to occur on site.
<i>Macadamia tetraphylla</i>	Rough-shelled Bush Nut	Found in subtropical rainforest, usually near the coast.	V	V	Only two sighted in area in last 20 years. Site not representative of typical habitat for this species. Species not observed during site assessment. Species unlikely to occur on site.
<i>Rhodamnia maideniana</i>	Smooth Scrub Turpentine	Found in littoral, warm temperate and subtropical rainforest and wet sclerophyll forest usually on volcanic and sedimentary soils.	E	CE	Only two sighted in area in last 20 years. Site not representative of typical habitat for this species. Species not observed during site assessment. Species unlikely to occur on site.
<i>Syzygium moorei</i>	Durobby	Durobby is found in subtropical and riverine rainforest at low altitude. It often occurs as isolated remnant paddock trees.	V	V	Only one sighted in area in last 20 years. Site not representative of typical habitat for this species. Species not observed during site assessment. Species unlikely to occur on site.



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