

# BIODIVERSITY DEVELOPMENT ASSESSMENT REPORT

88 Waterloo Road, Macquarie Park NSW 2113



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27 January 2026  
F1

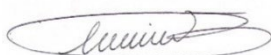
## REPORT

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| F1      | Final report            | Chelsea Tiller | James Madden       | Polina Zadorojnaya | 27/01/2026  |

### This Biodiversity Development Assessment Report has been certified by the following accredited assessor:

Polina Zadorojnaya (BAAS 23014)



23 January 2026

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# EXECUTIVE SUMMARY

## Introduction

Cottonwood Development Pty Ltd have engaged RPS AAP Consulting Pty Ltd (RPS) to prepare a Biodiversity Development Assessment Report (BDAR) to support a Proposal for 88 Waterloo Road, Macquarie Park NSW; formally known as 15-21 Cottonwood Crescent, Macquarie Park. In 2024, RPS prepared a Flora and Fauna Assessment to support a residential Development Application [LDA2024/0158] for the site.

This assessment describes the ecological values of the Subject Land, the desktop and field assessment methods used to investigate and characterise the ecological values and provides a predicted ecological impact analysis for the Proposal. Investigations are focused on threatened biodiversity and related matters listed under the NSW *Biodiversity Conservation Act 2016* (BC Act) and Matters of National Environmental Significance listed under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

This BDAR has been prepared in accordance with Appendix D of the *Biodiversity Assessment Method 2020* (BAM, DPE 2020): Streamlined Assessment Module – Planted Native Vegetation.

## The Proposal

This Biodiversity Assessment Report has been prepared to accompany a State Significant Development Application (SSDA) and concurrent Rezoning Proposal – SSD-94006708 for a mixed-use development identified at 15-21 Cottonwood Crescent, Macquarie Park (the site).

The Proposal includes provision for the demolition of existing buildings and construction of a residential development comprising two residential flat buildings above a common basement car park / sleaved podium incorporating residential, car parking, and a retail component within the Waterloo Road frontage and provision of 10% affordable housing.

The legal description of the site is outlined in **Table 1-1** below.

**Table 1-1: Legal description of the site**

| Property Address                       | Title Description |
|----------------------------------------|-------------------|
| 15 Cottonwood Crescent, Macquarie Park | SP8144            |
| 17 Cottonwood Crescent, Macquarie Park | SP7630            |
| 19 Cottonwood Crescent, Macquarie Park | SP7892            |
| 21 Cottonwood Crescent, Macquarie Park | SP7984            |

Note: for the purposes of reporting and branding of the Proposal, we will also refer to the site as '88 Waterloo Road, Macquarie Park'.

This report has been prepared to address the Secretary's Environmental Assessment Requirements (SEARs) issued for the project (SSD-94006708).

## Key results

### Landscape context

The Subject Land occurs in the Pittwater Subregion of the Sydney Basin Bioregion and intersects with one Mitchell Landscape unit: Pennant Hills Ridges. The Subject Land is situated approximately 950 m south-west of the Lane Cover National Park which is a large contiguous patch of vegetation. The Subject Land, however, is situated amongst largely fragmented habitat separated by large blocks of commercial and residential areas, and major arterial roads.

The Subject Land does not have any water waterbodies present. The closest waterway is Shrimpton's Creek, a 2<sup>nd</sup> order stream approximately 120 m south-east of the Subject Land. The riparian corridor associated with this stream runs for approximately 3.5 km and is made up of patchy riparian vegetation.

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Access to this riparian corridor can be made via a vegetated pedestrian pathway from Cottonwood Crecent, opposite the Subject Land. There are no cliffs, caves or rocky areas present within the Subject Land.

## Species credit species

No threatened flora or fauna species were observed within the Subject Land.

As habitat of low-moderate or greater suitability was identified for four BC Act and one EPBC Act listed threatened fauna species, it is considered necessary to apply the precautionary approach to the following threatened fauna species listed under the BC Act and EPBC Acts:

- Little Lorikeet (*Glossopsitta pusilla*) – Vulnerable (BC Act)
- Grey-headed Flying-fox (*Pteropus poliocephalus*) – Vulnerable (EPBC & BC Acts)
- Yellow-bellied Sheath-tail-bat (*Saccolaimus flaviventris*) – Vulnerable (BC Act)
- Large Bent-winged Bat (*Miniopterus orianae oceanensis*) – Vulnerable (BC Act).

## Measures to avoid and minimise

The location of the Subject Land is within a highly urbanised and disturbed location. Historic use of the Subject Land suggests it has been within a disturbed context for at least 70 years and has been urbanised for majority of that. The strategic positioning of Subject Land within a densely urbanised context means any future development is already well serviced by public infrastructure (e.g. transport and commercial centres), negating the need for ancillary development if located more remotely.

Overall, any future development within the Subject Land has the capacity to reduce impacts (i.e., avoid and minimise) on native vegetation and habitat by utilising existing cleared lands and retaining native vegetation wherever possible. Carefully considered landscaping of a future development has the potential to also yield a net improvement of the ecological condition of vegetation and biodiversity values within the Subject Land. Additionally, timing construction to minimise the length of time buildings are left vacant will reduce the risk of bats colonising the empty structures.

Although areas outside of the Subject Land were not assessed as part of this assessment, land proposed as the Lane Cove NP is considered likely to contain significantly higher condition vegetation communities and continuous patches of vegetated corridors. This area is also considered likely to contain highly suitable foraging and breeding resources for resident fauna, all of which will be protected through the Proposal.

## Potential impacts

It is estimated that the Proposal would result in a vegetation disturbance of approximately 0.15 ha, comprising of exotic and native planted vegetation. Impacts on the vegetation present, and associated habitat values for threatened species and ecological communities listed on the BC Act and EPBC Act were evaluated. No specialist breeding habitat (i.e., hollow-bearing trees) will be impacted by the Proposal.

Potential indirect impacts associated with the Proposal include removal of foraging habitat and opportunistic roost sites in vacated buildings for insectivorous microbats. Where impacts to threatened entities were considered possible, an Assessment of Significant (5-part Test) was undertaken per the BC Act, and an Assessment of Significant Impact Criteria was undertaken per the EPBC Act. These assessments concluded that the Proposal is not likely to have a significant impact on threatened species, ecological communities, or their habitats.

As this assessment relates to a Proposal rather than a Development Application, consideration of future potential impacts has been completed for the Proposal Area. The direct impacts described here are thereby likely an overestimation of the final impacts.

Potential direct, prescribed and indirect impacts include:

- Loss of non-native vegetation used as foraging habitat
- Inadvertent impacts on adjacent habitat or vegetation (e.g. sedimentation)
- Reduced viability of adjacent habitat due to noise, dust or light spill
- Transport of weeds and pathogens from the site to adjacent vegetation

- 
- Fertiliser drift
  - Shadowing of Shrimptons Creek riparian corridor.

Potential prescribed impacts include impacts to human-made structures, non-native vegetation, hydrological processes and vehicle strikes.

## **Mitigating residual impacts**

Mitigation measures provided in this assessment are indicative only and will be updated following detailed design at the DA Stage. Recommended measures include the following:

- Retention of existing native canopy wherever possible
- Exclusion zones and protection of retained vegetation during construction
- Ecological pre-clearing surveys for microbats, specialist fauna habitat and threatened species, followed by clearing supervision
- Landscaping with locally occurring vegetation communities
- Hygiene, erosion and stockpiling measures
- Management of stormwater run-off, and by extension, fertiliser drift by utilising water sensitive urban design
- Flora and fauna assessment of the areas of Shrimpton's Creek riparian corridor which may be affected by shadowing
- Building design to minimise effects of shadowing.

## TERMS AND DEFINITIONS

| Term         | Definition                                                                                                                                                                   |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AOBV         | Area of Outstanding Biodiversity Value                                                                                                                                       |
| asl          | above sea level                                                                                                                                                              |
| BAM          | Biodiversity Assessment Method                                                                                                                                               |
| BAM-C        | Biodiversity Assessment Method calculator                                                                                                                                    |
| BC Act       | <i>Biodiversity Conservation Act 2016</i>                                                                                                                                    |
| BCD          | Biodiversity and Conservation Division                                                                                                                                       |
| BAR          | Biodiversity Assessment Report                                                                                                                                               |
| BOS          | Biodiversity Offset Scheme                                                                                                                                                   |
| BV Map       | Biodiversity Values Map                                                                                                                                                      |
| RDGP         | <i>Ryde Development Control Plan 2014</i>                                                                                                                                    |
| CEMP         | Construction Environmental Management Plan                                                                                                                                   |
| Cth DCCEEW   | Commonwealth Department of Climate Change, Energy, the Environment and Water                                                                                                 |
| DA           | Development Application                                                                                                                                                      |
| DAWE         | Department of Agriculture, Water and the Environment                                                                                                                         |
| DCP          | Development Control Plan                                                                                                                                                     |
| DoE          | Department of the Environment                                                                                                                                                |
| DPE          | NSW Department of Planning and Environment                                                                                                                                   |
| DPIE         | NSW Department of Planning Industry and Environment                                                                                                                          |
| EP&A Act     | <i>Environmental Planning and Assessment Act 1979</i>                                                                                                                        |
| EPBC Act     | <i>Environmental Protection and Biodiversity Conservation Act 1999</i>                                                                                                       |
| FM Act       | <i>Fisheries Management Act 1994</i>                                                                                                                                         |
| GIS          | Geographic Information System                                                                                                                                                |
| ha           | hectare                                                                                                                                                                      |
| IBRA         | Interim Biogeographic Regionalisation for Australia                                                                                                                          |
| km           | kilometre                                                                                                                                                                    |
| KFH          | Key Fish Habitat                                                                                                                                                             |
| KTP          | Key Threatening Process                                                                                                                                                      |
| LEP          | Local Environmental Plan                                                                                                                                                     |
| LGA          | Local Government Area                                                                                                                                                        |
| Locality     | Land within a 5 km radius of the Subject Land                                                                                                                                |
| LSPS         | Local Strategic Planning Statement                                                                                                                                           |
| m            | metre                                                                                                                                                                        |
| MNES         | Matter of National Environmental Significance                                                                                                                                |
| NPWS         | National Parks and Wildlife Service                                                                                                                                          |
| NSW          | New South Wales                                                                                                                                                              |
| NSW DCCEEW   | NSW Department of Climate Change, Energy, the Environment and Water (formerly DPE)                                                                                           |
| PCT          | Plant Community Type                                                                                                                                                         |
| Proposal     | The proposed development                                                                                                                                                     |
| RCC          | Ryde City Council                                                                                                                                                            |
| SEPP         | State Environmental Planning Policy                                                                                                                                          |
| Subject Land | Land directly associated with future proposed development, this being 88 Waterloo Road, Macquarie Park NSW 2113 [Lot 2 SP8144; Lot 15 SP7630; Lot 7 SP7892 and Lot C SP7984] |
| SRZ          | Structural Root Zone                                                                                                                                                         |
| SVTM         | NSW State Vegetation Type Map                                                                                                                                                |

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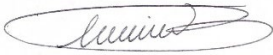
| Term                | Definition                                                                 |
|---------------------|----------------------------------------------------------------------------|
| TEC                 | Threatened Ecological Community                                            |
| Threatened entities | State and Commonwealth listed threatened species or ecological communities |
| TSPD                | Threatened Species Profile Database                                        |
| TSSC                | Threatened Species Scientific Committee                                    |
| WM Act              | <i>Water Management Act 2000</i>                                           |

---

# DECLARATIONS

## i. Certification under clause 6.15 Biodiversity Conservation Act 2016

I certify that this report has been prepared based on the requirements of, and information provided under, the Biodiversity Assessment Method and clause 6.15 of the *Biodiversity Conservation Act 2016* (BC Act).

Signature: 

Date: 23/01/2026

BAM Assessor Accreditation no: 23014

This BDAR has been prepared to meet the requirements of BAM 2020. **Appendix B** provides an assessment of compliance with the minimum information requirements outlined in BAM Appendix L.

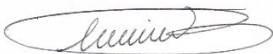
## ii. Details and experience of author/s and contributors

### Authors and contributors

| Name           | BAM Assessor Accreditation no. | Position/Role    | Tasks performed                                              | Relevant qualifications |
|----------------|--------------------------------|------------------|--------------------------------------------------------------|-------------------------|
| Polina Irwin   | 23014                          | Senior Ecologist | Report review, field surveys, BAM-C data review and analysis | BSc                     |
| Rebecca Cocks  | N/A                            | Ecologist        | Report preparation                                           | BEnvSciM                |
| Chelsea Tiller | N/A                            | Ecologist        | Report preparation                                           | BSc                     |
| James Madden   | 24030                          | Senior Ecologist | Report review                                                | BSc, MRes               |
| Natalie Wood   | N/A                            | Spatial Analyst  | Mapping and figure preparation                               | N/A                     |

## iii. Conflict of interest

I declare that I have considered the circumstances and there is no actual, perceived or potential conflict of interest.

Signature: 

Date: 23/01/2026

BAM Assessor Accreditation no: 23014

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# STAGE 1: BIODIVERSITY ASSESSMENT



---

# 1 INTRODUCTION

This Biodiversity Development Assessment Report (BDAR) has been prepared on behalf of Cottonwood Development Pty Ltd to support a Proposal for 88 Waterloo Road, Macquarie Park (formally known as 15-21 Cottonwood Crescent). In 2024, RPS prepared a Flora and Fauna Assessment to support a residential Development Application for the site. However, the project is now proceeding as a Proposal in line with detailed comments from a pre-lodgement meeting with the City of Ryde Council. All areas associated with the Proposal are referred to as the 'Subject Land', as displayed in **Figure 1-1**.

This BDAR describes the ecological values of the Subject Land, the desktop and field assessment methods used to investigate and characterise the ecological values and provides a predicted ecological impact analysis for the Proposal. Investigations are focused on threatened biodiversity and related matters listed under the NSW *Biodiversity Conservation Act 2016* (BC Act) and Matters of National Environmental Significance (MNES) listed under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

This BDAR has been prepared in accordance with Appendix D of the *Biodiversity Assessment Method 2020* (BAM, DPE 2020): Streamlined Assessment Module – Planted Native Vegetation.

## 1.1 Proposed development

This report has been prepared in support of a State Significant Development Application (SSDA) and concurrent Rezoning Proposal – SSD-94006708 – at 15-21 Cottonwood Crescent, Macquarie Park (AKA. 88 Waterloo Road).

The application seeks development consent for the redevelopment of the site for a mixed-use development comprising residential accommodation and retail uses.

Specifically, this application seeks approval for the following:

- Demolition of all existing four-storey residential flat buildings on the site
- Site preparation works including:
  - Removal of existing vegetation
  - Excavation of the site to a maximum depth of six (6) basement levels
- Construction of two mixed-use buildings comprising a 60 and 52 storey building respectively, which will accommodate:
  - 858 Residential apartments inclusion 10% affordable housing of the uplift being sought
- Six (6) levels of basement with 825 car parking spaces, bicycle parking, services.
  - A two-level commercial podium containing:
    - Retail spaces
    - Four townhouses
    - Residential lobbies
    - Waste Storages
    - Residential and visitor Parking spaces
    - Bicycle Parking spaces
- Communal Open Space and residential amenities on level four (4).
- Rooftop Terrace on Level 52 of Cottonwood Crescent Tower and level 60 of Waterloo Road Tower.

The Proposal includes provision to amend Clauses 4.3 and 4.4 of the *Ryde Local Environmental Plan 2014* (RLEP2014) by virtue of the concurrent rezoning process. This includes the following amendments:

- Clause 4.3 – Height of Buildings:
  - Amend the current 65 m maximum building height to 205.5 m
- Clause 4.4 – FSR:

- Amend the current FSR of 4.5:1 to 17:8:1

This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) dated 8 October 2025 and issued for the SSDA (SSD-94006708). Specifically, this report has been prepared to respond to the SEARs requirement and government agency comments issued in **Table 1-1** below.

**Table 1-1 SEARS Requirements and Government Agency Comments**

| SEARS                                                                                       | Item                                                         | Required information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Section reference                      |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| SSD-94006708<br>SEARs<br>Industry<br>Specific<br>Cover Letter                               | Additional assessment requirements (p.3 of SEARS)            | <b>Biodiversity Development Assessment Report</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Whole document</b>                  |
|                                                                                             | Additional assessment requirements (p.3 and 4 of SEARS)      | <b>Matters of National Environmental Significance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Section 2.1.1 and Section 9.1.3</b> |
| SSD-94006708<br>SEARs<br>Combined<br>Agency<br>Advice: Part 2 –<br>Supplement<br>Commentary | e) Development Engineering (p.11 of SEARS)                   | <b>g) Parks and Open Spaces</b><br>Shadow impacts to Elouera Reserve and the Cottonwood Reserve to the south east given the proposed height should be considered with a site-specific shadow study. By way of best practice "sunlight control is best measured on the winter solstice. Best practice policies have a clear objective, an easy to follow metrics and allow for 4 to 5 hours of uninterrupted sunlight on the winter solstice to either a minimum of 50 percent of the total park area or for 100% of the active zones of the park (containing turf surfaces and soft landscaping). | <b>Section 9.2</b>                     |
| SSD-94006708<br>Industry<br>Specific<br>SEARs -<br>Housing                                  | 2. Proposed Amendments (p.2 of SEARS)                        | An explanation of the provisions that are to be included in the proposed legislative changes. This section should be clearly stated and contain enough information on the proposal including but not limited to: proposed zones and/or development standards if known at this stage.                                                                                                                                                                                                                                                                                                              | <b>Section 2</b>                       |
|                                                                                             | 4. Relevant Issues (p.2 of SEARS)                            | <b>Biodiversity</b><br>The section shall cover off all relevant issues relating to the subject site and proposed changes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Whole document</b>                  |
| SSD-94006708<br>Concurrent<br>Rezoning<br>Requirements<br>for SEARS                         | Key issues and supporting documentation Table (p.1 of SEARS) | <b>1. Statutory Context</b><br>Address all relevant legislation, environmental planning instruments (EPIs) (including drafts), plans, policies, guidelines and planning circulars. Provide an accurate summary of the detailed assessment of the impacts of the project and integrate the findings and recommendations of technical reports into the justification and evaluation of the project as a whole.                                                                                                                                                                                      | <b>Section 2</b>                       |
|                                                                                             | Key issues and supporting documentation Table (p.3 of SEARS) | <b>7. Environmental Amenity</b><br>Provide a solar access analysis of the overshadowing impacts of the development within the site, on surrounding properties and public spaces (during winter solstice) at hourly intervals between 9am and 3pm, comparing the proposed development, existing situation and where applicable, a development with no bonuses applied.                                                                                                                                                                                                                             | <b>Whole document</b>                  |

| SEARS | Item                                                         | Required information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Section reference |
|-------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|       | Key issues and supporting documentation Table (p.3 of SEARS) | <b>16. Biodiversity</b><br>Unless a waiver has been granted, provide a Biodiversity Development Assessment Report (BDAR) that assesses any biodiversity impacts associated with the development in accordance with the Biodiversity Conservation Act 2016 and the Biodiversity Assessment Method 2020.<br><b>OR</b><br>If the development is on biodiversity certified land, provide information to identify the site (using associated mapping) and demonstrate the proposed development is consistent with the relevant biodiversity measure conferred by the biodiversity certification. | Whole document    |

### 1.1.1 Subject land

The Subject Land (**Figure 1-1**) is located at 88 Waterloo Road, Macquarie Park (formally known as 15-21 Cottonwood Crescent), approximately 11.7 kilometres (km) north-west of Sydney's Central Business District, in the Ryde City Local Government Area (LGA), NSW. The Subject Land consists of the area of land to be directly impacted by the Proposal and covers an area of approximately 0.52 ha over 4 lots (**Table 1-1**). It is bound by Waterloo Road to the north-east, Cottonwood Crescent to the south/south-east, Elouera Reserve to the north/north-west, and residential properties to the south-west.

It is noted that the Subject Land is adjacent to Elouera Reserve, which is associated with the Shrimpton's Creek riparian corridor and is classified as having Moderate Biodiversity Conservation Significance (ELA, 2016). The Subject Land is also located adjacent to the Macquarie Park Centre, and approximately 140 m south of Macquarie University. Currently, the land is zoned MU1: Mixed Use under the *Ryde Local Environmental Plan (LEP) 2014* and has been used historically for residential purposes.



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## 1.2 Biodiversity Offset Scheme entry

No areas of Biodiversity Values occur within, or in close proximity to, the Subject Land.

The minimum lot size prescribed by the Ryde Local Environmental Plan to the Subject Land is 1,500 m<sup>2</sup>. The BOS area clearing threshold applicable to the DA is therefore 0.25 ha. The Subject Land is largely hardstand, with only 0.14 ha of planted native vegetation present, therefore future development within the Subject Land will not trigger the BOS. Nonetheless, this BDAR has been prepared in accordance with a modified version of Stage 1 and 2 of the BAM to assess the impacts of future development on biodiversity.

## 1.3 Streamlined assessment module - Planted native vegetation

RPS investigated the applicability of Appendix D of the *Biodiversity Assessment Method 2020* (BAM, DPE 2020): Streamlined Assessment Module – Planted Native Vegetation to the Subject Land. An assessment of the Subject Land was undertaken on the 20<sup>th</sup> of September 2023 in order to collect the information required to support this decision-making key. As a result of the assessment, the vegetation of the Subject Land was identified as native vegetation, with strong evidence of planting (**Figure 1-2**) including:

- Trees of even age in furrow lines with uniform spacings (**Plate 1-1**)
- Placement within landscaping areas amongst hardstand (**Plate 1-2, Plate 1-3 & Figure 1-2**)
- Historical imagery displaying the Subject Land (and surrounding landscape) almost completely cleared of native vegetation between 1943 and 1955 (**Plate 1-4 & Plate 1-5**), and again in 1970 (**Plate 1-6**);
- In 1986 plantings were evident surrounding the apartment complex (**Plate 1-7**). Species present being commonly cultivated species for landscaping and/or screening, none of which conform to a native Plant Community Type (PCT) within the locality (**Appendix A**).

Therefore, the D1. Decision-making Key (BAM 2020) was applied, refer to **Table 1-2**. As a result of the Decision-making Key and with the available information, the planted native vegetation within the Subject Land was determined to easily fit into the D.1 Decision making key, as stated in the BAM (DPE 2020):

*The assessor must assess the suitability of the planted native vegetation for use by threatened species and record any incidental sightings or evidence (e.g., scats, stick nests) of threatened species credit species (flora and fauna) using, inhabiting or being part of the planted native vegetation. If there is evidence that threatened species are using the planted native vegetation as habitat, the assessor must apply Section 8.4 of the BAM to mitigate and manage impacts on these species. **Species credits are not required to offset the proposed impacts.** The steps taken to assess threatened species habitat and all reasonable measures proposed to be taken to mitigate or minimise impacts must be set out in the BAR.*



**Plate 1-1: Native trees planted in a furrow line within a defined garden, with even age and uniform spacing**



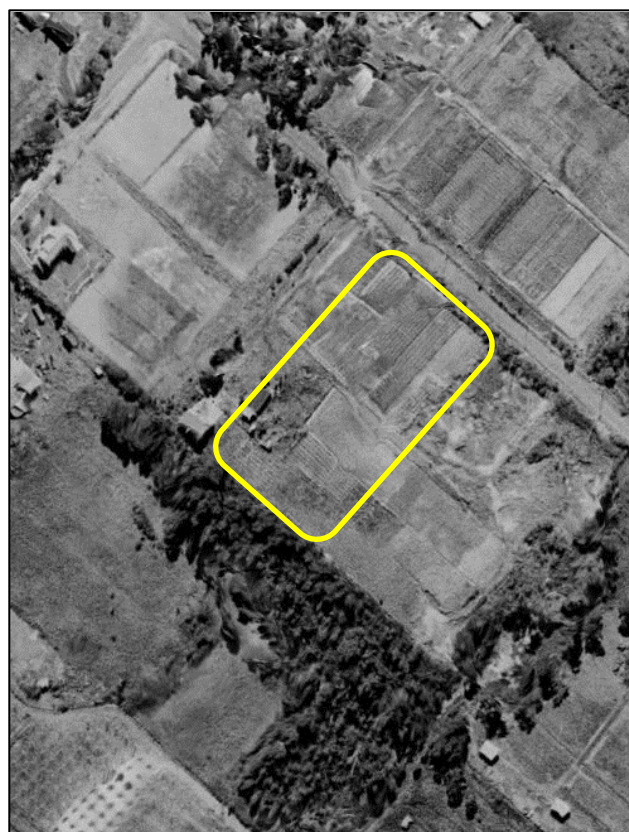
**Plate 1-2: Mix of native and exotic vegetation planted in a deliberate arrangement within a formalised garden surrounded by hardstand areas (example 1)**



**Plate 1-3: Mix of native and exotic vegetation planted in a deliberate arrangement within a formalised garden surrounded by hardstand areas (example 2)**



**Plate 1-4: 1943 aerial of the Subject Land (in yellow) – remnant native vegetation present in disturbed landscape**



**Plate 1-5: 1955 aerial of the Subject Land (in yellow) – almost completely cleared of native vegetation. Some remnants at road edge**



**Plate 1-6: 1970 aerial of the Subject Land (in yellow)**  
 – completely cleared of native vegetation



**Plate 1-7: 1986 aerial of the Subject Land (in yellow)**  
 - planting visible amongst apartments

**Table 1-2: D1. Decision-making Key (BAM 2020)**

| Question                                                                                                                                                                                                                                                                                                                                           | Discussion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Outcome                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 1. Does the planted native vegetation occur within an area that contains a mosaic of planted and remnant native vegetation and which can be reasonably assigned to a Plant Community Type (PCT) known to occur in the same Interim Biogeographic Regionalisation for Australia (IBRA) subregion as the Proposed Development?                       | <p>A combination of desktop and site assessments were used to inform whether the planted native vegetation occurs within an area that contains a mosaic of planted and remnant native vegetation. For this question, remnant vegetation was defined as native vegetation that has not been recently cleared and exists in a mature state with high ecological function.</p> <p>Desktop assessments involved the review of the Historical Imagery Viewer (NSW Spatial Services, 2025) of the area surrounding the Subject Land. The desktop assessment revealed that the Subject Land and the area surrounding was almost completely cleared of native vegetation sometime between 1943 and 1955 (<b>Plate 1-4 &amp; Plate 1-5</b>) and the Subject Land and area surrounding was still in a cleared state in 1970 (<b>Plate 1-6</b>). In 1986, plantings were evident amongst the apartment complex (<b>Plate 1-7</b>).</p> <p>The planted native vegetation is located in landscaping areas amongst hardstand and has been arranged in a deliberate and uniform manner. It comprises exotic, weed and native species listed in <b>Appendix B</b>. The composition of native species is not characteristic of the native PCT mapped as occurring within the Subject Land by the NSW Pre-clearing State Vegetation Type Map ((NSW DCCEEW, 2025d)), nor any other PCTs known to occur in the Cumberland IBRA Subregion of the Sydney Basin Bioregion.</p> <p>Furthermore, the nearest patch of remnant vegetation was identified as being approximately 850 m north-east of the Subject Land, within the Lane Cove National Park. As the remnant patch is located more than 100 m away, it is not considered the same patch as the vegetation of the Subject Land.</p> <p>Therefore, the Subject Land does not occur within an area that contains a mosaic of planted and remnant native vegetation.</p> | <p><b>No.</b><br/><b>Go to 2.</b></p> |
| <p>2. Is the planted native vegetation:</p> <p>a. Planted for the purpose of environmental rehabilitation or restoration under an existing conservation obligation listed in BAM Section 11.9(2.)</p> <p>b. The primary objective was to replace or regenerate a plant community type or a threatened plant species population or its habitat?</p> | <p>The native vegetation within the Subject Land was planted for landscaping purposes, visual amenity, shading and/or screening. These plantings were not undertaken for environmental rehabilitation or restoration under an existing conservation obligation listed in BAM Section 11.9(2.), nor were the plantings used to regenerate a PCT or threatened plant species population or its habitat. The species used do not form any recognised PCT that would occur within the surrounding region.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>No.</b><br/><b>Go to 3.</b></p> |
| <p>3. Is the planted or translocated native vegetation individuals of a threatened species or other native species planted or translocated for the purpose of providing threatened species habitat under one of the following:</p> <p>a. Species recovery project</p> <p>b. Saving our Species project</p>                                         | <p>The planted native vegetation within the Subject Land does not include any individuals of threatened species, nor are the plantings associated with any of the conservation projects listed to the left. The species are common landscaping tree species.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p><b>No.</b><br/><b>Go to 4.</b></p> |

| Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Discussion                                                                                                                                                                                                                                                                                                                                                                                     | Outcome                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>c. Other types of government funded restoration project</li> <li>d. Condition of consent for a development approval that required those species to be planted or translocated for the purpose of providing threatened species habitat</li> <li>e. Legal obligation as part of a condition or ruling of court</li> <li>f. Ecological rehabilitation to re-establish a PCT or TEC that was, or is carried out under a mine operations plan</li> <li>g. Approved vegetation management plan?</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                          |
| 4. Was the planted native vegetation (including individuals of a threatened flora species) undertaken voluntarily for revegetation, environmental rehabilitation or restoration without a legal obligation to secure or provide for management of the native vegetation?                                                                                                                                                                                                                                                                    | The primary purpose of the plantings was for landscaping purposes. The planted species are not consistent with a PCT from the locality. Therefore, the planted native vegetation within the Subject Land was not undertaken voluntarily for revegetation, environmental rehabilitation or restoration without a legal obligation to secure or provide for management of the native vegetation. | <b>No.</b><br><b>Go to 5.</b>                                                                                                                                                            |
| 5. Is the native vegetation (including individuals of a threatened flora species) planted for functional, aesthetic, horticultural or plantation forestry purposes?                                                                                                                                                                                                                                                                                                                                                                         | The planted native vegetation within the Subject Land was planted for the purposes of landscaping. The choice of species was likely chosen based on personal preference by the landowner, for the visual appeal or screening within the Subject Land.                                                                                                                                          | <b>Yes.</b><br><b>Go to D.2</b><br><b>Assessment of planted native vegetation for threatened species habitat (the use of Chapters 4 and 5 of the BAM are not required to be applied)</b> |



**Figure 1-2: Planted native vegetation**

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## 1.4 Information sources

Key information sources used in the BDAR include, but are not limited to:

- BAM (NSW DPIE 2020a)
- Areas of Outstanding Biodiversity Value register (NSW DCCEEW 2025a)
- BAM Calculator Version: 1.5 (NSW DCCEEW 2025b)
- Biodiversity Values Map and Threshold Tool (NSW DCCEEW 2025c)
- BioNet Atlas of NSW Wildlife (NSW DCCEEW 2025d)
- BioNet Threatened Biodiversity Profiles (NSW OEH 2025)
- BioNet Vegetation Classification (NSW DCCEEW 2025e)
- BioNet NSW (Mitchell) Landscapes – Version 3.1 (NPWS 2002)
- NSW Interim Biogeographic Regions of Australia (IBRA) – Version 7.1 (Cth DCCEEW 2025b)
- NSW State Vegetation Type Map (Pre-Clearing) (NSW DCCEEW 2024)
- Historical Aerial Imagery (NSW Spatial Services 2025)
- NSW State Vegetation Type Map (SVTM; DPE 2022c)
- EPBC Act Protected Matters Search Tool (Cth DCCEEW 2025a)
- *Flora and Fauna Assessment Report – 88 Waterloo Road, Macquarie Park NSW 2113* (RPS, 2024).

## 2 REGULATORY CONTEXT

The regulatory context that defines the assessment framework for the Proposal is outlined in **Table 2-1**, and further detailed below.

**Table 2-1: Relevant legislation, policy and guidelines**

| Legislation, Policy and Guidelines                                                                                   | Relevant features in Subject Land                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Application                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Commonwealth</b>                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                        |
| <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)                                      | <p>No EPBC Act listed Threatened Ecological Communities and no threatened flora or fauna species were recorded. However, given suitable foraging habitat may be impacted, the precautionary approach has been applied for the following fauna species listed under this Act:</p> <ul style="list-style-type: none"> <li>• Grey-headed Flying-fox (<i>Pteropus poliocephalus</i>) – Vulnerable.</li> </ul>                                                                                                                                                                                                                                                                                                                                  | Whilst Proposals are not considered an 'action' under the EPBC Act, consideration of MNES is prudent at the Proposal stage (refer to <b>Section 2.1.1</b> ).                                                                                                           |
| <b>State</b>                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                        |
| <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act)                                                     | All threatened species, populations and ecological communities and their habitats that occur or are likely to occur within the Subject Land during a part of their lifecycle.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | The Proposal must include the basis for strategic planning, having regard to environmental matters (s.3.4 of the EP&A Act). As such, the Proposal is supported by this BDAR.                                                                                           |
| <i>Biodiversity Conservation Act 2016</i> (BC Act)                                                                   | <p>No BC Act listed Threatened Ecological Communities occur within the Subject Land. No threatened flora species are present or considered likely to occur. No threatened fauna species were recorded; however potential habitat is present. As such, the precautionary approach has been applied for the following fauna species listed under this Act:</p> <ul style="list-style-type: none"> <li>• Little Lorikeet (<i>Glossopsitta pusilla</i>) – Vulnerable</li> <li>• Grey-headed Flying-fox (<i>Pteropus poliocephalus</i>) – Vulnerable</li> <li>• Yellow-bellied Sheath-tail-bat (<i>Saccolaimus flaviventris</i>) – Vulnerable</li> <li>• Large Bent-winged Bat (<i>Miniopterus orianae oceanensis</i>) – Vulnerable.</li> </ul> | Whilst Proposals are not considered a 'development' per Section 7 of the BC Act, consideration of future potential impacts has been completed. Relevance of the Biodiversity Offset Scheme (BOS) to future development is further detailed in <b>Section 2.2.2.1</b> . |
| <i>Water Management Act 2000</i> (WM Act)                                                                            | No watercourses or riparian buffers intersect with the Subject Land; therefore, this Act does not apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N/A                                                                                                                                                                                                                                                                    |
| <i>Fisheries Management Act 1994</i> (FM Act)                                                                        | No aquatic species or habitats occur within the Subject Land; therefore, this Act does not apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N/A                                                                                                                                                                                                                                                                    |
| <i>State Environmental Planning Policy (Biodiversity and Conservation) 2021</i> (Biodiversity and Conservation SEPP) | The Ryde LGA is not listed in Schedule 2 of the SEPP, therefore Chapter 3 & 4 Koala Habitat Protection do not apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/A                                                                                                                                                                                                                                                                    |
| <i>State Environmental Planning Policy (Coastal Resilience and Hazards) 2021</i>                                     | The Subject Land does not intersect with land mapped as Coastal Use Area, Coastal Environment Area, Littoral Rainforest, Coastal Wetlands or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A                                                                                                                                                                                                                                                                    |

## 2.1 Commonwealth

### 2.1.1 *Environmental Protection and Biodiversity Conservation Act 1999*

The EPBC Act provides a legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities and heritage places, defined in the Act as Matters of National Environmental Significance (MNES). MNES identified in the Act include:

1. World heritage properties
2. National heritage places
3. Wetlands of international importance (listed under the Ramsar Convention)
4. Threatened species and communities
5. Migratory species protected under international agreements
6. Commonwealth marine areas
7. The Great Barrier Reef Marine Park
8. Nuclear actions (including uranium mines)
9. Protection of water resources from coal seam gas development and large coal mining development.

MNES identified in the assessment are detailed in **Section 9.1.3**.

#### 2.1.1.1 Significant Impact Guidelines 1.1 – MNES

Under the EPBC Act, an action will require approval from the Environment Minister (the minister) if the action has, will have, or is likely to have, a significant impact on an MNES. The *Significant Impact Guidelines 1.1 – Matters of National Significance* (DEWHA 2013) outline a 'self-assessment' process, including detailed criteria, to assist persons in deciding whether or not referral to the minister is required for assessment and approval under the EPBC Act. MNES within the Subject Land will require detailed assessment under the Significant Impact Guidelines at the Development Application (DA) Stage.

## 2.2 State

### 2.2.1 *Environmental Planning and Assessment Act 1979*

The Section 1.7 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) provides a framework for the application of Part 7 of the *Biodiversity Conservation Act 2016* (BC Act) and part 7A of the *Fisheries Management Act 1994* (FM Act). The Proposal must include the basis for strategic planning in the district, having regard to environmental matters (s.3.4 of the EP&A Act). As such, the Proposal is supported by this BDAR.

#### 2.2.2 *Biodiversity Conservation Act 2016*

The main objective of the BC Act is to conserve listed threatened species and threatened ecological communities (TECs) within NSW. This objective would be delivered by conserving biological diversity, prevent the extinction of threatened species, promote the recovery of threatened or endangered species and reduce the pressures that threaten such species. The BC Act provides a framework to assessing the impacts of development on threatened species, populations, ecological communities and their habitats listed in Schedules 1 and 2 of the BC Act.

### 2.2.2.1 Biodiversity Offset Scheme

The BC Act introduces the Biodiversity Offsets Scheme (BOS) and BAM. Entry into the BOS would apply to a future DA if any of the following three impacts are triggered:

1. Exceeding the BOS threshold, comprised of clearing on land within the Biodiversity Values Map or clearing of an area that exceeds the threshold
2. Occurring on an Area of Outstanding Biodiversity Value (AOBV), AND/OR
3. Significantly impacting a threatened species, ecological community or their habitat (determined via the Assessment of Significance [5-part Test] under Section 7.3 of the BC Act).

The BOS is based on the 'avoid, minimise, offset' hierarchy. Using the hierarchy proponents must first consider whether the development can avoid a negative impact on the environment; next consider whether the development can minimise any negative impacts that cannot be avoided; and once all reasonable steps to avoid or minimise environmental impacts have been exhausted, consider whether any remaining impacts can be offset. Avoidance measures completed as part of this Proposal are detailed in **Section 8**.

### 2.2.2.2 Exceeding the BOS Threshold

The BOS threshold may be triggered by the clearing or modification of native vegetation on land mapped under the Biodiversity Values (BV) Map (NSW DCCEEW 2025c). Clause 7.3(3) of the *Biodiversity Conservation Regulation 2017* describes 11 types of land that may be included on the BV Map. No BV mapping occurs within or near the Subject Land.

The BOS threshold can also be triggered by the clearing or modification of native vegetation that exceeds area threshold values. Thresholds depend on the minimum lot size (designated under the relevant Local Environmental Plan [LEP]) or actual lot size when there is no minimum lot size prescribed to the land by the LEP. The area clearing threshold is displayed in **Table 2-2**.

The area threshold applies to all proposed native vegetation clearing associated with a Proposal, regardless of whether this clearing is across multiple lots. In the case of a subdivision, the proposed clearing must include all future clearing likely to be required for the intended use of the land after it is subdivided. If the land on which the proposed development is located has different minimum lot sizes, the smaller or smallest of those minimum lot sizes is used to determine the area clearing threshold. If approved, the Proposal may result in amended minimum lot sizes associated with the Subject Land.

**Table 2-2: BOS area clearing threshold**

| Minimum lot size associated with the Property | Threshold for clearing, above which the BOS applies |
|-----------------------------------------------|-----------------------------------------------------|
| Less than 1 ha                                | 0.25 ha or more                                     |
| 1 ha to less than 40 ha                       | 0.5 ha or more                                      |
| 40 ha to less than 1,000 ha                   | 1 ha or more                                        |
| 1,000 ha or more                              | 2 ha or more                                        |

A future DA within the Subject Land would not exceed the BOS threshold for the following reasons:

- The Subject Land does not intersect with land mapped as BV
- Any future DA would involve the clearing of up to 0.14 ha of Urban Native/Exotic Vegetation comprised of a mix of exotic landscaped species and historically planted native species. This is less than the minimum clearing threshold of 0.25 ha.

As such, impacts associated with a future DA would be assessed in a standard FFA to determine the potential impacts of the development (refer to **Section 2.2.2.4**).

### 2.2.2.3 Area of Outstanding Biodiversity Value

Areas of Outstanding Biodiversity Value (AOBV), previously identified as Critical Habitat, are special areas with irreplaceable biodiversity values that are important to New South Wales, Australia, or globally. Developments occurring on AOBVs are an automatic trigger for the BOS. There are only four declared AOBV, none of which are within the Subject Land or surrounds, therefore this trigger does not apply.

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#### 2.2.2.4 Significant Impact

Significantly impacting a threatened species, ecological community or their habitat is an additional trigger for the BOS. Significant impacts are considered in an FFA through an Assessment of Significance (5-part Test) per Section 7.3 of the BC Act. If an FFA identifies that a future DA is likely to yield a significant impact, the BOS is triggered, and the development will require a supporting BDAR and associated retirement of offset credits.

### 2.3 Local

#### 2.3.1 Ryde Local Environment Plan 2014

##### 2.3.1.1 Zoning

The Subject Land is zoned 'MU1 Mixed Use'. The objectives of this zone are:

- To encourage a diversity of business, retail, office and light industrial land uses that generate employment opportunities
- To ensure that new development provides diverse and active street frontages to attract pedestrian traffic and to contribute to vibrant, diverse and functional streets and public spaces
- To minimise conflict between land uses within this zone and land uses within adjoining zones
- To encourage business, retail, community and other non-residential land uses on the ground floor of buildings
- To ensure employment and educational activities within the Macquarie University campus are integrated with other businesses and activities
- To promote strong links between Macquarie University and research institutions and businesses in the Macquarie Park corridor

The proposed mixed-use residential and retail/commercial lots is consistent with these objectives.

#### 2.3.2 Ryde Development Control Plan 2014

##### 2.3.2.1 Section 5.8 – Street Trees, Front Setback Tree Planting, and Significant Trees

This section applies to trees located within the 'front setback zone' of the Subject Land. The front setback area is defined as the distance between the front elevation of the building other than a veranda, and the property boundary, which fronts the street (RCC 2014).

Reference to p.38 of the Ryde Development Control Plan (DCP), the Proposal is compliant with the below controls applicable to tree removal and pruning:

c) *Where:*

- *new floor space or parking areas are proposed and*
- *a site is shown part coloured on the Sydney Metropolitan Catchment Vegetation Mapping 2013 (unless identified as containing "Weeds and Exotics" only)*
- *removal of native vegetation species is proposed*

*Submit a Flora and Fauna Assessment prepared by a suitably qualified ecological consultant with the DA that has regard to:*

- *Part 9.5 Tree Preservation of the RDCP 2014*

- *Threatened Species Conservation Act 1995 (TSC Act)* <sup>1</sup>
- *Sydney Metropolitan Vegetation Mapping, 2013* <sup>2</sup>

As such, any future DA would need to satisfy the requirements under s.5.8 of the RDCP.

### 2.3.3 Other

#### 2.3.3.1 RCC's Local Strategic Planning Statement 2020

With reference to Table 31 (p.160) of the RCC's *Local Strategic Planning Statement (LSPS) 2020*, the following is applicable:

- *E1.1 Manage and protect the conservation significance of native vegetation, urban waterways, biodiversity corridors and urban habitats by implementing Ryde Biodiversity Plan 2016*
- *E1.4 - Review environmentally sensitive land across the LGA including E1, E2 and E3 Environmental Conservation Zones, including to protect the Shrimptons Creek corridor and threatened species along Epping Road*
- *E2.1 Continue to implement the current City of Ryde Street Tree Masterplan and Tree Management Policy and Plan* <sup>3</sup>

As per above, the Proposal is consistent with the LSPS 2020 and is unlikely to have a significant impact on the Local Shrimpton Connectivity Corridor. Additionally, refer below for the details regarding the RCC's Biodiversity Plan (**Section 2.3.3.2**) and Urban Forest Strategy (**Section 2.3.3.3**).

#### 2.3.3.2 Biodiversity Plan 2016

Reference to Target 5.6 (p.47) of the RCC's Biodiversity Plan 2016, the Proposal considers biodiversity impacts during the preliminary stages of development and is considered 'sympathetic to biodiversity and neighbouring bushland' (see **Section 8** and **Section 9**). Additionally, the **Section 9.2** addresses the indirect impact of shadowing on the Shrimpton Creek local connectivity corridor. Should revegetation be undertaken in the Shrimpton Connectivity Corridor, it would support improved connectivity between local corridors and regional corridors across Ryde and provide enhanced habitat for native flora and fauna and therefore aligns with Section 5.5.4 (p.20) of the RCC's Biodiversity Plan.

#### 2.3.3.3 Urban Forest Strategy 2023

The Urban Forest Strategy 2023<sup>4</sup> aligns with the Proposal (RCC, 2023). **Section 9.4** of this BDAR details the revegetation recommendations with historical PCT types and species selection with reference to Part 4: Best Practice Planting And Management Guidelines of the Urban Forest Strategy.

<sup>1</sup> The TSC Act was repealed in 2016 and is superseded by the *Biodiversity Conservation Act 2016*.

<sup>2</sup> The Sydney Metropolitan Vegetation Mapping was repealed and is superseded by the NSW State Vegetation Type Map (SVTM; DPE 2023)

<sup>3</sup> The Urban Forest Strategy 2023 supersedes the Tree Management Plan 2013 and the Street Tree Masterplan 2013

<sup>4</sup> The Urban Forest Strategy 2023 supersedes the Tree Management Plan 2013 and the Street Tree Masterplan 2013.

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## 3 METHODS

A desktop assessment and field survey were undertaken to characterise the biodiversity values of the Subject Land. Desktop assessments focused on determining the likely presence of State (BC Act) and Commonwealth (EPBC Act) listed threatened species, populations and ecological communities within the Subject Land.

### 3.1 Site context methods

#### 3.1.1 Databases

Information relevant to the Proposal was reviewed to gain an understanding of the biodiversity values occurring or potentially occurring within the Subject Land. Information sources reviewed for a 10 km radius of the Subject Land (i.e., locality) included:

- Biodiversity Assessment Method (BAM) Calculator candidate species output (NSW DCCEEW, 2025b)
- Flora and fauna records contained in the Biodiversity and Conservation Division (BCD) BioNet Atlas of NSW Wildlife database (NSW DCCEEW, 2025d)
- Flora and fauna records contained in the Commonwealth Protected Matters Search Tool (Cth DCCEEW, 2025a)

#### 3.1.2 Spatial datasets

The following spatial resources/datasets were interrogated to evaluate landscape condition of the Subject Land:

- Historical Imagery (NSW Spatial Services, 2025)
- eSPADE, NSW Soil and Land Information (NSW DPIE, 2025)
- BioNet Vegetation Classification (NSW DCCEEW 2025e)
- NSW State Vegetation Type Map, version C2.0.M2.1, November 2024 (NSW DCCEEW, 2024)
- BioNet NSW (Mitchell) Landscapes – Version 3.1 (NSW DCCEEW, 2016)
- NSW Interim Biogeographic Regions of Australia (IBRA) – Version 7.1 (Cth DCCEEW, 2025b)

### 3.2 Field survey

A site assessment of the Subject Land was conducted on the 20<sup>th</sup> of September 2023 to identify biodiversity values and ground truth desktop research in accordance with the BAM (DPE 2020a). No targeted threatened flora or fauna surveys were conducted as part of this assessment.

### 3.3 Native vegetation, threatened ecological communities and vegetation integrity methods

In accordance with Appendix D.1 Q5.i of the BAM, this streamlined assessment does not require the vegetation within the Subject Land to be assigned to a PCT, Threatened Ecological Community or for vegetation integrity to be assessed.

### 3.4 Threatened flora

#### 3.4.1 Review of existing information

The BAM Calculator (BAM-C; [NSW DCCEEW, 2025b]) was run using benchmark data from the pre-clearing PCT mapped within the Subject Land (NSW DCCEEW, 2025d). The resulting pre-clearing vegetation was determined to be PCT 3592: Sydney Coastal Enriched Sandstone Forest and PCT 3176: Sydney Enriched

Sandstone Moist Forest which were used to create a list of species credit flora species (**Table 3-1** and **Table 3-2**) for consideration as part of this assessment. No ecosystem credit flora species were derived from this process.

Threatened flora species credit species derived from the BAM-C for PCT 3592 and PCT 3176 (pre-clearing PCT mapped within the Subject Land; [NSW DCCEEW, 2025d]) are listed in **Table 3-1**.

**Table 3-1: Threatened flora species credit species derived from the BAM-C**

| Scientific name                                       | Common name                                  | BC Act listing | EPBC Act listing |
|-------------------------------------------------------|----------------------------------------------|----------------|------------------|
| <i>Acacia prominens</i>                               | Gosford Wattle                               | EP             | -                |
| <i>Acacia pubescens</i>                               | Downy Wattle                                 | V              | V                |
| <i>Acacia terminalis</i> subsp. <i>Eastern Sydney</i> | Sunshine wattle                              | E              | E                |
| <i>Callistemon linearifolius</i>                      | Netted Bottle Brush                          | V              | -                |
| <i>Darwinia biflora</i>                               |                                              | V              | V                |
| <i>Deyeuxia appressa</i>                              |                                              | E              | E                |
| <i>Diuris bracteata</i>                               |                                              | E              | X                |
| <i>Epacris purpurascens</i> var. <i>purpurascens</i>  |                                              | V              | -                |
| <i>Eucalyptus camfieldii</i>                          | Camfield's Stringybark                       | V              | V                |
| <i>Genoplesium baueri</i>                             | Bauer's Midge Orchid                         | E              | E                |
| <i>Grevillea parviflora</i> subsp. <i>supplicans</i>  |                                              | E              | -                |
| <i>Haloragodendron lucasii</i>                        |                                              | E              | E                |
| <i>Hibbertia puberula</i>                             |                                              | E              | -                |
| <i>Hibbertia spanantha</i>                            | Julian's Hibbertia                           | CE             | CE               |
| <i>Hibbertia superans</i>                             |                                              | E              | -                |
| <i>Kunzea rupestris</i>                               | Kunzea rupestris                             | V              | V                |
| <i>Lasiopetalum joyceae</i>                           |                                              | V              | V                |
| <i>Leptospermum deanei</i>                            |                                              | V              | V                |
| <i>Melaleuca deanei</i>                               | Deane's Paperbark                            | V              | V                |
| <i>Micromyrtus blakelyi</i>                           |                                              | V              | V                |
| <i>Persoonia hirsuta</i>                              | Hairy Geebung                                | E              | E                |
| <i>Persoonia mollis</i> subsp. <i>maxima</i>          | <i>Persoonia mollis</i> subsp. <i>maxima</i> | E              | E                |
| <i>Pimelea curviflora</i> var. <i>curviflora</i>      |                                              | V              | V                |
| <i>Prostanthera askania</i>                           | Tranquillity Mintbush                        | E              | E                |
| <i>Prostanthera marifolia</i>                         | Seaforth Mintbush                            | CE             | CE               |
| <i>Rhizanthella slateri</i>                           | Eastern Australian Underground Orchid        | V              | E                |
| <i>Rhodamnia rubescens</i>                            | Scrub Turpentine                             | CE             | CE               |
| <i>Tetradlea glandulosa</i>                           | <i>Tetradlea glandulosa</i>                  | V              | -                |
| <i>Wahlenbergia multicaulis</i>                       | Tadgell's Bluebell                           | EP             | -                |
| <i>Zieria involucreta</i>                             |                                              | E              | V                |

V = Vulnerable; EP = Endangered Population; E = Endangered; CE = Critically Endangered; X = Extinct

### 3.4.2 Habitat constraints assessment

Habitat constraints were identified during the field reconnaissance to confirm the extent and condition of landscape features and mapping of native vegetation extent (**Section 1.3**). Habitat such as non-native vegetation was deemed unsuitable for some threatened species.

## 3.5 Threatened fauna

### 3.5.1 Review of existing information

The BAM Calculator (BAM-C; [NSW DCCEEW, 2025b]) was run using benchmark data from the pre-clearing PCT mapped within the Subject Land (NSW DCCEEW, 2025d). The resulting pre-clearing vegetation was determined to be PCT 3592: Sydney Coastal Enriched Sandstone Forest and PCT 3176: Sydney Enriched Sandstone Moist Forest which were used to create a list of ecosystem and species credit fauna species (Table 3-2) for consideration as part of this assessment.

Ecosystem, species credit and dual listed (ecosystem and species credit) threatened fauna derived from the BAM-C for PCT 3592 and PCT 3176 (pre-clearing PCT mapped within the Subject Land; NSW DCCEEW 2025e) are listed in Table 3-2.

**Table 3-2: Ecosystem, species and dual credit threatened fauna species derived from the BAM-C**

| Scientific name                        | Common name                                   | BC Act listing | EPBC Act listing | Credit type |
|----------------------------------------|-----------------------------------------------|----------------|------------------|-------------|
| <b>Amphibians</b>                      |                                               |                |                  |             |
| <i>Heleioporus australiacus</i>        | Giant Burrowing Frog                          | V              | V                | Species     |
| <i>Litoria aurea</i>                   | Green and Golden Bell Frog                    | E              | V                | Species     |
| <i>Mixophyes iteratus</i>              | Giant Barred Frog                             | V              | V                | Species     |
| <i>Pseudophryne australis</i>          | Red-crowned Toadlet                           | V              | -                | Species     |
| <b>Aves</b>                            |                                               |                |                  |             |
| <i>Artamus cyanopterus cyanopterus</i> | Dusky Woodswallow                             | V              | -                | Ecosystem   |
| <i>Burhinus grallarius</i>             | Bush Stone-curlew                             | E              | -                | Species     |
| <i>Callocephalon fimbriatum</i>        | Gang-gang Cockatoo                            | E              | E                | Dual        |
| <i>Calyptorhynchus lathami lathami</i> | South-eastern Glossy Black-Cockatoo           | V              | V                | Dual        |
| <i>Climacteris picumnus victoriae</i>  | Brown Treecreeper (eastern subspecies)        | V              | V                | Ecosystem   |
| <i>Daphoenositta chrysoptera</i>       | Varied Sittella                               | V              | -                | Ecosystem   |
| <i>Glossopsitta pusilla</i>            | Little Lorikeet                               | V              | -                | Ecosystem   |
| <i>Haliaeetus leucogaster</i>          | White-bellied Sea-Eagle                       | V              | -                | Dual        |
| <i>Hieraaetus morphnoides</i>          | Little Eagle                                  | V              | -                | Dual        |
| <i>Hirundapus caudacutus</i>           | White-throated Needletail                     | V              | V                | Ecosystem   |
| <i>Ixobrychus flavicollis</i>          | Black Bittern                                 | V              | -                | Ecosystem   |
| <i>Lathamus discolor</i>               | Swift Parrot                                  | E              | CE               | Dual        |
| <i>Lophoictinia isura</i>              | Square-tailed Kite                            | V              | -                | Dual        |
| <i>Melithreptus gularis gularis</i>    | Black-chinned Honeyeater (eastern subspecies) | V              | -                | Ecosystem   |
| <i>Neophema pulchella</i>              | Turquoise Parrot                              | V              | -                | Ecosystem   |
| <i>Nettapus coromandelianus</i>        | Cotton Pygmy-Goose                            | E              | -                | Species     |
| <i>Ninox connivens</i>                 | Barking Owl                                   | V              | -                | Species     |
| <i>Ninox strenua</i>                   | Powerful Owl                                  | V              | -                | Species     |
| <i>Pandion cristatus</i>               | Eastern Osprey                                | V              | -                | Dual        |
| <i>Petroica boodang</i>                | Scarlet Robin                                 | V              | -                | Ecosystem   |
| <i>Petroica phoenicea</i>              | Flame Robin                                   | V              | -                | Ecosystem   |
| <i>Pezoporus wallicus wallicus</i>     | Eastern Ground Parrot                         | V              | -                | Species     |
| <i>Tyto novaehollandiae</i>            | Masked Owl                                    | V              | -                | Species     |
| <b>Mammals</b>                         |                                               |                |                  |             |
| <i>Cercartetus nanus</i>               | Eastern Pygmy-possum                          | V              | -                | Species     |

| Scientific name                       | Common name                                                        | BC Act listing | EPBC Act listing | Credit type |
|---------------------------------------|--------------------------------------------------------------------|----------------|------------------|-------------|
| <i>Chalinolobus dwyeri</i>            | Large-eared Pied Bat                                               | E              | E                | Species     |
| <i>Dasyurus maculatus</i>             | Spotted-tailed Quoll                                               | V              | E                | Ecosystem   |
| <i>Falsistrellus tasmaniensis</i>     | Eastern False Pipistrelle                                          | V              | -                | Ecosystem   |
| <i>Isodon obesulus obesulus</i>       | Southern Brown Bandicoot (eastern)                                 | E              | E                | Species     |
| <i>Micronomus norfolkensis</i>        | Eastern Coastal Free-tailed Bat                                    | V              | -                | Ecosystem   |
| <i>Miniopterus australis</i>          | Little Bent-winged Bat                                             | V              | -                | Dual        |
| <i>Miniopterus orianae oceanensis</i> | Large Bent-winged Bat                                              | V              | -                | Dual        |
| <i>Myotis macropus</i>                | Southern Myotis                                                    | V              | -                | Species     |
| <i>Notamacropus parma</i>             | Parma Wallaby                                                      | V              | V                | Species     |
| <i>Perameles nasuta</i>               | Long-nosed Bandicoot population in inner western Sydney            | EP             | -                | Species     |
| <i>Perameles nasuta</i>               | Long-nosed Bandicoot, North Head                                   |                |                  | Species     |
| <i>Petauroides volans</i>             | Southern Greater Glider                                            | EP             | -                | Species     |
| <i>Petaurus australis</i>             | Yellow-bellied Glider                                              | V              | V                | Ecosystem   |
| <i>Petaurus norfolcensis</i>          | Squirrel Glider                                                    | V              | -                | Species     |
| <i>Petaurus norfolcensis</i>          | Squirrel Glider on Barrenjoey Peninsula, north of Bushrangers Hill | EP             | -                | Species     |
| <i>Phascolarctos cinereus</i>         | Koala                                                              | E              | E                | Species     |
| <i>Phoniscus papuensis</i>            | Golden-tipped Bat                                                  | V              | -                | Ecosystem   |
| <i>Pteropus poliocephalus</i>         | Grey-headed Flying-fox                                             | V              | V                | Dual        |
| <i>Saccolaimus flaviventris</i>       | Yellow-bellied Sheath-tail-bat                                     | V              | -                | Ecosystem   |
| <i>Scoteanax rueppellii</i>           | Greater Broad-nosed Bat                                            | V              | -                | Ecosystem   |
| <b>Molluscs</b>                       |                                                                    |                |                  |             |
| <i>Meridolum maryae</i>               | Maroubra Woodland Snail                                            | E              | E                | Species     |
| <i>Pommerhelix duralensis</i>         | Dural Land Snail                                                   | E              | E                | Species     |
| <b>Reptiles</b>                       |                                                                    |                |                  |             |
| <i>Hoplocephalus bungaroides</i>      | Broad-headed Snake                                                 | E              | E                | Dual        |
| <i>Varanus rosenbergi</i>             | Rosenburg's Goanna                                                 | V              | -                | Ecosystem   |

V = Vulnerable, EP = Endangered Population; E = Endangered, CE = Critically Endangered

## 3.5.2 Habitat constraints assessment

### 3.5.2.1 General

The nature and extent of fauna habitats within the Subject Land, greater Subject Property and surrounding area was systematically assessed through a parallel transect survey. Site assessments for threatened and native fauna included consideration of important indicators of habitat condition and complexity, including the occurrence of microhabitats such as tree hollows, fallen logs, bushrock, caves and crevices, manmade structures, riparian areas, wetlands and water bodies. Indirect indicators of fauna use of the site, such as droppings, diggings, footprints, scratches, nests, burrow paths and runways, were recorded.

### 3.5.2.2 Non-specific surveys

Opportunistic sightings obtained from active searches used secondary indications (scratches, scats, diggings, tracks etc.) and direct observation to census resident fauna. Observations recorded included:

- Distinctive scats left by mammals
- Scratch marks made by various types of arboreal animals

- Nests made by various birds
- Feeding scars on Eucalyptus trees made by Gliders
- Whitewash, regurgitation pellets and prey remains from Owls
- Aural recognition of bird and frog calls
- Skeletal material of vertebrate fauna
- Searches beneath rocks and logs for reptiles and frogs
- Chewed *Allocasuarina* cones – indicative of foraging Glossy Black-cockatoo (*Calyptorhynchus lathami*).

### 3.5.3 Field survey

A diurnal site investigation was undertaken on the 20<sup>th</sup> of September 2023 where an assessment of habitat constraints and microhabitats (e.g. tree hollows, fallen logs, bush rock, caves, and crevices, humanmade structures, riparian areas, wetlands, and water bodies) were undertaken. Targeted surveys for threatened fauna were also undertaken for all species listed in **Table 3-2** with the potential for diurnal occurrence at the time of survey (September), utilising a random meander survey technique.

## 3.6 Weather conditions

Flora and fauna survey efforts performed as part of this investigation are summarised in **Table 3-3**. The nearest weather station to the Subject Land providing sufficient rainfall data (Gordon Golf Club, station #66120) recorded 19.5 mm of rain in the month of September 2023, moderately lower than mean rainfall records for the station (67.2 mm; BOM 2025a). Temperatures at the nearest station providing sufficient temperature data (Sydney Olympic Park AWS (Archery Centre), station #66212) leading up to the survey were average for this time of year (BOM 2025b). Weather conditions in the lead up to the site assessment were largely supportive for the emergence of threatened flora and fauna species.

**Table 3-3: Survey timing and weather conditions (BOM 2025). Bold indicates survey dates**

| Survey undertaken (e.g., method / targeted species) | Date              | Temperature minimum (°C) | Temperature maximum (°C) | Rainfall (mm) |
|-----------------------------------------------------|-------------------|--------------------------|--------------------------|---------------|
| 1-week lead up                                      | 14/09/2023        | 8.2                      | 26.6                     | 0             |
|                                                     | 15/09/2023        | 9                        | 28.3                     | 0             |
|                                                     | 16/09/2023        | 9.9                      | 33.5                     | 0             |
|                                                     | 17/09/2023        | 11.2                     | 33.1                     | 0             |
|                                                     | 18/09/2023        | 11.2                     | 35.7                     | 0             |
|                                                     | 19/09/2023        | 11.5                     | 34.3                     | 0             |
| <b>Opportunistic surveys</b>                        | <b>20/09/2023</b> | <b>16.6</b>              | <b>33.9</b>              | <b>0</b>      |

## 3.7 Limitations

### 3.7.1 Seasonality

Some cryptic flora species that occur in the local area are annuals and are only present in the seed bank for much of the year. Other plant species are perennial but are inconspicuous or difficult to identify unless flowering.

Similarly, some fauna species that have been recorded in the local area occur on a seasonal or migratory basis, may be absent from the locality for much of the year. Fauna behaviours may have also affected detectability; species that are easily disturbed, cryptic or nocturnal may not have been detected. It is possible that several flora and fauna species occurring in the Subject Land were not detected during the current survey due to the above factors.

These potential limitations have been addressed by literature research and review, and through identification of potential habitats for flora and fauna species and assessment of the potential for targeted species to occur on in the Subject Land based on:

- 
- Previous records
  - The type and condition of habitats present
  - The land use throughout the flora plot and surrounds and
  - The landscape context.

The precautionary principle (assumed presence) was applied where habitat was identified, or species were predicted to utilise habitat components at some stage during their life cycle.

### **3.7.2 Data availability and accuracy**

The collated threatened flora and fauna species records obtained from the BioNet Database for the region are known to vary in accuracy and reliability. Traditionally, this is due to the reliability of information provided to BCD for collation and/or the need to protect specific threatened species locations. For the purposes of this BDAR, this information has been considered to have an accuracy of  $\pm 1$  km, however for some threatened species, records may be denatured by up to 2 km.

Threatened flora and fauna records within the region were predominantly sourced from the BioNet database and an EPBC Protected Matters Search. Similar limitations are known to exist with regards to these data sources and their accuracy. Data recorded by RPS during the survey period has been gathered using Garmin 64s handheld GPS units, these devices generally provide sub-four metre accuracy.

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## 4 LANDSCAPE CONTEXT

### 4.1 Assessment area

The Assessment Area is the area of land within a 1,500 m buffer zone surrounding the Subject Land. The Assessment Area spans approximately 752.2 ha and is displayed in **Figure 4-1**.

### 4.2 Landscape features

#### 4.2.1 IBRA bioregion and subregion

The Subject Land is located within the Pittwater IBRA Subregion of the Sydney Basin Bioregion, with the Assessment Area further intersecting with the Cumberland IBRA Subregion (Cth DCCEEW, 2025b) (**Figure 4-1**).

#### 4.2.2 NSW (Mitchell) Landscape

The Subject Land intersects with one Mitchell Landscape unit, Pennant Hills Ridges (NSW DCCEEW, 2016) (**Figure 4-1**). The Assessment Area further intersects with one other Mitchell Landscape Unit, Port Jackson Basin (NSW DCCEEW, 2016). These Mitchell Landscape units are generally described as follows:

##### **Pennant Hills Ridges** (NPWS, 2002)

*Rolling to moderately steep hills on horizontal Triassic shales and siltstones. General elevation 10 to 90 m, local relief 60 m. Deep red texture-contrast soils on narrow hillcrests, red and brown to yellow texture-contrast soils on slopes becoming slightly harsher in drainage lines.*

*Tall open forest of Sydney Blue Gum (Eucalyptus saligna), Turpentine (Syncarpia glomulifera), Blackbutt (Eucalyptus pilularis), White Stringybark (Eucalyptus globoidea), Grey Ironbark (Eucalyptus paniculata), Forest Oak (Allocasuarina torulosa) and Rough-barked Apple (Angophora floribunda). Rainforest elements in protected moist gully heads with Sweet Pittosporum (Pittosporum undulatum), Cheese Tree (Glochidion ferdinandi), Sandpaper Fig (Ficus coronata) and Black Wattle (Callicoma serratifolia).*

##### **Port Jackson Basin** (NPWS, 2002)

*Deep elongated harbour with steep cliffed margins on horizontal Triassic quartz sandstone. Small pocket beaches and more extensive Quaternary estuary fill of muddy sand at the head of most tributary streams. General elevation 0 to 80m, local relief 10 to 50m. Sandstone slopes and cliffs have patches of uniform or gradational sandy soil on narrow benches and within joint crevices that support forest and woodland of Sydney Peppermint (Eucalyptus piperita), Smooth-barked Apple (Angophora costata), red bloodwood (Corymbia gummifera) and blackbutt (Eucalyptus pilularis). Sheltered gullies contain some Turpentine (Syncarpia glomulifera), Coachwood (Ceratopetalum apetalum) and Water gum (Tristanopsis laurina). Estuarine sands were originally dominated by saltmarsh but have been taken over by Grey Mangrove (Avicennia marina) in the past century.*

#### 4.2.3 Soil landscapes

The Subject Land occurs on two soil landscapes, Lucas Heights (residual) and Disturbed Terrain (NSW DPIE, 2025). The wider Assessment Area also includes Glenorie (erosional), Gynea (erosional) and Hawksbury (colluvial) soil landscapes (**Figure 4-2**) (NSW DPIE, 2025). These soil landscapes are generally described as follows:

##### **Disturbed Terrain - 9130xx** (Chapman and Murphy, 1989)

*The Disturbed terrain consists of Artificial fill. Commonly dredged estuarine sand and mud, demolition rubble, industrial and household waste, and includes rocks and local soil materials. The limitations of this soil landscape type are dependent on nature of fill material, and may include mass movement hazard, unconsolidated low wet strength materials, impermeable soil, poor drainage, localised very low fertility and toxic materials. Vegetation of the Disturbed Terrain has been completely cleared, and are often landscaped and artificially drained*

##### **Lucas Heights (residual) - 9130lh** (Chapman and Murphy, 1989)

The geology of the Lucas Heights soil landscape consists of Mittagong Formation, consisting of interbedded shale, laminite and fine to medium grained quartz sandstone, and is located stratigraphically between the Ashfield Shale and Hawkesbury Sandstone (Chapman and Murphy 1989). It is often relatively shallow. Minor areas of Hawkesbury Sandstone and minor areas of Ashfield Shale may occur.

Soils consist of moderately deep (50–150 cm), hardsetting Yellow Podzolic Soils and Yellow Soloths, Yellow Earths on outer edges. Limitations include stony soil, low soil fertility, low available water capacity. The soil landscape type vegetation consists of extensively cleared to completely cleared low, eucalypt open-forest and low eucalypt woodland with a sclerophyll shrub understorey

#### **Gymea (erosional) - 9130gy** (Chapman and Murphy, 1989)

Undulating to rolling and low hills with a local relief of 20–80m, slopes 10–25% and rock outcrops <25% underlain by Hawkesbury Sandstone. Geology comprised of medium to coarse-grained quartz sandstone with minor shale and laminite lenses. This landscape occurs extensively throughout the Hornsby Plateau and along the foreshores of Sydney Harbour, the Parramatta River and the Georges River.

Sandy soils which are moderately deep (<20–100 cm) are common throughout with localised Gleyed Podzolic Soils and Yellow Podzolic Soils on shale lenses. Limitations include localised steep slopes, high soil erosion hazard, rock outcrop, shallow highly permeable soil and very low soil fertility. The soil landscape vegetation originally consisted of dry sclerophyll woodland and open-forest, which has now been extensively cleared.

#### **Glenorie (erosional) - 9130gn** (Chapman and Murphy, 1989)

Undulating to rolling low hills with narrow ridges, hillcrests and valleys with a local relief of 50–80 m and slopes 5–20% underlain by Wianamatta Group shales. Geology inclusive of the Ashfield Shale formation, which is comprised of laminite and dark grey shale, and the Bringelly Shale formation, which consists of shale, calcareous claystone, laminate and fine to medium grained lithic-quartz sandstone. This soil landscape occurs north of the Parramatta River on the Hornsby Plateau in Baulkham Hills, Hornsby, Ku-ring-gai, and Ryde local government areas. Smaller isolated areas are at Condell Park, Hurstville, and on the Cumberland Lowlands at Rosehill.

Soils consist of shallow to moderately deep (<100 cm) Red Podzolic Soils on crests; moderately deep (70–150 cm) Red and Brown Podzolic Soils on upper slopes; deep (>200 cm) Yellow Podzolic Soils and Gleyed Podzolic Soils along drainage lines. Limitations include high soil erosion hazard, localised impermeable highly plastic soil, moderately reactive. The soil landscape vegetation originally consisted of tall open-forest (wet sclerophyll forests), which have now been extensively cleared.

#### **Hawkesbury (colluvial) – 9130ha**

Rugged, rolling to very steep hills on Hawkesbury Sandstone. Geology comprised of medium to coarse-grained quartz sandstone with minor shale and laminite lenses. This landscape occurs on slopes and ridges of the Macdonald Ranges, Hornsby Plateau and Hawkesbury Valleys with other examples occurring in Muogamarra Nature Reserve, Brisbane Water National Park and Ku-ring-gai Chase National Park. Within the metropolitan area, examples are found adjacent to Port Jackson, Georges River, Cowan Creek, Deep Creek and the upper reaches of the Lane Cove River.

Soils are shallow (>50 cm) and consist of discontinuous Lithosols/Siliceous Sands, Earthy Sands, Yellow Earths and some localised Yellow and Red Podzolic Soils. Limitations include extreme soil erosion hazards, steep slopes, rock outcrops, shallow, stony, highly permeable soils with low soil fertility. Vegetation is mostly uncleared open-woodland (dry sclerophyll) with pockets of tall open-forest (wet sclerophyll) and closed-forest (rainforest).

### **4.2.4 Karst, caves, crevices, cliffs, rocks and other geological features of significance**

The Assessment Area has varying topography reaching a peak of approximately 90 m above sea level (asl) in the highly urbanised southwest region of the Assessment Area, decreasing to approximately 7 m asl at the banks of the Lane Cove River in the north-east region within the Lane Cove National Park (Google LLC, 2025).

The portion of the Lane Cove National Park (approximately 800 m from the Subject Land) that is covered by the Assessment Area is characterised by the Port Jackson Basin Mitchell Landscape (**Section 4.2.2**) and the Gymea (erosional) soil landscape (**Section 4.2.3**). These landscapes are broadly described as moderately

hilly with steep cliffed margins, slopes ranging 10-25%, commonly with rocky sandstone outcrops. It is therefore highly likely that this region of the Assessment Area may contain caves, crevices, cliffs, rocks and/or other geological features of significance (see **Plate 4-1** for landscape example).

The remainder of the Assessment Area is highly urbanised, and therefore any geological features of significance are unlikely to be present in the capacity that they could support habitat for wildlife.



**Plate 4-1:** Typical example of rocky outcrops within the Lane Cove National Park in the northern region of the Assessment Area. Source: Maurice Van Creijl, Lane Cove Valley Walk 2016. Google Maps Streetview.

#### 4.2.5 Habitat connectivity

Fauna moves through habitats to obtain food, shelter and breeding resources in response to seasonal resource availability and habitat conditions. Large tracts of habitat are generally required for successful dispersal away from natal areas or seasonal migrations.

In the north-east of the Assessment Area, within the Lane Cove National Park, there is high connectivity along this vegetated corridor which may allow for movement of both agile and more sessile species due to the near continuous vegetation. However, there is almost zero means of connectivity between the National Park and the wider south-west region of Assessment Area as the National Park is bounded by major transport routes and highly urbanised areas.

Within the remaining south-west region of the Assessment Area, there are fragments of riparian corridor along the named and un-named tributaries of the Lane Cove River, in addition to patches of street trees, sporting fields (including a golf course) and parklands. The most significant stretch of riparian corridor runs for approximately 3.3 km south-west to north-east along Shrimpton's Creek. The northern-most section of this corridor is known as Wilga Park and is easily accessible from the Subject Land by crossing Cottonwood Crescent to the south-east. It is possible that some fauna may utilise this point to gain access to vegetation in Subject Land and the neighbouring Elouera Reserve. There are virtually zero instances of any other examples of near continuous vegetation in this region.

Overall, it is unlikely that less mobile species, including frogs, reptiles and small mammals are moving throughout the Assessment Area and between the Lane Cove National Park owing to the lack of continuous vegetation. There may be some movement by more urban-adaptive species (e.g. Brushtail Possums) along the smaller corridors, particularly the Shrimpton's Creek riparian corridor. Patchy vegetation and relative proximity to the Lane Cove National Park may allow for the movement of more mobile species, such as birds and bats, throughout the Assessment Area.

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## 4.2.6 Rivers, streams, estuaries and wetlands

No mapped or unmapped rivers or streams occur within the Subject Land. 1<sup>st</sup>, 2<sup>nd</sup> and 5<sup>th</sup> order streams/rivers and their riparian buffers occur within the Assessment Area (**Figure 4-3**). Shrimpton's Creek is the closest stream to the Subject Land (120 m south-east) and has a 20 m riparian buffer. Mars Creek (1<sup>st</sup> order) is approximately 850 m northwest of the Subject Land and has a 10 m riparian buffer. Additionally, the Lane Cove River (5<sup>th</sup>+ order stream) occurs within the Assessment Area (approximately 900 m northeast) and is mapped as Key Fish Habitat and has a 40 m riparian buffer. Stormwater run-off from the Subject Land flows northwest towards Waterloo Road and Cottonwood Crescent and discharges into the Shrimpton's Creek catchment.

No wetlands are mapped within the Assessment Area. No Littoral Rainforests, or their proximity areas, are mapped within or adjacent to the Assessment Area.

## 4.2.7 Areas of Outstanding Biodiversity Value

Areas of Outstanding Biodiversity Value (AOBV) are declared under the BC Act to identify, highlight and effectively manage sites that make significant contributions to the persistence of biodiversity in New South Wales, Australia and globally. There are four AOBV in NSW (NSW DCCEEW, 2025a).

1. Gould's Petrel – critical habitat declaration
2. Little penguin population in Sydney's North Harbour – critical habitat declaration
3. Mitchell's Rainforest Snail in Stotts Island Nature Reserve – critical habitat declaration
4. Wollemi Pine – critical habitat declaration.

No registered AOBVs occur within the Assessment Area.



**Figure 4-1: IBRA and Mitchell Landscapes**

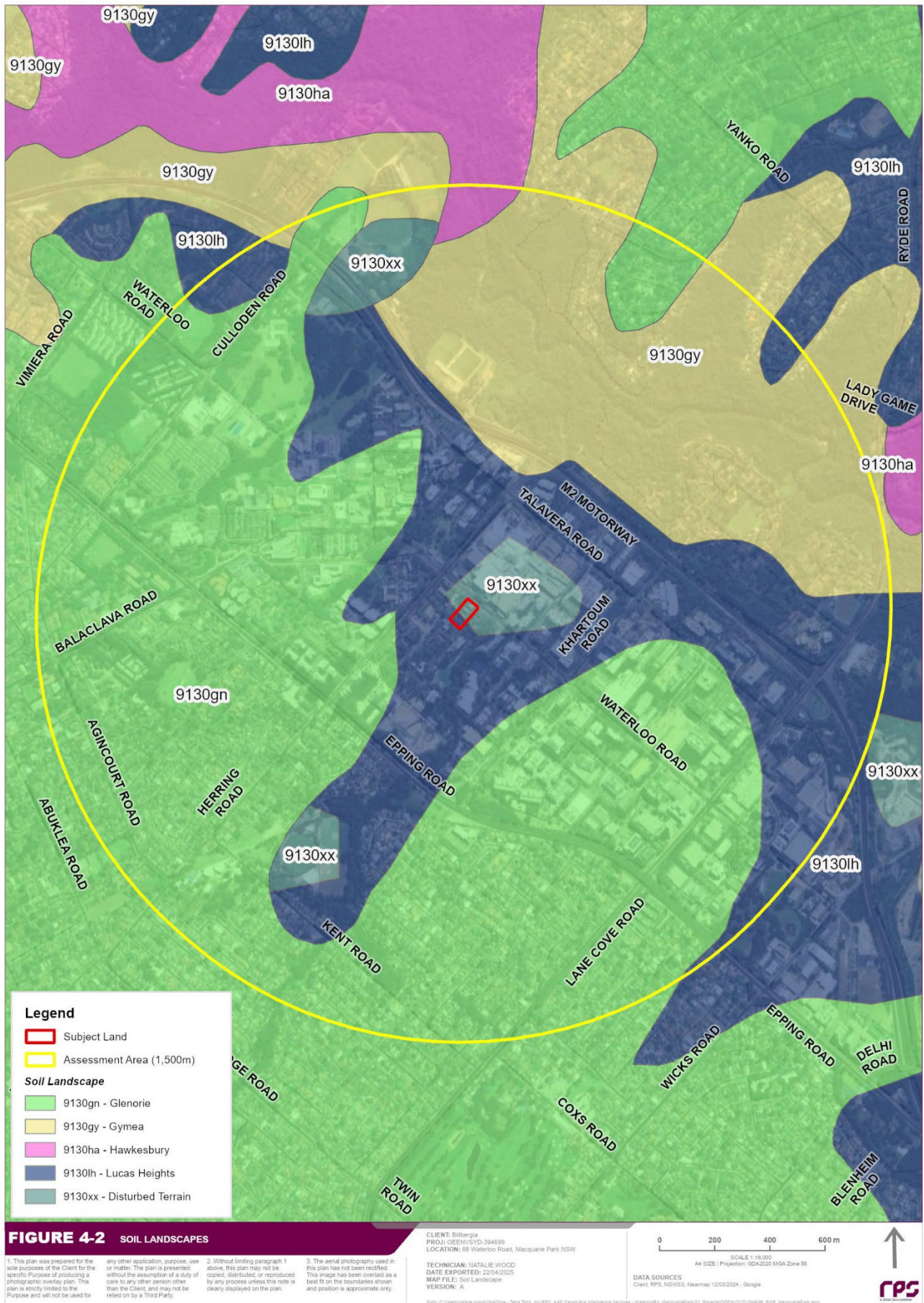


Figure 4-2: Soil landscapes

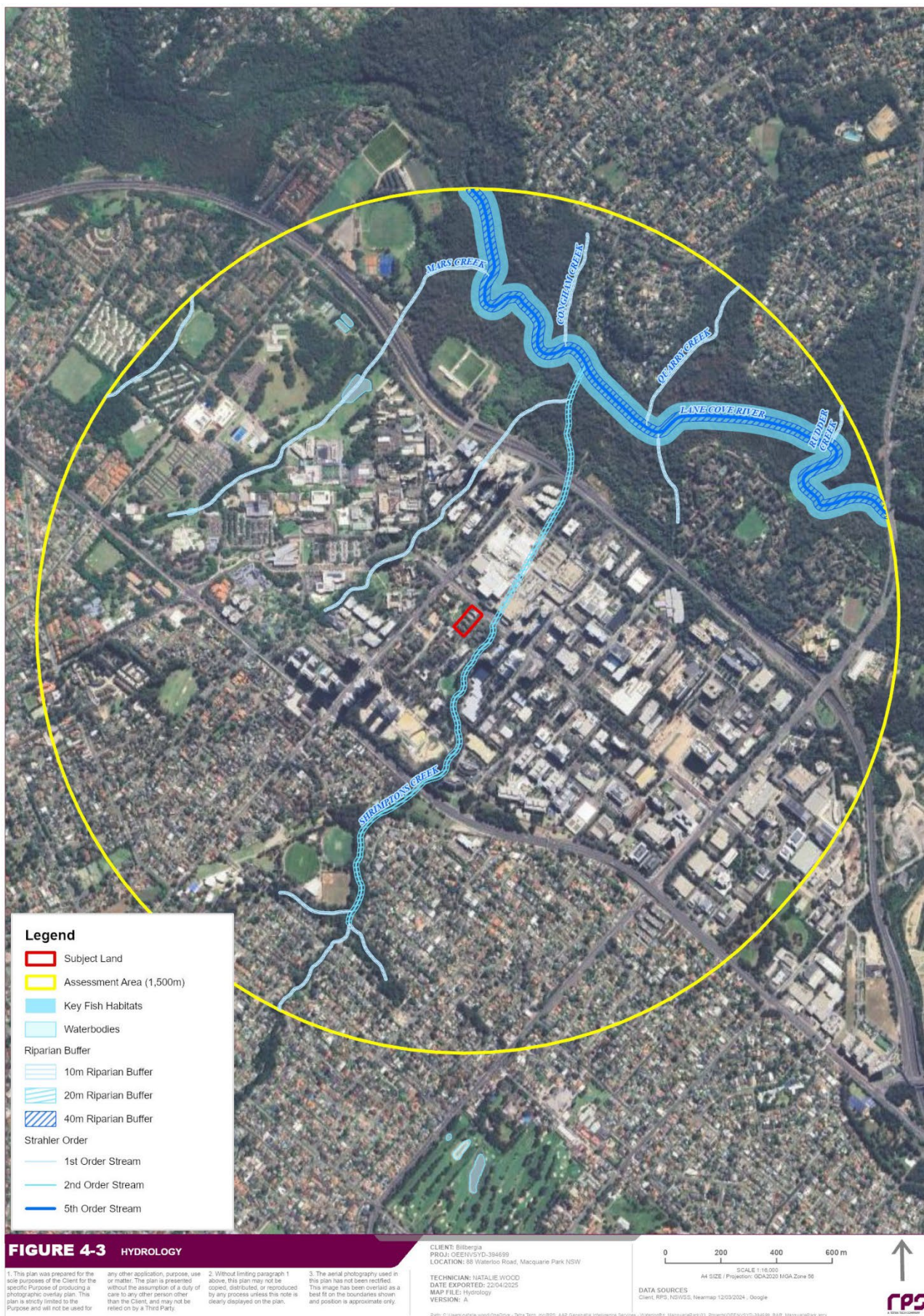


Figure 4-3: Hydrology and Key Fish Habitat

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## **5      NATIVE VEGETATION, THREATENED ECOLOGICAL COMMUNITIES AND VEGETATION INTEGRITY**

In accordance with Question 5 i. of Appendix D and Appendix L Table 28 of the BAM (DPE 2020a), this section is not required to be applied.

## 6 HABITAT SUITABILITY FOR THREATENED SPECIES

In accordance with Question 5 i. of Appendix D and Appendix L Table 28 of the BAM (NSW DPIE, 2020a) this section is not required to be applied. Instead, Appendix D.2 of the BAM applies; therefore, the assessor must assess the suitability of the planted native vegetation for use by threatened species and record any incidental sightings or evidence (e.g., scats, stick nests) of threatened species credit species (flora and fauna) using, inhabiting or being part of the planted native vegetation.

### 6.1 Flora

Species credit flora species derived from the BAM-C for PCT 3592 and PCT 3176 (pre-clearing PCT mapped within the Subject Land; (NSW DCCEEW, 2025d)) were determined in **Section 3.4.1**. These species are listed in **Table 6-1** with their BAM approved survey period (purple cells) and the month in which the site assessment was undertaken. Survey periods were determined from the Threatened Species Profile website and the BAM-C calculator (NSW DCCEEW, 2025b). Threatened flora species whose survey period coincided with the site assessment (September (RPS, 2024); **Table 6-1**) are marked with an 'X'.

None of the flora species whose survey period coincided with the site assessment were identified within the Subject Land and were not further assessed. Further assessment of the following species whose survey period did not coincide with the site assessment are presented in **Section 6.1.1**.

- *Acacia terminalis* subsp. *Eastern Sydney*
- *Callistemon linearifolius*
- *Deyeuxia appressa*
- *Genoplesium baueri*
- *Hibbertia puberula*
- *Hibbertia spanantha*
- *Leptospermum deanei*
- *Pimelea curviflora* var. *curviflora*.

**Table 6-1: Species credit flora species assessed, including their BAM approved survey month (purple cells denote BAM approved survey period, black 'X' denotes timing of site assessment)**

| Species credit flora species                          | BAM approved survey month |      |     |     |     |     |     |     |     |     |     |     |
|-------------------------------------------------------|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                       | Jan                       | Febr | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| <i>Acacia prominens</i>                               |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Acacia pubescens</i>                               |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Acacia terminalis</i> subsp. <i>Eastern Sydney</i> |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Callistemon linearifolius</i>                      |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Darwinia biflora</i>                               |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Deyeuxia appressa</i>                              |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Diuris bracteata</i>                               |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Epacris purpurascens</i> var. <i>purpurascens</i>  |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Eucalyptus camfieldii</i>                          |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Genoplesium baueri</i>                             |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Grevillea parviflora</i> subsp. <i>supplicans</i>  |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Haloragodendron lucasii</i>                        |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Hibbertia puberula</i>                             |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Hibbertia spanantha</i>                            |                           |      |     |     |     |     |     |     | X   |     |     |     |

| Species credit flora species                            | BAM approved survey month |      |     |     |     |     |     |     |     |     |     |     |
|---------------------------------------------------------|---------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                         | Jan                       | Febr | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| <i>Hibbertia superans</i>                               |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Kunzea rupestris</i>                                 |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Lasiopetalum joyceae</i>                             |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Leptospermum deanei</i>                              |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Melaleuca deanei</i>                                 |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Micromyrtus blakelyi</i>                             |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Persoonia hirsuta</i>                                |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Persoonia mollis</i> subsp. <i>maxima</i>            |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Pimelea curviflora</i> var. <i>curviflora</i>        |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Prostanthera askania</i>                             |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Prostanthera marifolia</i>                           |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Rhizanthella slateri</i>                             |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Rhodamnia rubescens</i>                              |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Tetratheca glandulosa</i>                            |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Wahlenbergia multicaulis</i> - endangered population |                           |      |     |     |     |     |     |     | X   |     |     |     |
| <i>Zieria involucreta</i>                               |                           |      |     |     |     |     |     |     | X   |     |     |     |

X denotes survey month

## 6.1.1 Further assessment

### 6.1.1.1 *Acacia terminalis* subsp. *Eastern Sydney* (Sunshine wattle)

#### Considered further: No

*Acacia terminalis* subsp. *Eastern Sydney* has a very limited distribution, mainly in near-coastal areas. It is found in coastal scrub and in dry sclerophyll woodland usually in sandy soil on creek banks, hillslopes or in shallow soil in rock crevices and sandstone platforms on cliffs (PlantNet, 2025).

Although the soils underlying part of the Subject Land are sandy in structure (see **Section 4.2.3**), it does not have the habitat features (i.e. rock crevices, sandstone platforms or creek beds) necessary for this species occurrence. Based on this information, it was therefore determined that this species is highly unlikely to inhabit part of the Subject Land and is not considered in the following sections of this report and no specific mitigation measures have been proposed.

### 6.1.1.2 *Callistemon linearifolius* (Netted bottle-brush)

#### Considered further: No

*Callistemon linearifolius* has a very limited distribution within the Sydney area, with only 5-6 populations remaining. All populations are in conservation areas: three in Ku-Ring-Gai Chase National Park, one in Lion Island Nature Reserve and one in Spectacle Island Nature Reserve (NSW OEH, 2025). This species grows in dry sclerophyll forest on the coast and adjacent ranges (PlantNet, 2025).

Although the pre-clearing vegetation within the Subject Land was listed as dry-sclerophyll forest (see **Section 3.4.1**), it is now highly disturbed terrain. The considerable dispersal distance from the existing populations also makes it very unlikely that *Callistemon linearifolius* exists in the Subject Land. Additionally, only one other species of *Callistemon* (*Callistemon viminalis*) was identified during the site assessment, which could not be mistaken for *Callistemon linearifolius* owing to distinctly different leaf shapes. Based on this information, it was therefore determined that this species is highly unlikely to inhabit part of the Subject Land and is not considered in the following sections of this report and no specific mitigation measures have been proposed.

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### 6.1.1.3 *Deyeuxia appressa*

#### Considered further: No

An erect perennial grass to 0.9 m high. The species is highly restricted with no records of the species in the Sydney area since 1942. It is highly likely the species is now extinct in the wild due to habitat loss and urbanisation within its expected range (NSW OEH, 2025).

Given that this species has not been recorded in over 70 years, and the Subject Land (and surrounding landscape) have been extensively cleared during that late 1940's – early 1950's (refer to historical aerial imagery, **Section 1.3**), it is therefore extremely unlikely this species is inhabiting part of the Subject Land. This species is therefore not considered in the following sections of this report and no specific mitigation measures have been proposed.

### 6.1.1.4 *Genoplesium baueri*

#### Considered further: No

A terrestrial orchid 6-15 cm high, fleshy, brittle, yellowish-green or reddish in colour. Grows in sparse sclerophyll forest and moss gardens over sandstone. About half of the known records were collected before 1960 in Asquith, Cowan, Gladesville, Longueville and Wahroonga, however none have been made within recent years. The species has been recorded at locations now likely to be within the following conservation reserves: Berowra Valley Regional Park, Royal National Park and Lane Cove National Park (NSW OEH, 2004).

The Subject Land has been extensively cleared and is highly urbanised. The underlying geology consists of shales and siltstones (see **Section 4.2.3**), not sandstone which is listed as important for the species. Based on the information presented, it was therefore determined that this species is highly unlikely to inhabit part of the Subject Land and is not considered in the following sections of this report and no specific mitigation measures have been proposed.

### 6.1.1.5 *Hibbertia puberula*

#### Considered further: No

Species described as widespread, but never common. Range extending from the Wollemi National Park south to Morton National Park and the south coast near Nowra. Early records of the species include collections from the Hawkesbury River and Frenches Forest areas. The species typically favours dry sclerophyll woodland and low heath on sandy soils often associated with sandstone, or rarely in clay, with or without rocks underneath. It is noted that the species is likely to be more prevalent than current records suggest and is threatened by habitat loss and environmental and demographic fluctuations (NSW OEH, 2003, 2025).

The Subject Land has been extensively cleared and is highly urbanised. The underlying geology consists of shales and siltstones (see **Section 4.2.3**), not sandstone which is listed as important for the species. There were no other *Hibbertia* species identified on site, and the only other native shrub identified (*Philotheca myoporoides*; Long leafed wax flower) has a habit and appearance that could not be misidentified as *Hibbertia puberula* (RPS, 2024). Based on the information presented, it was therefore determined that it is highly unlikely that *Hibbertia puberula* is inhabiting part of the Subject Land and is not considered in the following sections of this report and no specific mitigation measures have been proposed.

### 6.1.1.6 *Hibbertia spanantha*

#### Considered further: No

*Hibbertia spanantha* is described as a wiry shrub, up to 30 cm high with bright yellow flowers. Highly restricted area of occupancy estimated to be 12 km<sup>2</sup> covering Turrumurra, North Ryde and Cheltenham. Grows in forests with a canopy cover of *Eucalyptus pilularis*, *E. piperita*, *E. resinifera*, *Corymbia gummifera*, *Angophora costata* and *Syncarpia glomulifera* with and open understorey of *Poaceae*, *Orchidaceae*, *Fabaceae* and *Liliaceae*. Soil preference identified as a light clay occurring on a shale sandstone soil transition. Threats include competition with native and weed species, low population, changes to soil microclimate, restricted distribution and habitat loss (NSW OEH, 2025).

The Subject Land contains some habitat features suitable for the species, including the presence of some of the preferred canopy cover species (*Corymbia gummifera* and *Eucalyptus pilularis*, (RPS, 2024)) and an acceptable underlying geology (shales and siltstones in an area of shale-sandstone transition, **Section 4.2**). However, this species is highly restricted, prefers an in-tact, undisturbed understory and may be sensitive to changes in the soil microclimate. Based on the information presented and given that the Subject Land is within a highly disturbed landscape, it was therefore determined that *Hibbertia spanantha* is highly unlikely to inhabit part of the Subject Land and is not considered in the following sections of this report and no specific mitigation measures have been proposed.

**6.1.1.7 *Leptospermum deanei* (syn. *Gaudium deanei*)**

**Considered further: No**

*Leptospermum deanei* is a shrub growing up to 5 m high from the *Myrtaceae* family. The species occurs in Sydney’s north-western suburbs, along Lane Cove River, upper Middle Harbour Creek, Calna Creek, Marramarr Creek, Devlins Creek (Pennant Hills Park) and Galston Gorge. It grows in sandy alluvial soils and sand over sandstone on lower hill slopes and riparian zones. Associated vegetation communities include riparian shrubland, woodland and open forest (Cth DCCEEW, 2008). The BAM-C states that ‘*Waterbodies; or within 100 m of freshwater or estuarine streams*’ are essential habitat features that must be present for the species to occupy or periodically use the subject land (NSW DCCEEW, 2025b).

The Subject Land does not contain sandy alluvial soils (**Section 4.2**) and is not within a riparian zone or contain any waterbodies/streams within 100 m (**Figure 4-3**). The closest stream is Shrimpton Creek (120 m south-east). Based on the information presented and the BAM-C habitat restrictions, it was determined that *Leptospermum deanei* is highly unlikely to inhabit part of the Subject Land and is therefore not considered in the following sections of this report and no specific mitigation measures have been proposed.

More broadly, there may be indirect impacts to suitable habitat in the Shrimpton Creek riparian area from a potential development casting shadows, which are discussed further in **Section 9.2**.

**6.1.1.8 *Pimelea curviflora* var. *curviflora*.**

**Considered further: No**

*Pimelea curviflora* var. *curviflora* is a highly branched shrub 20-120 cm high with red to yellow flowers. Restricted to coastal areas of northern Sydney ranging from South Maroota to Kellyville. Occurs on sandstone and laterite soils and shale/sandstone transition soils on ridgetops and upper slopes amount woodlands. Often grows amongst dense grasses and sedges where it can be difficult to see owing to its fine and scraggly habit. Threats include habitat loss due to clearing, habitat degradation and competition with various woody and herbaceous species (NSW OEH, 2025).

The Subject Land may contain some habitat features suitable for its survival, namely the presence of shale/transition sandstone soil landscape (**Section 4.2.2**). However, the Subject Land is highly disturbed (and has been fully cleared since at least 1953), is devoid of dense grasses and sedges, and is not located on a ridgetop or upper slope, all habitat features important to this species. The Subject Land is also outside of the species known range. Despite the potential for this species to be a cryptic, it is unlikely that it would have been overlooked during the site investigation as the vegetated areas within the Subject Land are highly landscaped and visibility of species would not be impeded by overgrowth (see **Section 1.3** for site photographs). It was therefore determined that *Pimelea curviflora* var. *curviflora* is highly unlikely to inhabit part of the Subject Land and is not considered in the following sections of this report and no specific mitigation measures have been proposed.

**6.2 Fauna**

Potential habitat for threatened species identified during the site investigation (RPS, 2024) is presented in **Table 6-2**.

**Table 6-2: Fauna habitat identified within the Subject Land**

| Habitat feature      | Extent and condition within Subject Land |
|----------------------|------------------------------------------|
| Hollow-bearing trees | Absent.                                  |

| Habitat feature                                                                                             | Extent and condition within Subject Land                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flowering/seed bearing trees                                                                                | Present.<br>Eucalypts and exotic tree species were identified within the Subject Land, bearing fruit and seeds at various times of year. Flowering/seed bearing trees may provide suitable foraging habitat for a variety of native fauna. Flowering/seed bearing trees may provide suitable foraging habitat for a variety of native fauna, including threatened species such as Little Lorikeet ( <i>Glossopsitta pusilla</i> , Vulnerable; BC Act), Turquoise Parrot ( <i>Neophema pulchella</i> , Vulnerable; BC Act), Grey-headed Flying-fox ( <i>Pteropus poliocephalus</i> , Vulnerable; BC Act and EPBC Act) and Gang-gang Cockatoo ( <i>Callocephalon fimbriatum</i> , Vulnerable; BC Act). |
| Fruit bearing and flowering shrubs                                                                          | Present.<br>Seven species of flowering shrubs were identified, such as <i>Banksia integrifolia</i> , <i>Callistemon viminalis</i> and <i>Melaleuca quinquenervia</i> . Flowering shrubs may provide suitable foraging habitat for a variety of native fauna.<br>Two species of fruit bearing tree was identified, <i>Phoenix canariensis</i> and <i>Brachychiton acerifolius</i> . Fruit may provide suitable foraging habitat for species such as the Grey-headed Flying-fox.                                                                                                                                                                                                                       |
| Dead wood including stags and ground logs                                                                   | Absent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Accumulations of leaf litter                                                                                | Generally absent.<br>Some Leaf litter accumulation amongst native/non-native vegetation in garden beds.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Weed thickets                                                                                               | Absent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Bushrock and rocky outcrops                                                                                 | Absent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Waterbodies such as wetlands, swales, streams, rivers and dams (Fish, Frog and Waterbird habitat)           | Absent.<br>The closest waterbody to the Subject Land is Shrimpton Creek, ~120 m to the south-east                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Nests and roosts                                                                                            | Absent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Distinctive scats (e.g., those of the Spotted-tailed Quoll or Koala)                                        | Absent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <i>Allocasuarina</i> spp.                                                                                   | Absent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Flying-fox camps                                                                                            | Absent.<br>12 Flying Fox camps are mapped within 25 km (NSW DCCEEW, 2025e) of the Subject Land. The closest is approximately 5.5 km north-east of the Subject Land boundary in Killara. This camp was last surveyed in 2021 with 500-2500 individuals estimated present.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Microchiropteran bat subterranean roosts (caves, culverts, tunnels, bark fissures, and disused mine shafts) | Present.<br>Although the buildings within the Subject Land are occupied, these may present potential roost sites for microbats. Decorticating bark within the Subject Land may be utilised as microbat roosts. No caves, tunnels, or disused mine shafts occur. Potential cliff habitat is located approximately 900 m north-east of the Subject Land in the Lane Cove National Park.                                                                                                                                                                                                                                                                                                                |
| Winter-flowering eucalypts                                                                                  | Present.<br><i>Corymbia gummifera</i> , <i>Corymbia maculata</i> and <i>Eucalyptus pilularis</i> are identified within the Subject Land and have been recorded flowering in winter (CANBR, 2020).<br>These may provide winter flowering foraging habitat for migratory and nomadic woodland bird species such as the Little Lorikeet ( <i>Glossopsitta pusilla</i> ), Regent Honey Eater ( <i>Anthochaera phrygia</i> ) and Swift Parrot ( <i>Lathamus discolor</i> ). However, the Subject Land is not mapped as important habitat for these species.                                                                                                                                               |
| Mistletoes                                                                                                  | Absent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Koala feed trees                                                                                            | <i>Corymbia gummifera</i> , <i>Corymbia maculata</i> , <i>Eucalyptus botryoides</i> , <i>Eucalyptus pilularis</i> , <i>Eucalyptus punctata</i> and <i>Eucalyptus viminalis</i> occur within the Subject Land. These trees are listed as Koala use trees in Appendix C of the <i>Koala (Phascolarctos cinereus) Biodiversity Assessment Method Survey Guide</i> (NSW DPIE, 2022).                                                                                                                                                                                                                                                                                                                     |

## 6.2.1 Habitat suitability

Habitat suitability was assessed for all ecosystem and species credit fauna species derived from **Section 3.5**. Initial suitability was assessed utilising the habitat and geographic constraints outlined in the BAM-C (displayed in **Table 6-3**). Remaining species underwent a likelihood of occurrence analysis based off habitat present within the Subject Land and species descriptions from the Threatened Biodiversity Profile Search (NSW OEH, 2025), as displayed in **Table 6-4**. Habitat requirements have been determined from the NSW Office of Environment and Heritage Threatened Biodiversity Profile Search (NSW OEH, 2025) for each species, and other sources where noted.

This BAM-C and subsequent likelihood of occurrence analyses assessments determined that following six species credit species likely have low-moderate suitable habitat within the planted native vegetation:

- Little Lorikeet (*Glossopsitta pusilla*)
- White-bellied Sea-Eagle (*Haliaeetus leucogaster*)
- Square-tailed Kite (*Lophoictinia isura*)
- Large Bent-winged Bat (*Miniopterus orianae oceanensis*)
- Grey-headed Flying-fox (*Pteropus poliocephalus*)
- Yellow-bellied Sheath-tail-bat (*Saccolaimus flaviventris*)

Habitat suitability for these species are addressed in further detail in **Section 6.2.2**.

**Table 6-3: Suitability assessment for ecosystem and species credit fauna species via BAM-C constraints. Dual Credit Fauna Species are those that are listed under both Ecosystem as 'foraging' and Species as 'breeding'.**

| Scientific name                        | Common name                                   | BAM-C habitat/geographic constraint                                                                                                                                    | Included in further assessment?                                                                     |
|----------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Ecosystem Credit Fauna Species</b>  |                                               |                                                                                                                                                                        |                                                                                                     |
| <b>Aves</b>                            |                                               |                                                                                                                                                                        |                                                                                                     |
| <i>Artamus cyanopterus cyanopterus</i> | Dusky Woodswallow                             | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Climacteris picumnus victoriae</i>  | Brown Treecreeper (eastern subspecies)        | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Daphoenositta chrysoptera</i>       | Varied Sittella                               | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Glossopsitta pusilla</i>            | Little Lorikeet                               | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Hirundapus caudacutus</i>           | White-throated Needletail                     | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Ixobrychus flavicollis</i>          | Black Bittern                                 | <ul style="list-style-type: none"> <li>Waterbodies: Land within 40 m of freshwater and estuarine wetlands, in areas of permanent water and dense vegetation</li> </ul> | No – Subject Land not within 40 m of any wetland or in areas of permanent water or dense vegetation |
| <i>Melithreptus gularis gularis</i>    | Black-chinned Honeyeater (eastern subspecies) | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Neophema pulchella</i>              | Turquoise Parrot                              | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Petroica boodang</i>                | Scarlet Robin                                 | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Petroica phoenicea</i>              | Flame Robin                                   | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <b>Mammals</b>                         |                                               |                                                                                                                                                                        |                                                                                                     |
| <i>Dasyurus maculatus</i>              | Spotted-tailed Quoll                          | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Falsistrellus tasmaniensis</i>      | Eastern False Pipistrelle                     | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Micronomus norfolkensis</i>         | Eastern Coastal Free-tailed Bat               | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Petaurus australis</i>              | Yellow-bellied Glider                         | N/A                                                                                                                                                                    | Yes                                                                                                 |
| <i>Phoniscus papuensis</i>             | Golden-tipped Bat                             | N/A                                                                                                                                                                    | Yes                                                                                                 |

| Scientific name                     | Common name                    | BAM-C habitat/geographic constraint                                                                                                                                                                   | Included in further assessment?                                                                        |
|-------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <i>Saccolaimus flaviventris</i>     | Yellow-bellied Sheath-tail-bat | N/A                                                                                                                                                                                                   | Yes                                                                                                    |
| <i>Scoteanax rueppellii</i>         | Greater Broad-nosed Bat        | N/A                                                                                                                                                                                                   | Yes                                                                                                    |
| <b>Reptiles</b>                     |                                |                                                                                                                                                                                                       |                                                                                                        |
| <i>Varanus rosenbergi</i>           | Rosenberg's Goanna             | N/A                                                                                                                                                                                                   | Yes                                                                                                    |
| <b>Species Credit Fauna Species</b> |                                |                                                                                                                                                                                                       |                                                                                                        |
| <b>Amphibians</b>                   |                                |                                                                                                                                                                                                       |                                                                                                        |
| <i>Heleioporus australiacus</i>     | Giant Burrowing Frog           | N/A                                                                                                                                                                                                   | Yes                                                                                                    |
| <i>Litoria aurea</i>                | Green and Golden Bell Frog     | <ul style="list-style-type: none"> <li>Semi-permanent or ephemeral wet areas: Within 1km of wet areas</li> <li>Swamps: Within 1 km of swamp</li> <li>Waterbodies: Within 1 km of waterbody</li> </ul> | Yes – Subject Land is approx. 120 m away from Shrimpton Creek                                          |
| <i>Mixophyes iteratus</i>           | Giant Barred Frog              | <ul style="list-style-type: none"> <li>Land within 50 m of semi-permanent and permanent drainages</li> </ul>                                                                                          | No – Closest semi-permanent and/or permanent drainages is 120 m from Subject Land (Shrimptons Creek)   |
| <i>Pseudophryne australis</i>       | Red-crowned Toadlet            | N/A                                                                                                                                                                                                   | Yes                                                                                                    |
| <b>Aves</b>                         |                                |                                                                                                                                                                                                       |                                                                                                        |
| <i>Burhinus grallarius</i>          | Bush Stone-curlew              | <ul style="list-style-type: none"> <li>Fallen/standing dead timber including logs</li> </ul>                                                                                                          | No – no fallen/standing timber including logs identified within the Subject Land                       |
| <i>Nettapus coromandelianus</i>     | Cotton Pygmy-Goose             | <ul style="list-style-type: none"> <li>Waterbodies; Deep permanent fresh waters on floodplains with floating and submergent vegetation</li> </ul>                                                     | No – no deep, permanent fresh water on floodplains within the Subject Land                             |
| <i>Ninox connivens</i>              | Barking Owl                    | <ul style="list-style-type: none"> <li>Hollow bearing trees: Living or dead trees with hollows greater than 20 cm diameter and greater than 4 m above the ground</li> </ul>                           | No – no trees with hollows identified within the Subject Land                                          |
| <i>Ninox strenua</i>                | Powerful Owl                   | <ul style="list-style-type: none"> <li>Hollow bearing trees: Living or dead trees with hollow greater than 20 cm diameter and greater than 4 m above the ground</li> </ul>                            | No – no trees with hollows identified within the Subject Land                                          |
| <i>Pezoporus wallicus wallicus</i>  | Eastern Ground Parrot          | <ul style="list-style-type: none"> <li>N/A</li> </ul>                                                                                                                                                 | Yes                                                                                                    |
| <i>Tyto novaehollandiae</i>         | Masked Owl                     | <ul style="list-style-type: none"> <li>Hollow bearing trees: Living or dead trees with hollow greater than 20 cm diameter and greater than 4 m above the ground</li> </ul>                            | No – no trees with hollows identified within the Subject Land                                          |
| <b>Mammals</b>                      |                                |                                                                                                                                                                                                       |                                                                                                        |
| <i>Cercartetus nanus</i>            | Eastern Pygmy-possum           | N/A                                                                                                                                                                                                   | Yes                                                                                                    |
| <i>Chalinolobus dwyeri</i>          | Large-eared Pied Bat           | <ul style="list-style-type: none"> <li>Cliffs: Within 2 km of rocky areas containing caves, overhangs, escarpments, outcrops, or crevices, or</li> </ul>                                              | Yes – cliffs and rocky areas, occur within 2 km of the Subject Land within the Lane Cove National Park |

| Scientific name                                         | Common name                                                        | BAM-C habitat/geographic constraint                                                                                                                                                                                                                                                             | Included in further assessment?                                                                                                                                                  |
|---------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |                                                                    | within 2 km of old mines or tunnels                                                                                                                                                                                                                                                             |                                                                                                                                                                                  |
| <i>Isoodon obesulus obesulus</i>                        | Southern Brown Bandicoot (eastern)                                 | <ul style="list-style-type: none"> <li>Requires dense ground cover in a variety of habitats</li> </ul>                                                                                                                                                                                          | No – groundcover is not dense within the Subject Land                                                                                                                            |
| <i>Myotis macropus</i>                                  | Southern Myotis                                                    | <ul style="list-style-type: none"> <li>Waterbodies; Waterbodies with permanent pools/stretches 3m or wider, including rivers, large creeks, billabongs, lagoons, estuaries, dams and other waterbodies, on or within 200m of the site</li> </ul>                                                | No – there are no waterbodies on or within 200 m of the Subject Land with permanent pools/stretches 3 m or wider.                                                                |
| <i>Notamacropus parma</i>                               | Parma Wallaby                                                      | N/A                                                                                                                                                                                                                                                                                             | <b>Yes</b>                                                                                                                                                                       |
| <i>Perameles nasuta</i> (endangered population)         | Long-nosed Bandicoot population in inner western Sydney            | Marrickville, Canada Bay, Canterbury, Ashfield and Leichhardt LGAs                                                                                                                                                                                                                              | No – the Subject Land is not in the LGA's listed left                                                                                                                            |
| <i>Perameles nasuta</i> (endangered population)         | Long-nosed Bandicoot, North Head                                   | South of Addison Road Manly Headland, including Sydney Harbour National Park (north)                                                                                                                                                                                                            | No – the Subject Land is not in the LGA's listed left                                                                                                                            |
| <i>Petauroides volans</i>                               | Southern Greater Glider                                            | N/A                                                                                                                                                                                                                                                                                             | <b>Yes</b>                                                                                                                                                                       |
| <i>Petaurus norfolcensis</i>                            | Squirrel Glider                                                    | N/A                                                                                                                                                                                                                                                                                             | <b>Yes</b>                                                                                                                                                                       |
| <i>Petaurus norfolcensis</i> (endangered population)    | Squirrel Glider on Barrenjoey Peninsula, north of Bushrangers Hill | Barrenjoey Peninsula                                                                                                                                                                                                                                                                            | No – the Subject Land is not on the Barrenjoey Peninsula                                                                                                                         |
| <i>Phascolarctos cinereus</i>                           | Koala                                                              | Presence of koala use trees                                                                                                                                                                                                                                                                     | <b>Yes</b> - Koala use trees were identified within the Subject Land                                                                                                             |
| <b>Molluscs</b>                                         |                                                                    |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                  |
| <i>Meridolum maryae</i>                                 | Maroubra Woodland Snail                                            | N/A                                                                                                                                                                                                                                                                                             | <b>Yes</b>                                                                                                                                                                       |
| <i>Pommerhelix duralensis</i>                           | Dural Land Snail                                                   | N/A                                                                                                                                                                                                                                                                                             | <b>Yes</b>                                                                                                                                                                       |
| <b>Dual Credit Fauna Species</b>                        |                                                                    |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                  |
| <b>Aves</b>                                             |                                                                    |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                  |
| <i>Callocephalon fimbriatum</i> (Foraging and Breeding) | Gang-gang Cockatoo                                                 | Foraging (ecosystem):<br>N/A<br><br>Breeding (species): <ul style="list-style-type: none"> <li>Hollow bearing trees: Eucalypt tree species with hollows at least 3 m above the ground and with hollow diameter of 7 cm or larger (Breeding)</li> </ul>                                          | Foraging:<br><b>Yes</b><br><br>Breeding:<br>No - no hollow bearing trees were identified within the Subject Land                                                                 |
| <i>Calyptorhynchus lathami</i> (Foraging and Breeding)  | Glossy Black-Cockatoo                                              | <ul style="list-style-type: none"> <li>Presence of Allocasuarina and casuarina species</li> </ul><br>Breeding (species): <ul style="list-style-type: none"> <li>Hollow bearing trees: Living or dead tree with hollows greater than 15 cm diameter and greater than 8 m above ground</li> </ul> | Foraging:<br>No – no Allocasuarina and casuarina species identified in the Subject Land<br><br>Breeding:<br>No - no hollow bearing trees were identified within the Subject Land |
| <i>Haliaeetus leucogaster</i>                           | White-bellied Sea-Eagle                                            | Foraging (ecosystem):                                                                                                                                                                                                                                                                           | Foraging:                                                                                                                                                                        |

| Scientific name                                          | Common name            | BAM-C habitat/geographic constraint                                                                                                                                                                                                                                                                                 | Included in further assessment?                                                                                                                                                           |
|----------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (Foraging and Breeding)                                  |                        | <ul style="list-style-type: none"> <li>Waterbodies; Within 1km of a rivers, lakes, large dams or creeks, wetlands and coastlines</li> </ul>                                                                                                                                                                         | <b>Yes</b> – The Subject Land is approx. 900 m from the Lane Cover River                                                                                                                  |
|                                                          |                        | Breeding (species): <ul style="list-style-type: none"> <li>Living or dead mature trees within suitable vegetation within 1 km of a rivers, lakes, large dams or creeks, wetlands and coastlines</li> </ul>                                                                                                          | Breeding:<br>No – no mature trees with suitable vegetation cover present in Subject Land. Subject Land also too disturbed to be a suitable nest location (NSW Scientific Committee, 2016) |
| <i>Hieraaetus morphnoides</i><br>(Foraging and Breeding) | Little Eagle           | Foraging (ecosystem):<br>N/A                                                                                                                                                                                                                                                                                        | Foraging:<br><b>Yes</b>                                                                                                                                                                   |
|                                                          |                        | Breeding (species): <ul style="list-style-type: none"> <li>Nest trees - live (occasionally dead) large old trees within vegetation)</li> </ul>                                                                                                                                                                      | Breeding:<br>No – no large old trees within vegetation identified within Subject Land                                                                                                     |
| <i>Lathamus discolor</i><br>(Foraging and Breeding)      | Swift Parrot           | Foraging (ecosystem):<br>N/A                                                                                                                                                                                                                                                                                        | Foraging:<br><b>Yes</b>                                                                                                                                                                   |
|                                                          |                        | Breeding (species): <ul style="list-style-type: none"> <li>As per Important Habitat Map</li> </ul>                                                                                                                                                                                                                  | Breeding:<br>No – the Subject Land does not fall within the Important Habitat Map                                                                                                         |
| <i>Lophoictinia isura</i><br>(Foraging and Breeding)     | Square-tailed Kite     | Foraging (ecosystem):<br>N/A                                                                                                                                                                                                                                                                                        | Foraging:<br><b>Yes</b>                                                                                                                                                                   |
|                                                          |                        | Breeding (species): <ul style="list-style-type: none"> <li>Nest trees</li> </ul>                                                                                                                                                                                                                                    | Breeding:<br>No – the Subject Land does not contain suitable nest trees, and the surrounding landscape (vegetated, near to water) is inappropriate for nesting (BirdLife Australia, 2023) |
| <i>Pandion cristatus</i><br>(Foraging and Breeding)      | Eastern Osprey         | Foraging (ecosystem):<br>N/A                                                                                                                                                                                                                                                                                        | Foraging:<br><b>Yes</b>                                                                                                                                                                   |
|                                                          |                        | Breeding (species): <ul style="list-style-type: none"> <li>Presence of stick-nests in living and dead trees (&gt;15 m) or artificial structures within 100 m of a floodplain for nesting)</li> </ul>                                                                                                                | Breeding:<br>No - no nests or artificial nest structures were identified within the Subject Land                                                                                          |
| <b>Mammals</b>                                           |                        |                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                           |
| <i>Miniopterus australis</i><br>(Foraging and Breeding)  | Little Bent-winged Bat | Foraging (ecosystem):<br>N/A                                                                                                                                                                                                                                                                                        | Foraging:<br><b>Yes</b>                                                                                                                                                                   |
|                                                          |                        | Breeding (species): <ul style="list-style-type: none"> <li>Caves; Cave, tunnel, mine, culvert or other structure known or suspected to be used for breeding including species records in BioNet with microhabitat code 'IC – in cave'; observation type code 'E nest-roost'; with numbers of individuals</li> </ul> | Breeding:<br>No – there are no known or suspected structures used for breeding in the Subject Land (NSW DCCEEW, 2025c)                                                                    |

| Scientific name                                                  | Common name            | BAM-C habitat/geographic constraint                                                                                                                                                                                                                                                                                                                      | Included in further assessment?                                                                                                                                            |
|------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                  |                        | >500; or from the scientific literature                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                            |
| <i>Miniopterus orianae oceanensis</i><br>(Foraging and Breeding) | Large Bent-winged Bat  | Foraging (ecosystem):<br>N/A<br><br>Breeding (species):<br><ul style="list-style-type: none"> <li>Caves; Cave, tunnel, mine, culvert or other structure known or suspected to be used for breeding including species records with microhabitat code "IC - in cave;" observation type code "E nest-roost;" with numbers of individuals &gt;500</li> </ul> | Foraging:<br><b>Yes</b><br><br>Breeding:<br>No – there are no known or suspected structures used for breeding in the Subject Land (NSW DCCEEW, 2025c)                      |
| <i>Pteropus poliocephalus</i><br>(Foraging and Breeding)         | Grey-headed Flying-fox | Foraging (ecosystem):<br>N/A<br><br>Breeding (species):<br><ul style="list-style-type: none"> <li>Breeding camps</li> </ul>                                                                                                                                                                                                                              | Foraging:<br><b>Yes</b><br><br>Breeding:<br>No – no breeding camps with the Subject Land, closest known breeding camp is 5.5 km north-east in Killara ( <b>Table 6-2</b> ) |
| <b>Reptiles</b>                                                  |                        |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                            |
| <i>Hoplocephalus bungaroides</i><br>(Foraging and Breeding)      | Broad-headed Snake     | Foraging (ecosystem):<br><ul style="list-style-type: none"> <li>N/A</li> </ul><br>Breeding (species):<br><ul style="list-style-type: none"> <li>Rocky areas; Including escarpments, outcrops and pagodas within the Sydney Sandstone geologies</li> </ul>                                                                                                | Foraging:<br><b>Yes</b><br><br>Breeding:<br>No – no rocky areas (escarpments, outcrops, pagodas) identified within the Subject Land                                        |

**Table 6-4: Assessment of habitat suitability for remaining ecosystem, species and dual credit fauna species.**

| Scientific name                        | Common name                            | Credit type | Foraging habitat present?                                                                                                                                                                                                                                                               | Breeding habitat present?                                                                                                                                                                    | Habitat suitability |
|----------------------------------------|----------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>Amphibians</b>                      |                                        |             |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                              |                     |
| <i>Heleioporus australiacus</i>        | Giant Burrowing Frog                   | Species     | Suboptimal – Subject Land within 300 m of freshwater habitat and prey items have potential to occur within the Subject Land (NPWS, 2001). However, the Subject Land unlikely to provide suitable foraging habitat given the disturbed urban setting.                                    | No - no freshwater habitats occur within the Subject Land. Shrimpton's Creek (120 m south-east) is not suitable breeding habitat due to poor water quality (NPWS, 2001; Sydney Water, 2024). | Low                 |
| <i>Litoria aurea</i>                   | Green and Golden Bell Frog             | Species     | No – Subject Land does not contain marshes, dams and stream-sides, particularly those containing bullrushes for foraging                                                                                                                                                                | No – there are no freshwater and estuarine lakes or small temporary pools or depressions that occur within the Subject Land which are necessary for breeding.                                | Low                 |
| <i>Pseudophryne australis</i>          | Red-crowned Toadlet                    | Species     | No – the Subject Land does not contain periodically wet drainage lines below sandstone ridges that often have shale lenses or capping necessary for foraging and shelter.                                                                                                               | No - no freshwater habitats occur within the Subject Land. Shrimpton's Creek (120 m south-east) is not suitable breeding habitat due to poor water quality (Sydney Water, 2024).             | Low                 |
| <b>Aves</b>                            |                                        |             |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                              |                     |
| <i>Artamus cyanopterus cyanopterus</i> | Dusky Woodswallow                      | Ecosystem   | Suboptimal – forages in an open native woodland with a sparse understory of acacias, eucalypt saplings and grasses. Primarily eats invertebrates. Some prey and habitat in the Subject Land may be suitable, however it is unlikely to be utilised given the fragmented, urban setting. | No – generally breeds west of the Great Dividing Range                                                                                                                                       | Low                 |
| <i>Callocephalon fimbriatum</i>        | Gang-gang Cockatoo                     | Dual        | Suboptimal - potential feed trees occur within the Subject Land, however unlikely to provide suitable foraging habitat given the urban setting and fragmentation                                                                                                                        | N/A - excluded in <b>Table 6-3</b>                                                                                                                                                           | Low                 |
| <i>Climacteris picumnus victoriae</i>  | Brown Treecreeper (eastern subspecies) | Ecosystem   | No – this species forages in open eucalypt woodlands generally with a grassy understory (e.g. Cumberland Plain). Dry fallen timber is an important habitat component for foraging. The Subject Land does not contain fallen timber or have a dry grassy understory.                     | No - Hollows in standing dead or live trees and tree stumps are essential for nesting. No hollow bearing trees identified with the Subject Land.                                             | Low                 |

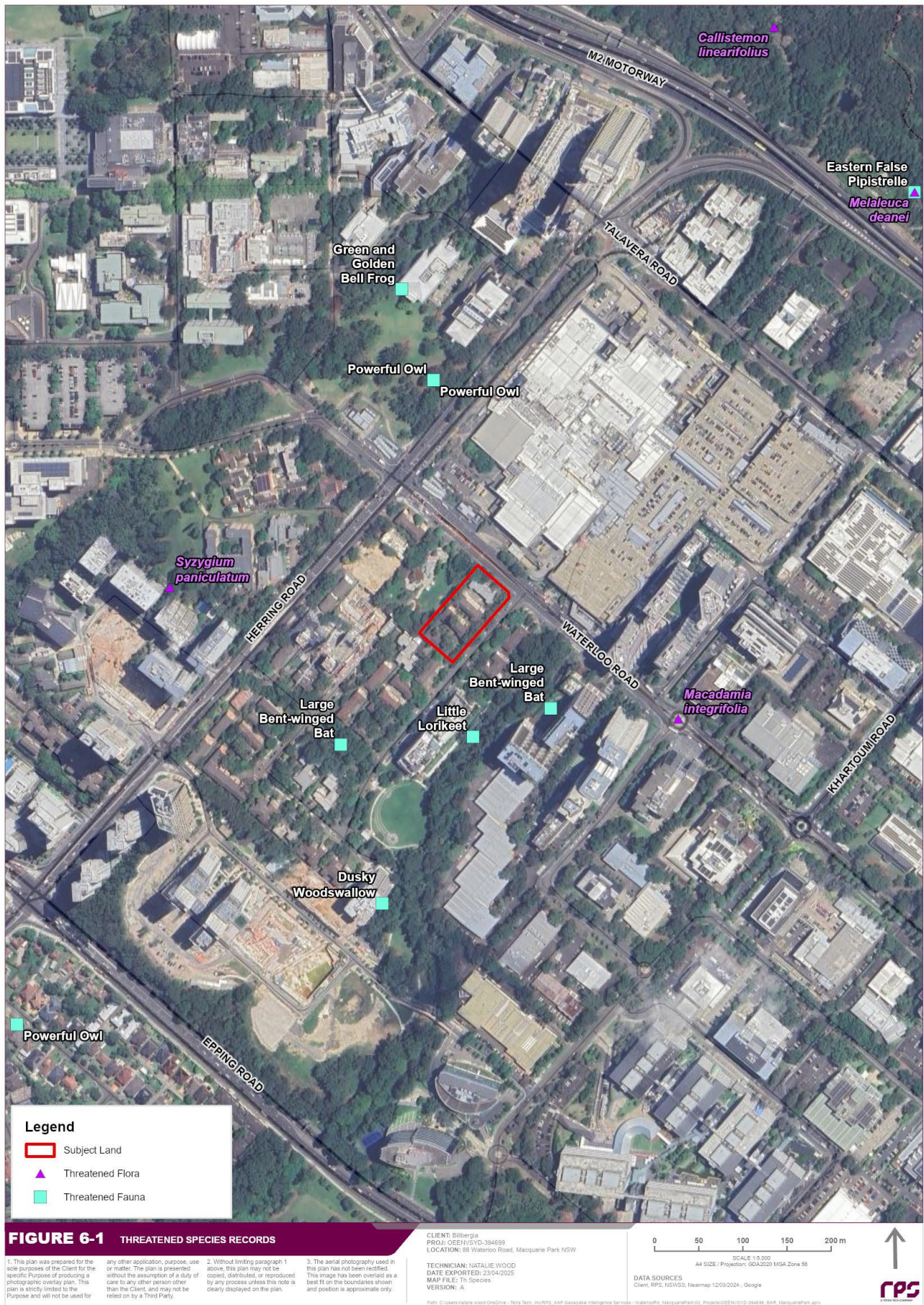
| Scientific name                  | Common name               | Credit type | Foraging habitat present?                                                                                                                                                                                                                                                                                                                                                                  | Breeding habitat present?                                                                                                                                                                                                                                           | Habitat suitability |
|----------------------------------|---------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <i>Daphoenositta chrysoptera</i> | Varied Sittella           | Ecosystem   | Suboptimal – feeds on arthropods gleaned from mature eucalypts. Sedentary species sensitive to fragmentation, habitat simplification and the dominance of Noisy Miners <i>Manorina melanocephala</i> in woodland patches.<br><br>While potential foraging habitat has the potential to occur in the Subject Land, it is unlikely to be suitable given the urban setting and fragmentation. | Suboptimal – builds a cup-nest high in canopy. No nests were identified during site investigation.<br><br>While potential breeding habitat has the potential to occur in the Subject Land, it is unlikely to be suitable given the urban setting and fragmentation. | Low                 |
| <i>Glossopsitta pusilla</i>      | Little Lorikeet           | Ecosystem   | <b>Yes</b> – feeds on nectar and pollen in the tree canopy, particularly on profusely-flowering eucalypts. Known to feed in remnant woodland patches and roadside vegetation. Species has been observed in Cottonwood Park adjacent to the Subject Land (NSW DCCEEW, 2025c) ( <b>Figure 6-1</b> ).                                                                                         | No – Nests in hollows, usually in riparian habitat. No hollow bearing trees identified within the Subject Land                                                                                                                                                      | <b>Moderate</b>     |
| <i>Haliaeetus leucogaster</i>    | White-bellied Sea-Eagle   | Dual        | <b>Yes</b> - potential prey items occur within the Subject Land, and it is in proximity to the Lane Cove National Park, which is known habitat for this species.                                                                                                                                                                                                                           | N/A - excluded in <b>Table 6-3</b>                                                                                                                                                                                                                                  | <b>Low-moderate</b> |
| <i>Hieraaetus morphnoides</i>    | Little Eagle              | Dual        | Suboptimal - prey items have potential to occur within the Subject Land, however unlikely to provide suitable foraging habitat given the urban setting and fragmentation                                                                                                                                                                                                                   | N/A - excluded in <b>Table 6-3</b>                                                                                                                                                                                                                                  | Low                 |
| <i>Hirundapus caudacutus</i>     | White-throated Needletail | Ecosystem   | No – species forages aerially                                                                                                                                                                                                                                                                                                                                                              | No - this species does not breed in Australia                                                                                                                                                                                                                       | Low                 |
| <i>Lathamus discolor</i>         | Swift Parrot              | Dual        | Suboptimal – the Subject Land contains trees suitable for foraging namely <i>C. maculata</i> , <i>C. gummifera</i> and <i>E. pilularis</i> , however, the Subject Land is outside of Important Habitat mapping for this species                                                                                                                                                            | N/A - excluded in <b>Table 6-3</b>                                                                                                                                                                                                                                  | Low                 |
| <i>Lophoictinia isura</i>        | Square-tailed Kite        | Dual        | <b>Yes</b> – this species shows preference for hunting over open forests and picks prey from the canopy. Potential prey items may occur within the Subject Land, and it is in proximity to the Lane Cove National Park, which is known habitat for this species.                                                                                                                           | N/A - excluded in <b>Table 6-3</b>                                                                                                                                                                                                                                  | <b>Low-moderate</b> |

| Scientific name                     | Common name                                   | Credit type | Foraging habitat present?                                                                                                                                                                                                                                                                           | Breeding habitat present?                                                                                                         | Habitat suitability |
|-------------------------------------|-----------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <i>Melithreptus gularis gularis</i> | Black-chinned Honeyeater (eastern subspecies) | Ecosystem   | No – forages for nectar in large woodland patches with dry open forest, rarely recorded east of the Great Dividing Range.<br>The Subject Land does not contain suitable habitat and is too far east.                                                                                                | No – nesting habitat is river sheoaks, which are not in the Subject Land.                                                         | Low                 |
| <i>Neophema pulchella</i>           | Turquoise Parrot                              | Ecosystem   | No – forages on the ground for the seeds of grasses, herbaceous plants or vegetable matter in clearings and farmland.<br>The Subject Land has maintained gardens and lawns, which would not be suitable for foraging.                                                                               | No – Nests in tree hollows, logs or posts. No hollows identified within the Subject Land                                          | Low                 |
| <i>Pandion cristatus</i>            | Eastern Osprey                                | Dual        | No – feeds on fish over clear, open water                                                                                                                                                                                                                                                           | N/A - excluded in <b>Table 6-3</b>                                                                                                | Low                 |
| <i>Petroica boodang</i>             | Scarlet Robin                                 | Ecosystem   | No – feeds on insects they find on tree trunks, logs and on the ground. Abundant logs, fallen timber and leaf litter are important habitat components.<br>The Subject Land lacks an abundance of logs, fallen timber and leaf litter and is therefore unlikely to provide suitable foraging habitat | No – species breeds in high altitude forests                                                                                      | Low                 |
| <i>Petroica phoenicea</i>           | Flame Robin                                   | Ecosystem   | No – feeds on insects they find on tree trunks, logs and other coarse woody debris in dry forests, open woodlands, pastures and native grasslands on inland slopes and plains.<br>Whilst the Subject Land may contain some prey items, the foraging habitat is not suitable.                        | No – species breeds in upland tall moist eucalypt forests and woodlands, often on ridges and slopes                               | Low                 |
| <i>Pezoporus wallicus wallicus</i>  | Eastern Ground Parrot                         | Species     | No – this species inhabits and forages in coastal and subcoastal heathland and sedgeland habitats, of which the Subject Land is not.                                                                                                                                                                | No – Eastern Ground Parrots nest in tall, coarse grass, sedge or shrubs. This habitat was not identified within the Subject Land. | Low                 |
| <b>Mammals</b>                      |                                               |             |                                                                                                                                                                                                                                                                                                     |                                                                                                                                   |                     |
| <i>Cercartetus nanus</i>            | Eastern Pygmy-possum                          | Species     | Suboptimal - potential feed trees occur within the Subject Land, however unlikely to provide suitable foraging habitat given the urban setting and fragmentation                                                                                                                                    | No - no hollows, holes, dreys or thickets of vegetation were identified within the Subject Land which would support breeding      | Low                 |

| Scientific name                       | Common name                     | Credit type | Foraging habitat present?                                                                                                                                                                                                                                                                                                                                                                                              | Breeding habitat present?                                                                                                                                                                                                | Habitat suitability |
|---------------------------------------|---------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <i>Chalinolobus dwyeri</i>            | Large-eared Pied Bat            | Species     | Suboptimal – this species is suspected to forage in insects in fertile valleys and plains, within tall woodland and along watercourses. It is dependent on the presence of diurnal roosts (e.g. caves) to be near foraging habitat.<br><br>Whilst the Lane Cove National Park, and the adjacent Shrimpton's Creek may provide some foraging habitat, it is unlikely native vegetation in the Subject Land is suitable. | No - <i>Chalinolobus dwyeri</i> maternity roosts are in caves with a specific structure (arch caves with dome roofs). Caves do not occur with the Subject Land (Department of Environment and Resource Management, 2011) | Low                 |
| <i>Dasyurus maculatus</i>             | Spotted-tailed Quoll            | Ecosystem   | Suboptimal - prey items (including gliders, rats, insects and birds) have potential to occur within the Subject Land, however unlikely to provide suitable foraging habitat given the urban setting and fragmentation                                                                                                                                                                                                  | No - Spotted-tailed Quoll dens occur in hollow-bearing trees, caves or rock outcrops which were not identified within the Subject Land                                                                                   | Low                 |
| <i>Falsistrellus tasmaniensis</i>     | Eastern False Pipistrelle       | Ecosystem   | No – prefers to forage in moist habitats. May forage in the adjacent Shrimpton's Creek riparian area but the habitat in the Subject Land is unsuitable                                                                                                                                                                                                                                                                 | Suboptimal – generally roosts in tree hollows, may also roost under loose or in man-made structures. Little is known about maternity roost selection.                                                                    | Low                 |
| <i>Micronomus norfolkensis</i>        | Eastern Coastal Free-tailed Bat | Ecosystem   | No – species forages in dry sclerophyll forest, woodland, swamp forests and mangrove forests.<br><br>Habitat in the Subject Land does not match this description and is therefore unsuitable.                                                                                                                                                                                                                          | Suboptimal – generally roosts in tree hollows, may also roost under loose or in man-made structures. Little is known about maternity roost selection.                                                                    | Low                 |
| <i>Miniopterus australis</i>          | Little Bent-winged Bat          | Dual        | No – species forages beneath the canopy for insects in densely vegetated habitats. Suitable prey may be present, however habitat in the Subject Land does not match this description and is therefore unsuitable.                                                                                                                                                                                                      | N/A - excluded in <b>Table 6-3</b>                                                                                                                                                                                       | Low                 |
| <i>Miniopterus orianae oceanensis</i> | Large Bent-winged Bat           | Dual        | <b>Yes</b> – forages for moths and other flying insects above tree tops. This species has also been identified using habitat directly adjacent to the Subject Land on multiple occasions (NSW DCCEEW, 2025c), (Figure 6-1) and was detected in Wiga Park during fauna surveys undertaken in 2018 (Applied Ecology, 2018)                                                                                               | N/A - excluded in <b>Table 6-3</b>                                                                                                                                                                                       | <b>Moderate</b>     |
| <i>Notamacropus parma</i>             | Parma Wallaby                   | Species     | No – nocturnally feeds on grasses and herbs open eucalypt forest and the edges of                                                                                                                                                                                                                                                                                                                                      | No – the Subject Land is outside of the species known range                                                                                                                                                              | Low                 |

| Scientific name                 | Common name                   | Credit type | Foraging habitat present?                                                                                                                                                                                                                                           | Breeding habitat present?                                                                                                                                            | Habitat suitability              |
|---------------------------------|-------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
|                                 |                               |             | nearby grassy areas. Southern extent of range is Gosford.<br>Habitat within the Subject Land is not suitable for foraging and is outside of its range.                                                                                                              |                                                                                                                                                                      |                                  |
| <i>Pteropus poliocephalus</i>   | Grey-headed Flying-fox        | Dual        | Yes - potential feed trees occur within the Subject Land and this species is known to frequent urban environments                                                                                                                                                   | N/A - excluded in <b>Table 6-3</b>                                                                                                                                   | <b>Low-moderate</b>              |
| <i>Petaurus australis</i>       | Yellow-bellied Glider         | Ecosystem   | Suboptimal - potential feed trees occur within the Subject Land, however unlikely to provide suitable foraging habitat given the urban setting and fragmentation                                                                                                    | No – den in hollows of large trees. No hollows identified in Subject Land                                                                                            | Low                              |
| <i>Petauroides volans</i>       | Southern Greater Glider       | Species     | Suboptimal - potential feed trees occur within the Subject Land, however unlikely to provide suitable foraging habitat given the urban setting and fragmentation                                                                                                    | No – in hollows of large trees. No hollows identified in Subject Land                                                                                                | Low                              |
| <i>Petaurus norfolcensis</i>    | Squirrel Glider               | Species     | No – This species inhabits Blackbutt-Bloodwood forest with heath understorey in coastal areas where it mainly feeds in acacias and eucalypts.<br>Whilst potential feed trees occur in the Subject Land, the habitat is unsuitable.                                  | No – this species requires abundant tree hollows for refuge and nest sites. No hollows identified in Subject Land                                                    | Low                              |
| <i>Phascolarctos cinereus</i>   | Koala                         | Species     | Suboptimal - potential feed trees occur within the Subject Land, however unlikely to provide suitable foraging habitat given the urban setting and fragmentation                                                                                                    | Suboptimal - potential breeding trees occur within the Subject Land, however unlikely to provide suitable breeding habitat given the urban setting and fragmentation | Low - see <b>Section 6.2.2.3</b> |
| <i>Phoniscus papuensis</i>      | Golden-tipped Bat             | Ecosystem   | No - forages in rainforest and sclerophyll forest. Habitat within the Subject Land does not match this description                                                                                                                                                  | No – roosts up to 450 m away from water sources within rainforest gullies                                                                                            | Low                              |
| <i>Saccolaimus flaviventris</i> | Yellow-bellied Sheathtail-bat | Ecosystem   | Yes – this species is a canopy feeder which forages for insects over a wide range of habitat including forests and open country. The canopy trees within the Subject Land may be suitable for foraging, and the urbanised area may attract an abundance of insects. | Suboptimal – will roost in tree hollows and buildings. The Subject Land contains buildings which have the potential to be used, however this is unlikely.            | <b>Low-moderate</b>              |
| <i>Scoteanax rueppellii</i>     | Greater Broad-nosed Bat       | Ecosystem   | No – forages directly along creek lines and rivers for beetles and other large, slow-flying insects.                                                                                                                                                                | Suboptimal - usually roosts in tree hollows, has also been found in buildings. The Subject Land contains buildings which have                                        | Low                              |

| Scientific name                  | Common name             | Credit type | Foraging habitat present?                                                                                                                                                                                 | Breeding habitat present?                                                                                                                           | Habitat suitability |
|----------------------------------|-------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|                                  |                         |             | The Subject Land does not contain creek lines or rivers.                                                                                                                                                  | the potential to be used, however this is unlikely.                                                                                                 |                     |
| <b>Molluscs</b>                  |                         |             |                                                                                                                                                                                                           |                                                                                                                                                     |                     |
| <i>Meridolum maryae</i>          | Maroubra Woodland Snail | Species     | No – restricted distribution to a narrow band of coastline (NSW OEH, 2009)                                                                                                                                | No – restricted distribution to a narrow band of coastline (NSW OEH, 2009)                                                                          | Low                 |
| <i>Pommerhelix duralensis</i>    | Dural Land Snail        | Species     | Suboptimal - this species occurs within forested habitats that have good native cover and woody debris; none of which occur within the Subject Land                                                       | Suboptimal - this species occurs within forested habitats that have good native cover and woody debris; none of which occur within the Subject Land | Low                 |
| <b>Reptiles</b>                  |                         |             |                                                                                                                                                                                                           |                                                                                                                                                     |                     |
| <i>Hoplocephalus bungaroides</i> | Broad-headed Snake      | Dual        | No - largely confined to Triassic and Permian sandstones, shelters in rock crevices and under flat sandstone rocks on exposed cliff edges.<br>The Subject Land does not contain suitable foraging habitat | N/A - excluded in <b>Table 6-3</b>                                                                                                                  | Low                 |
| <i>Varanus rosenbergi</i>        | Rosenberg's Goanna      | Ecosystem   | No - this species is reliant on termite mounds as critical habitat, which were not identified within the Subject Land                                                                                     | No - this species lays eggs in termite mounds which were not identified within the Subject Land                                                     | Low                 |



**Figure 6-1: Threatened species recorded near to the Subject Land**

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## 6.2.2 Further assessment

### 6.2.2.1 Little Lorikeet (*Glossopsitta pusilla*) – moderate

#### Considered further: Yes

Little Lorikeets were identified as having moderate habitat suitability due to the presence of potential feed trees, and their known occurrence in urbanised areas. While the site assessment did not detect this species within the Subject Land, they have been detected in adjacent vegetation within Wilga Park.

Whilst foraging habitat within the Subject Land is likely sub-optimal, and may only be used sporadically due to the fragmented and disturbed nature of the locality, impact mitigation measures have been introduced as a precaution (refer to **Section 8.1**).

### 6.2.2.2 Birds of prey – low-moderate

#### Considered further: No

Two threatened birds of prey were identified as having low-moderate habitat suitability within the Subject Land:

- White-bellied Sea-Eagle (*Haliaeetus leucogaster*)
- Square-tailed Kite (*Lophoictinia isura*).

The Subject Land contains open spaces which may provide habitat for urban-adapted prey items such as rats and possums. Although the proposed development will result in an overall reduction in open/paved spaces, prey items will likely remain, maintaining foraging opportunities for threatened birds of prey. There are no management, or mitigation measures applicable to these threatened species and no further assessment should be required.

### 6.2.2.3 Koala - low

#### Considered further: No

Koalas were identified as having low habitat suitability. Although the planted native vegetation comprises koala feed trees, this vegetation is highly fragmented and occurs within an urban environment. The presence of the koala within such an urbanised area is considered highly unlikely.

### 6.2.2.4 Mammals

#### Considered further: Yes

Three threatened mammal species were identified as having low-moderate or moderate habitat suitability within the Subject Land:

- Grey-headed Flying Fox (*Pteropus poliocephalus*) – low-moderate
- Large Bent-winged Bat (*Miniopterus orianae oceanensis*) – moderate
- Yellow-bellied Sheath-tail-bat (*Saccolaimus flaviventris*) – low-moderate

The Subject Land contains habitat and vegetation which may be suitable for foraging for insects, blossoms and fruits, namely the eucalyptus canopy trees and some exotic trees e.g. Canary Island Date Palm. Additionally, the large Bent-winged Bat and the Yellow-bellied Sheath-tail-bat are known to roost in man-made structures. Prior to construction of a future development, vacated buildings may provide roosting habitat for these two species.

While the site assessment did not detect any of these three species using habitat within the Subject Land, the habitat does have some features which may be used by these species and impact mitigation measures have been introduced as a precaution (refer to **Section 8.1**).

## 7 PRESCRIBED IMPACTS

Prescribed additional biodiversity impacts (prescribed impacts) are the impacts on biodiversity values which are not related to, or are in addition to, native vegetation clearing and habitat loss (per Section 6 of the BAM). Such prescribed impacts (including direct and indirect impacts) are impacts:

- a. On the habitat of threatened entities including:
  - i. Karst, caves, crevices, cliffs, rocks and other geological features of significance
  - ii. Human-made structures
  - iii. Non-native vegetation
- b. On areas connecting threatened species habitat, such as movement corridors
- c. That affect water quality, water bodies and hydrological processes that sustain threatened entities (including from subsidence or upsidence from underground mining)
- d. On threatened and protected animals from turbine strikes from a wind farm
- e. On threatened species or fauna that are part of a TEC from vehicle strikes.

Potential prescribed biodiversity impacts are detailed in **Table 7-1** below.

**Table 7-1: Potential prescribed impacts**

| Feature                                                                            | Present                                                               | Description of feature characteristics and location                                                                                                                                                                                                                                   | Threatened entities that use, are likely to use, or are part of the habitat feature. Where relevant, threatened species or fauna that are part of a TEC or EC, that are at risk of vehicle strike |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Karst, caves, crevices, cliffs, rocks or other geological features of significance | <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No | N/A                                                                                                                                                                                                                                                                                   | N/A                                                                                                                                                                                               |
| Human-made structures                                                              | <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No | Existing apartment buildings.<br>Before any future development is undertaken, the existing apartment buildings will be vacated. The vacated buildings may provide roosting habitat for threatened microbat species that have a low-moderate potential of foraging in the Subject Land | Buildings: <ul style="list-style-type: none"> <li>• Large Bent-winged Bat</li> <li>• Yellow-bellied Sheath-tail-bat</li> </ul>                                                                    |
| Non-native vegetation                                                              | <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No | Exotic vegetation comprises numerous weed species and common landscaping species as listed in <b>Appendix B</b> . Some of these may provide foraging opportunities to threatened species that have a low-moderate potential of foraging in the Subject Land                           | <ul style="list-style-type: none"> <li>• Little Lorikeet</li> <li>• Grey-headed Flying Fox</li> </ul>                                                                                             |
| Habitat connectivity                                                               | <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No | The Planted Native Vegetation within the Subject Land is not an extension of the adjacent Shrimpton's Creek riparian corridor                                                                                                                                                         | N/A                                                                                                                                                                                               |
| Waterbodies, water quality and hydrological processes                              | <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No | The Subject Land does not intersect with waterbodies                                                                                                                                                                                                                                  | N/A                                                                                                                                                                                               |
| Wind turbine strikes (wind farm development only)                                  | <input type="checkbox"/> Yes / <input checked="" type="checkbox"/> No | N/A                                                                                                                                                                                                                                                                                   | N/A                                                                                                                                                                                               |

| Feature         | Present                                                                  | Description of feature characteristics and location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Threatened entities that use, are likely to use, or are part of the habitat feature. Where relevant, threatened species or fauna that are part of a TEC or EC, that are at risk of vehicle strike |
|-----------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Vehicle strikes | <input type="checkbox"/> Yes /<br><input checked="" type="checkbox"/> No | <p>Any future development within the Subject Land will likely result in an increase in traffic movements to/from the Subject Land, particularly during construction stages and daytime hours.</p> <p>An increase in traffic movements may elevate the vehicle strike risk involving diurnal terrestrial mammals and low-flying birds. However, given the Subject Land and its surroundings are already highly urbanised, heavily disturbed, and fragmented – with existing arterial roads experiencing consistently high traffic volumes, the likelihood of an increase in vehicle strikes is for the Proposal is considered low.</p> | <ul style="list-style-type: none"> <li>N/A</li> </ul>                                                                                                                                             |

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**STAGE 2: IMPACT ASSESSMENT (BIODIVERSITY VALUES  
AND PRESCRIBED IMPACTS)**



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## 8 AVOID AND MINIMISE IMPACTS

### 8.1 Avoid and minimise direct, indirect and prescribed impacts

#### 8.1.1 Proposed development location

The location of the Subject Land is within a highly urbanised and disturbed location. Historic use of the Subject Land suggests it has been within a disturbed context for at least 70 years (see historical photos, **Section 1.3**), and has been urbanised for majority of that. The strategic positioning of Subject Land within a densely urbanised context means any future development is already well serviced by public infrastructure (e.g. transport and commercial centres), negating the need for ancillary development if located more remotely. Whilst repositioning the Subject Land and any future developments to another location will mitigate all impacts as described for this specific site, it will likely result in similar impacts or greater being identified at the new location. Therefore, relocating the Subject Land is not recommended as an impact avoidance measure.

#### 8.1.2 Proposed development design

Any future development design and DA should consider the following mitigation measures (as a minimum) to avoid and minimise impacts on biodiversity values:

- Strategic positioning of the future development footprint to maximise use of existing hardstand areas and/or areas which have been historically disturbed. If this is not entirely possible, utilise areas where the native vegetation or threatened species habitat is in the poorest condition
- Allow for the retention of a large portion of planted native vegetation, including mature canopy trees
- Landscaping design to incorporate flora species representative of the pre-clearing vegetation communities present within the Subject Land (PCT 3592: Sydney Coastal Enriched Sandstone Forest and/or PCT 3176: Sydney Enriched Sandstone Moist Forest)
- Incorporate actions and activities in the development design that provide for rehabilitation, ecological restoration and/or ongoing maintenance of retained areas of native vegetation, threatened species and their habitat within the Subject Land
- Development design to minimise the effects of any additional shadowing over the Shrimpton's Creek riparian corridor
- Construction timing to minimise the length of time existing structures are left vacant to reduce to risk of bats using them as roosting sites.

Overall, any future development within the Subject Land has the capacity to reduce impacts (i.e., avoid and minimise) on native vegetation and habitat by utilising existing cleared lands and retaining native vegetation wherever possible. Carefully considered landscaping of a future development has the potential to also yield a net improvement of the ecological condition of vegetation and biodiversity values within the Subject Land. Additionally, timing construction to minimise the length of time building are left vacant will reduce the risk of bats colonising the empty structures.

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## 9 IMPACT ASSESSMENT

### 9.1 Direct impacts

#### 9.1.1 Foraging habitat

Approximately 0.15 ha of planted native and exotic vegetation occurs within the Subject Land. Threatened fauna species that were determined to have a low-moderate or higher probability of utilising this vegetation for foraging (**Table 6-4**), and therefore may be impacted by its removal, are listed in **Table 9-1**.

**Table 9-1: Threatened fauna species which may have suitable foraging habitat impacted by clearing vegetated in the Subject Land**

| Scientific Name                       | Common Name                    | Habitat Suitability |
|---------------------------------------|--------------------------------|---------------------|
| <i>Glossopsitta pusilla</i>           | Little Lorikeet                | Moderate            |
| <i>Miniopterus orianae oceanensis</i> | Large Bent-winged Bat          | Moderate            |
| <i>Pteropus poliocephalus</i>         | Grey-headed Flying-fox         | Low-moderate        |
| <i>Saccolaimus flaviventris</i>       | Yellow-bellied Sheath-tail-bat | Low-moderate        |

#### 9.1.2 Breeding

No potential breeding habitat for threatened species will be directly removed by a future development.

#### 9.1.3 Matter of National Environmental Significance (MNES)

Low-moderate suitable foraging habitat may be removed by future development for one MNES (Cth DCCEEW, 2025a), **Appendix C**.

- Grey-headed Flying-fox (*Pteropus poliocephalus*) – Vulnerable.

Assessments of Significant Impact Criteria were undertaken for the above listed threatened species (**Appendix B**), concluding a future development is highly unlikely to significantly impact on any MNES. As such, future development would not require referral under the EPBC Act.

### 9.2 Indirect impacts

Residual indirect impacts may occur on native vegetation, threatened entities and their habitats beyond the Subject Land as summarised in **Table 9-2**, per Section 8.2 of the BAM. Mitigation measures to minimise or mitigate these indirect impacts are detailed in **Section 8**.

**Table 9-2: Potential indirect impacts**

| Indirect impact                                                             | Project phase           | Nature and extent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Duration   | Potentially impacted entities                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Consequences                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) inadvertent impacts on adjacent habitat or vegetation                   | Construction, operation | <p>Vegetation and habitat directly adjacent to the Subject Land has the potential to experience ongoing indirect impacts as a result of any future development in the Subject Land. Habitat of particular interest includes the Shrimpton's Creek riparian corridor.</p> <p>Although adjacent vegetation and habitats are already quite disturbed given the urbanised location, future developments in the Subject Land have the potential to result in sedimentation and erosion, and mobilisation of contaminants within the Subject Land and into adjoining native vegetation and aquatic habitats, through soil disturbance and construction activities. Sediment laden runoff and spills affect water quality and adversely affect aquatic life. These impacts may begin once construction begins and could continue during operation.</p> | Short term | <ul style="list-style-type: none"> <li>PCT 3176: Sydney Enriched Sandstone Moist Forest (Shrimpton's Creek Riparian Corridor)</li> <li>Any threatened flora and fauna species utilising Shrimpton's Creek riparian corridor</li> <li>Specific threatened fauna that may utilise the Subject Land: <ul style="list-style-type: none"> <li>Little Lorikeet</li> <li>Large Bent-winged Bat</li> <li>Grey-headed Flying-fox</li> <li>Yellow-bellied Sheath-tail-bat</li> </ul> </li> </ul> | <p><b>Low</b></p> <p>Sedimentation and erosion and the mobilisation of contaminants resulting from soil disturbance and construction activities can be successfully minimised through appropriate mitigation measures at the DA and construction stages.</p>                                                                                                                                                                                                             |
| (b) reduced viability of adjacent habitat due to edge effects               | Construction, operation | <p>The following main factors and processes operate at a disturbed edge of an ecological community:</p> <ul style="list-style-type: none"> <li>Microclimate (e.g., localised changes in temperature, wind, light, humidity)</li> <li>Hydrology</li> <li>Altered fire frequency and intensity</li> <li>Invasion by exotic plant and animal species</li> <li>Alteration of soil conditions (e.g., increased sedimentation and nutrient availability)</li> <li>Alteration of vegetation structure (e.g., tree death and increased shrub densities).</li> </ul>                                                                                                                                                                                                                                                                                     | Long term  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p><b>Negligible</b></p> <p>Edge effects are not expected to be exacerbated in the immediate areas surrounding the Subject Land. The surrounding vegetation is already subject to edge effects given its location in a densely urbanised area.</p> <p>Any increases in edge effects may be minimised through appropriate mitigation measures at the DA Stage. This should include efforts to retain native vegetation where possible to buffer any residual impacts.</p> |
| (c) reduced viability of adjacent habitat due to noise, dust or light spill | Construction, operation | <p>An increase in noise is to be expected during construction and operation. As the Subject Land occurs in a highly urbanised area, any species roosting adjacent to the site during the day are likely adapted to such noises. It is not expected that construction would occur throughout the night, and as such would not impact nocturnal species that may utilise adjacent habitats.</p> <p>The operational phase of any future development may result in an increase in light spill into adjacent habitats. This is again</p>                                                                                                                                                                                                                                                                                                             | Short term |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p><b>Negligible</b></p> <p>Nocturnal fauna are not expected to be affected by construction noise or dust. It is unlikely they will be affected by any additional light spill given adaption to the urban environment. Diurnal fauna will likely be unaffected as they would</p>                                                                                                                                                                                         |

| Indirect impact                                                           | Project phase           | Nature and extent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Duration   | Potentially impacted entities                                                                                                 | Consequences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                           |                         | unlikely to have a significant impact on nocturnal species as they are likely adapted to such disturbance.<br>Construction and operation may increase dust in adjacent habitats. Dust can impact on a plant's ability to photosynthesise and may increase plant mortality in the adjacent vegetation. It is however not expected that this would have such an impact to decrease the viability of adjacent habitat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                                                                               | be habituated to such impacts given the urbanised environment.<br>Impacts from dust on nearby vegetation can be minimised through appropriate mitigation measures at the DA Stage and managed appropriately at the construction stage.                                                                                                                                                                                                                                                                                                  |
| (d) transport of weeds and pathogens from the site to adjacent vegetation | Construction            | <p>The potential exists for the introduction of weeds through the use of earth moving equipment and access during construction; actions that may facilitate the spread of weeds into adjoining areas. Mitigation measures to be implemented during the construction and operational phases of any future construction works are recommended to manage and control the incidence and effect of noxious and environmental weeds on the receiving environment.</p> <p>There is potential for high threat weeds to benefit from construction works and, as such, the management of these species is appropriate for the purposes of lowering any indirect impacts on the adjoining environment.</p> <p>Additionally, the following Priority Weed for the Sydney Region was identified within the Subject Property: <i>Asparagus aethiopicus</i> (Ground Asparagus). This listed Priority Weed, as well as all other weeds should be bagged, removed from site and disposed of at a registered waste facility.</p> | Short term |                                                                                                                               | <p><b>Low</b></p> <p>There is the potential for weeds to be transported and spread during construction works. Appropriate hygiene measures such as vehicle and equipment cleaning protocols are to be implemented to ensure that any future operations within the Subject Land do not contribute to the encouragement or spread weed species.</p> <p>All priority weeds onsite prior to any construction works should be bagged, removed from site and disposed of at a registered waste facility prior to construction commencing.</p> |
| (e) increased risk of starvation, exposure and loss of shade or shelter   | Construction, operation | It is highly unlikely that any threatened fauna would be exposed to increased risks from starvation, exposure, and loss of shade and shelter as a result of future development. No habitat is to be removed beyond the Subject Land, and disturbances from noise during construction and operation are unlikely to impact species post-construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Long term  | N/A                                                                                                                           | <p><b>Negligible</b></p> <p>It is unlikely that impacts will be significant as adjacent habitats will continue to provide resources for fauna. Vegetation removal will not fragment adjacent habitats in any way.</p>                                                                                                                                                                                                                                                                                                                   |
| (f) loss of breeding habitats                                             | Construction, operation | An increase in noise is to be expected during construction and operation. As such, there is potential for disturbance to breeding habitats directly adjacent to the Subject Land. Potential indirect impacts include increased light, noise and dust from construction and operation. It is considered unlikely                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Long term  | <ul style="list-style-type: none"> <li>Any threatened fauna species utilising the surrounding habitat for breeding</li> </ul> | <p><b>Low</b></p> <p>Any impacts to threatened species adjacent to the Subject Land is expected to be localised and is highly unlikely to have an overall impact on the bioregional</p>                                                                                                                                                                                                                                                                                                                                                 |

| Indirect impact                                                 | Project phase           | Nature and extent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Duration  | Potentially impacted entities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Consequences                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                 |                         | that future development will result in a loss of adjacent breeding habitats.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | persistence of any threatened species                                                                                                                                                                                                                                                                                                                                                                                |
| (g) trampling of threatened flora species                       | Operation               | Concrete pedestrian paths currently exist through the adjacent reserves and connect to the Subject Land. It is therefore not expected that the risk of trampling in the adjacent reserves will increase as a result of either and construction or operation of future developments.                                                                                                                                                                                                                                                                                                                                                                                                                                   | Long term | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Negligible</b><br>Trampling is not expected to increase due to a future Proposal                                                                                                                                                                                                                                                                                                                                  |
| (h) inhibition of nitrogen fixation and increased soil salinity | Construction            | It is unlikely that the inhibition of nitrogen fixation will affect vegetation adjacent to the Subject Land. Increased soil salinity is highly unlikely to result due to clearing of vegetation leading to the rising of the water table. Clearing will be limited to the Subject Land and as such is not expected to affect vegetation directly adjacent.                                                                                                                                                                                                                                                                                                                                                            |           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Negligible</b>                                                                                                                                                                                                                                                                                                                                                                                                    |
| (i) fertiliser drift                                            | Construction, operation | Fertiliser may be used in landscaping works during future construction and operation phases. Drift can have indirect impacts on adjacent habitats by modifying species composition and altering water quality. Nutrifaction of waterways can increase the occurrence of algal blooms, causing anoxic conditions. Excess nutrients and algal blooms in Shrimpton's Creek due have the potential to spread further into the Lane Cover River, which is in a protected area. Fertiliser drift from the Subject Land during construction and operation therefore may pose a significant impact. Potential indirect impacts may be minimised through appropriate mitigation measures at the DA Stage and during operation. | Long term | <ul style="list-style-type: none"> <li>PCT 3176: Sydney Enriched Sandstone Moist Forest (Shrimpton's Creek Riparian Corridor)</li> <li>Any threatened flora and fauna species utilising Shrimpton's Creek riparian corridor</li> <li>Specific threatened fauna that may utilise the Subject Land: <ul style="list-style-type: none"> <li>Little Lorikeet</li> <li>Large Bent-winged Bat</li> <li>Grey-headed Flying-fox</li> <li>Yellow-bellied Sheathtail-bat</li> </ul> </li> <li>Aquatic habitats, TECs, ECs and PCTs associated with creeks and rivers beyond the scope of this report.</li> </ul> | <b>Moderate</b><br>Fertiliser drift may increase the occurrence of algal blooms in Shrimpton's Creek, causing anoxic conditions. Excess nutrients and algal blooms may also spread into the Lane Cover River, of which Shrimpton's Creek is a tributary.<br><br>Effects on vegetation composition and water quality can be minimised if mitigation measures are employed during construction and operational phases. |
| (j) rubbish dumping                                             | Construction, operation | There is the possibility that rubbish dumping (including littering) in adjacent vegetation will increase during future construction and operation. The dumping/littering of food                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Long term | <ul style="list-style-type: none"> <li>Threatened birds of prey</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Low</b>                                                                                                                                                                                                                                                                                                                                                                                                           |

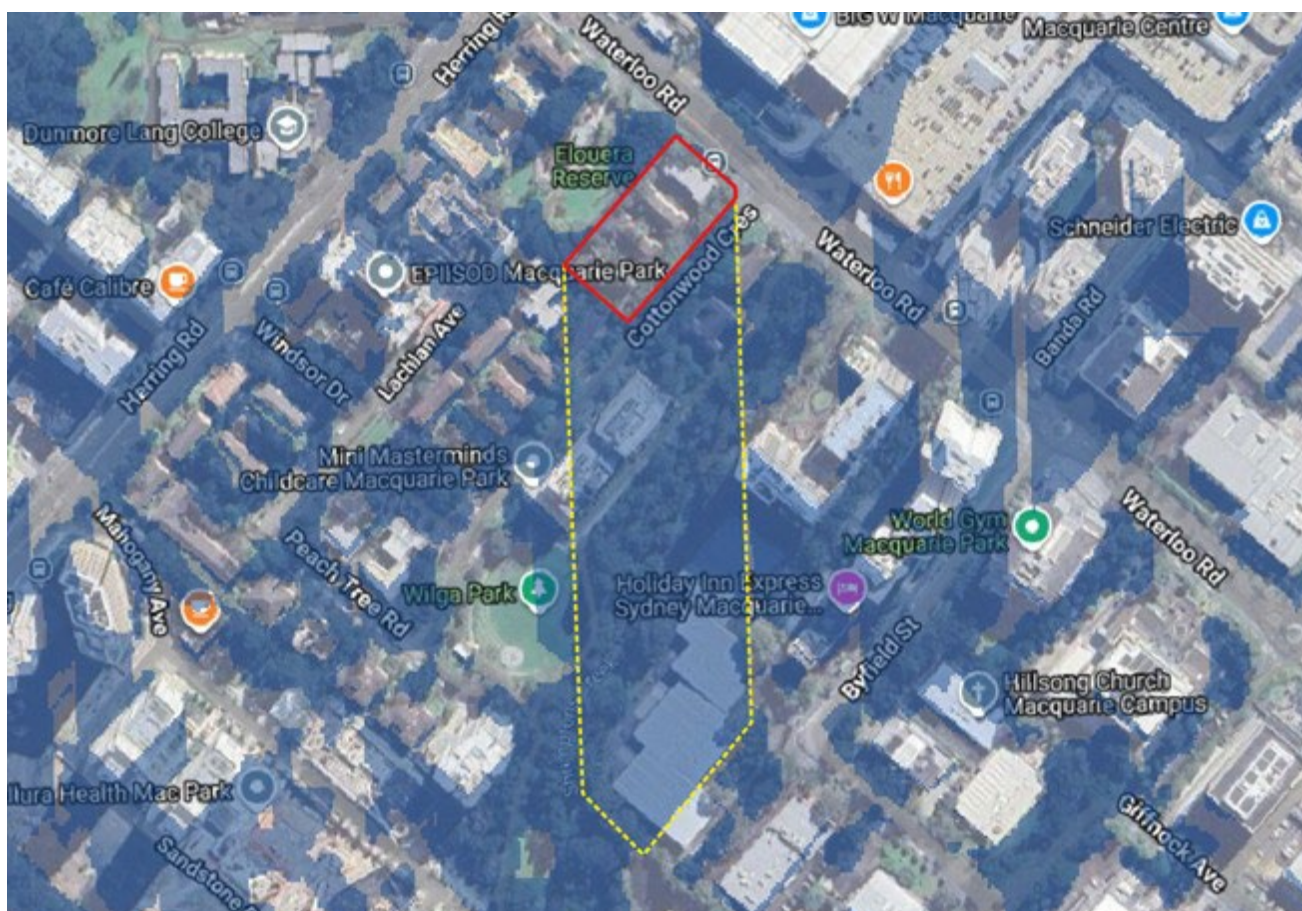
| Indirect impact                                                                                  | Project phase           | Nature and extent                                                                                                                                                                                                                                                                                                                                                                                              | Duration  | Potentially impacted entities                                                               | Consequences                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                  |                         | resources may provide an indirect food source (e.g. rodents), for native fauna including threatened species. However, this may also encourage invasive species into such habitats and increase the risk of vehicle strike to native fauna. This impact can be easily mitigated by the appropriate disposal of rubbish.                                                                                         |           |                                                                                             | Inappropriate rubbish disposal, including of food waste, may attract both native and invasive fauna. This may increase the incidence of vehicle strikes on native fauna and invasive species infestation                                              |
| (k) wood collection                                                                              | N/A                     | Wood collection in the surrounding habitats and vegetated areas is likely non-existent or very minimal due to the urbanised environment and is not expected to increase due to any future development in the Subject Land.                                                                                                                                                                                     | Long term | N/A                                                                                         | <b>Negligible</b><br>Increases in wood collection extremely unlikely                                                                                                                                                                                  |
| (l) bush rock removal and disturbance                                                            | N/A                     | Bush rock removal in the surrounding habitats and vegetated areas is likely non-existent or very minimal due to the urbanised environment and is not expected to increase due to any future development in the Subject Land.                                                                                                                                                                                   | Long term | N/A                                                                                         | <b>Negligible</b><br>Increases in bush rock removal extremely unlikely                                                                                                                                                                                |
| (m) increase in predatory species populations                                                    | N/A                     | Predatory species such as foxes and cats are likely to already inhabit areas within and surrounding the Subject Land. Future development is considered highly unlikely to exacerbate this given the highly urbanised locality.                                                                                                                                                                                 | Long term | N/A                                                                                         | <b>Negligible</b><br>Increases in predatory species highly unlikely                                                                                                                                                                                   |
| (n) increase in pest animal populations                                                          | N/A                     | Pest animal populations (e.g. foxes, feral cats) are likely to already inhabit areas within and surrounding the Subject Land. Future development is considered highly unlikely to exacerbate this given the highly urbanised locality.                                                                                                                                                                         | Long term | N/A                                                                                         | <b>Negligible</b><br>Increases in pest fauna due highly unlikely                                                                                                                                                                                      |
| (o) increased risk of fire                                                                       | N/A                     | It is not expected that future development will alter the bushfire risk of vegetation surrounding the Subject Land given the highly urbanised locality.                                                                                                                                                                                                                                                        | Long term | N/A                                                                                         | <b>Negligible</b><br>Increased risk of bushfire highly unlikely                                                                                                                                                                                       |
| (p) disturbance to specialist breeding and foraging habitat, e.g., beach nesting for shorebirds. | Construction, operation | Hollow bearing trees and other specialist habitat (e.g. caves, rocky outcrops) are highly likely to occur in the Lane Cove National Park. Hollow bearing trees may occur in Shrimpton's Creek Reserve. No hollow bearing trees were identified in the Subject Land.<br><br>As future clearing will be limited to the Subject Land, all other specialist habitats will be retained outside of the Subject Land. | Long term | <ul style="list-style-type: none"> <li>Threatened hollow-dwelling fauna</li> </ul>          | <b>Negligible</b><br>Any impacts to specialist habitat adjacent to the Subject Land, particularly in Shrimpton's Creek Reserve, is expected to be localised and will not have an overall impact on the bioregional persistence of threatened species. |
| (q) Shadowing of Shrimpton's                                                                     | Construction, operation | See detailed discussion below                                                                                                                                                                                                                                                                                                                                                                                  | Long term | <ul style="list-style-type: none"> <li>PCT 3176: Sydney Enriched Sandstone Moist</li> </ul> | <b>Low-moderate</b><br>The vegetation community is associated with mid-stratum,                                                                                                                                                                       |

| Indirect impact     | Project phase | Nature and extent | Duration | Potentially impacted entities                                                                                                                                                                                       | Consequences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|---------------|-------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Creek riparian area |               |                   |          | <p>Forest (Shrimpton's Creek Riparian Corridor)</p> <ul style="list-style-type: none"> <li>Any threatened flora and fauna species utilising this specific portion of Shrimpton's Creek riparian corridor</li> </ul> | <p>shrub and ground cover species that have a tolerance for shade. Canopy species have a tolerance for some partial shade.</p> <p>A hypothetical 205.5 m high building will likely shade some of the northern portions of Shrimpton's Creek riparian corridor for an additional 5 hrs a day (maximum) during the shortest days of the year. During the warmer months, shading will not affect the corridor.</p> <p>It is unlikely the existing vegetation will be significantly impacted. Established canopy trees may marginally slow in growth rate and/or reduce foliage cover. Any seedlings planted as part of revegetation efforts may struggle to establish in low light conditions.</p> |

## (q) Shadowing of Shrimpton's Creek riparian corridor

Potential shadowing over Shrimpton's Creek riparian corridor, created by any future development in the Subject Land, specifically high-rise buildings, is discussed here in detail.

With reference to the SVTM (NSW DCCEEW, 2024), the area of vegetation which may be affected is classified as either 'Non-classified vegetation' or PCT 3176: Sydney Enriched Sandstone Moist Forest, of which this parcel is not associated with a TEC (NSW DCCEEW, 2025d). In reference to the *Ryde Local Environmental Plan 2014* (NSW Legislation, 2014), the Subject Land is classified as AA1, and can have a maximum building height of 65 m. A simplified representation of the shadow a 205.5 m high building (theoretical) will create on June 21st (winter solstice, worst-case scenario) at 12pm is shown in **Plate 9-1**.



**Plate 9-1:** Simplified shadowing diagram for a 205.5 m high building within the Subject Land at 12pm, June 21st, 2025 (winter solstice). Red outline indicates the Subject Land boundary, yellow dashed linework indicates a theoretical shadow extent, the black dotted linework is the approximate boundary of Shrimpton's Creek riparian corridor and blue indicates areas of shadow. Proposed building shadow produced from Shade Map (Shade Map, 2023).

**Plate 9-1** indicates that at approximately 12pm, a shadow created from a theoretical 205.5 m high building within the Subject Land will begin to shade approximately 150 m of vegetation along the Shrimpton's Creek riparian corridor. This shadowing will continue throughout the afternoon, with all the canopy vegetation eventually being affected by shadow until sundown at approximately 5pm. Shadowing from the Macquarie Centre shadows the vegetation between approximately 7am to 8:30am (Shade Map, 2023). This means that during the shortest days of the year, the vegetation in the affected 150 m stretch will receive a minimum of 3.5 hours of sunlight, and will have reduction in sunlight availability by approximately 5 hours. During the warmer months, shadowing from a theoretical building is not expected to impact the riparian area (Shade Map, 2023).

The vegetation mapped as PCT 3176: Sydney Enriched Sandstone Moist Forest is described as:

*A very tall, occasionally extremely tall moist shrubby and ferny sclerophyll open forest. The tree canopy very frequently includes a high cover of Angophora costata, Syncarpia glomulifera and Eucalyptus pilularis*

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with occasional *Eucalyptus piperita*. *Eucalyptus saligna* is rare however abundant on creek lines downslope of shale soils. Commonly there is a tall mid-stratum of *Allocasuarina torulosa*, less frequently *Allocasuarina littoralis*, with *Elaeocarpus reticulatus*, *Pittosporum undulatum* and *Notelaea longifolia*. A smaller shrub layer includes *Leucopogon lanceolatus* and *Polyscias sambucifolia*. Typically, the ground layer is ferny, very frequently with a high cover of *Calochlaena dubia*, *Pteridium esculentum* and occasionally *Blechnum cartilagineum* (NSW DCCEEW, 2025d).

The above-described mid-stratum, shrub and ground layer species are commonly associated with rainforest landscapes and can tolerate shading. Within the Shrimpton's Creek riparian corridor, if these species are present, they will likely already be quite shaded due to the nature of the vegetation formation and any additional shading from a proposed development will likely have little effect. In relation to the canopy species, whilst full sun is generally preferred, *Angophora costata*, *Syncarpia glomulifera*, *Eucalyptus pilularis* and *Eucalyptus saligna* can all tolerate partial shade conditions.

When shade-intolerant species are subjected to excess shade, they can experience slowed growth rates, reduced basal growth area and reduced biomass (West, Glencross and Nichols, 2016), with seedlings more likely to be more severely affected than established trees. In relation to the existing vegetation that will be impacted by any potential shading, it is likely only the canopy species will be impacted, as the other vegetation strata can tolerate high levels of shade. As additional shading from a development in the Subject Land won't be occurring year-round, the impacts are likely to be low and may include a reduction in the growth rate and biomass. If revegetation is proposed for the area, seedlings that require full sun may struggle to establish, and the growth form may become leggy and weakened.

## 9.3 Prescribed impacts

Prescribed impacts identified within the Subject Land (refer to **Section 7**) include:

- Human-made structures
- Non-native vegetation
- Vehicle strikes.

### 9.3.1 Human-made structures

The Subject Land contains human-made structures (i.e., apartment complexes) which may provide opportunistic roosting and foraging habitat for some microbat species. Although the structures are currently inhabited and in good condition, structures vacated prior to construction may provide roosting habitat for the following microbat species that may periodically forage in the Subject Land:

- Large Bent-winged Bat
- Yellow-bellied Sheath-tail-bat

Mitigation measures outlined at the DA Stage may include timing construction works to minimise the length of time the buildings are left vacant and microbat pre-clearing surveys which may mitigate prescribed impacts associated with human-made structures.

### 9.3.2 Non-native vegetation

Two threatened species with suitable habitat within the Subject Land may rely on non-native vegetation as intermittent foraging sources, particularly in urban environments:

- Little Lorikeet
- Grey-headed Flying-fox

Exotic Vegetation within the Subject Land is comprised of ornamental exotic shrubs, groundcovers and occasional trees. Non-native vegetation within the Subject Land which may be foraged by these species is limited to occurrences of *Phoenix canariensis* (Canary Island Date Palm) and *Brachychiton acerifolius* (Illawarra Flame Tree). The removal of these individuals is highly unlikely to adversely affect the persistence of these threatened species and mitigation measures outlined in **Section 9.4** will further ameliorate potential prescribed impacts to non-native vegetation.

## 9.4 Mitigation and Management of Impacts

**Table 9-3** provides recommended mitigation measures for minimising the direct and indirect impacts of future development on biodiversity values. Mitigation measures are indicative only and will be updated following detailed design at the DA Stage.

**Table 9-3: Mitigation and management measures for residual impacts (direct, indirect and prescribed)**

| Impact                                                                                      | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Timing and frequency             | Responsibility                                |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------|
| <b>Indirect</b><br><br>Inadvertent impacts on adjacent habitats                             | Access for future construction is to take place utilising existing cleared/exotic areas of the Subject Land. Temporary fencing should be erected around retained vegetation and suitable habitats. Exclusion zones should be set up at the limit of clearing in accordance with specifications provided in the project Construction Environmental Management Plan (CEMP). Sediment and erosion control is discussed further below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Prior to and during construction | The Proponent and contractors                 |
| <b>Direct; prescribed</b><br><br>Removal of threatened species habitat and habitat features | A suitably qualified Project Ecologist should be engaged prior to clearing works to undertake a pre-clearing inspection of the Subject Land. The pre-clearing inspection will include: <ul style="list-style-type: none"> <li>Targeted surveys for any new threatened species (with focus on threatened flora not previously surveyed)</li> <li>Microbat inspections of all human-made structures proposed for demolition</li> <li>Demarcation of fauna habitat</li> <li>Demarcation of Priority Weeds listed under the <i>Biosecurity Act 2015</i>.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Prior to commencement            | The Proponent, contractors, Project Ecologist |
| Human-made structures                                                                       | Clearing of native vegetation and habitat to be kept to a minimum, with retention of the native canopy species within the Subject Land to be made a priority. If/when clearing does occur, a two-stage clearing protocol should be utilised under the supervision of a suitably qualified Project Ecologist. Stage 1 is intended to disturb the clearing area in order to encourage any resident fauna to leave prior to habitat removal. Stage 1 should be undertaken 24 hours prior to Stage 2 and involves: <ul style="list-style-type: none"> <li>Removal of non-fauna habitat</li> <li>Demarcation of any fauna habitat</li> <li>Mechanical 'knocking' of habitat trees (tree hollows/nests/intense foraging, i.e., with excavator).</li> </ul> The Project Ecologist should be engaged to supervise Stage 2 of the vegetation clearing which involves: <ul style="list-style-type: none"> <li>Mechanical 'knocking' of habitat trees</li> <li>Soft felling/clearing of any fauna habitat identified</li> <li>Project Ecologist inspection of fauna habitat utilising flashlight and/or endoscopic camera</li> <li>Relocating any displaced fauna to suitable habitat or transporting injured fauna to WIRES or veterinary care.</li> </ul> | Prior to and during construction | The Proponent, contractors, Project Ecologist |
|                                                                                             | A procedure for unexpected threatened species finds is to be documented in the CEMP prior to commencement. This plan is to be followed if triggered through pre-clearance surveys.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Prior to and during construction | The Proponent and contractors                 |
|                                                                                             | <i>Australian Standard 4970 (2009) Protection of Trees on Development Sites (AS-4970)</i> outlines that a Tree Protection Zone (TPZ) is the principal means of protecting trees on construction sites. It is an area isolated from construction disturbance so that the tree remains viable. Ideally, works should be avoided within the TPZ.<br><br>A Minor Encroachment is less than 10% of the TPZ and is outside the Structural Root Zone (SRZ). A Minor Encroachment is considered acceptable by AS-4970 when it is compensated for elsewhere and contiguous within the TPZ.<br><br>A Major Encroachment is greater than 10% of the TPZ or inside the SRZ. Major Encroachments generally require root investigations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Prior to and during construction | The Proponent and contractors                 |

| Impact                                                               | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Timing and frequency             | Responsibility                |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------|
|                                                                      | <p>undertaken by non-destructive methods or the use of tree sensitive construction methods.</p> <p>Tree protection fencing is to be installed around all trees proposed for retention within and surrounding the Subject Land.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                               |
|                                                                      | Any woody debris (fallen trees and logs) within the Subject Land is to be relocated to areas of retained native vegetation within the greater Site Boundary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Prior to and during construction | The Proponent and contractors |
| <b>Direct and Prescribed</b><br><br>Removal of non-native vegetation | <p>The removal of non-native and native vegetation may reduce some foraging habitat for threatened species potentially utilising the Subject Land. Although it is highly unlikely to affect the persistence of these threatened species in the region, future landscaping should incorporate native plantings suitable for forging. These species, and all landscaping within the Subject Land should be representative of the locally indigenous ecological communities:</p> <ul style="list-style-type: none"> <li>• PCT 3592: Sydney Coastal Enriched Sandstone Forest</li> <li>• PCT 3176: Sydney Enriched Sandstone Moist Forest</li> </ul>                                                                                                                                                                                                                                                                                                                                                                           | Construction                     | The Proponent and contractors |
| <b>Prescribed</b><br><br>Weeds and Pathogens                         | <p>Hygiene protocols should be implemented to prevent the spread of weeds or pathogens between infected and uninfected areas of the Subject Land and greater Site Boundary.</p> <p>Priority Weeds, as well as all other weeds within the Subject Land should be bagged, removed from site and disposed of at a registered waste facility.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Construction and operation       | The Proponent and contractors |
| <b>Prescribed and indirect</b><br><br>Erosion and sediment impacts   | <p>A site-specific Erosion and Sediment Control Plan is recommended detailing the measures and controls to be applied to minimise erosion and sediment control risks. These may include: runoff, diversion and drainage points; sediment basins and sumps; scour protection; stabilising disturbed areas as soon as possible, fencing and swales; and staged implementation arrangements.</p> <p>The Plan will also include arrangements for managing wet weather events, and working with high surface water levels, including monitoring of potential high-risk events (such as storms) and specific controls and follow-up measures to be applied in the event of wet weather.</p>                                                                                                                                                                                                                                                                                                                                      | Construction                     | The Proponent and contractors |
| Storage and stockpiling of materials                                 | <p>Any temporary structures required for construction, such as temporary facilities and laydown areas, must be located in areas away from native vegetation within cleared/exotic land.</p> <p>All fuels, chemicals and other hazardous materials must be stored in a roofed, fire-protected and impervious bunded area at least 50 m from waterways, drainage lines, basins, flood-affected areas or slopes above 10%. Bunding design must comply with relevant Australian Standards and should generally be in accordance with relevant guidelines.</p> <p>Importing of soils from outside the site should be avoided where possible due to the potential of pathogen and weed introduction. Only weed-free material is to be reused during site rehabilitation.</p> <p>Appropriate hygiene measures such as vehicle and equipment cleaning protocols must be implemented to ensure that operations within the Subject Land do not contribute to the encouragement or spread of feral pest, disease or weed species.</p> | Construction                     | The Proponent and contractors |
| <b>Indirect</b><br><br>Fertiliser drift                              | <p>Fertiliser drift from future landscaping may increase the occurrence of algal blooms in Shrimpton's Creek, causing anoxic conditions. Excess nutrients and algal blooms may also spread into the Lane Cover River, of which Shrimpton's Creek is a tributary.</p> <p>These impacts can be mitigated by implementing appropriately designed stormwater runoff and management devices within the Subject Land such as gross pollutant traps. Water sensitive urban design within the Subject Land is also recommended to increase water retention onsite and filter out excess nutrients before they can enter the catchment.</p>                                                                                                                                                                                                                                                                                                                                                                                         | Construction, operation          | The Proponent and contractors |

| Impact                                                           | Mitigation measure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Timing and frequency | Responsibility                |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------|
| Indirect<br><br>Shadowing of Shrimpton's Creek riparian corridor | <p>Shadowing from a potential 205.5 m high development could shade portions of the Shrimpton's Creek riparian corridor by up to 5 hrs a day during the shortest days of the year. Whilst the impacts to the existing vegetation are expected to be minimal, and are limited to the canopy species, shading may reduce the effectiveness of any revegetation efforts in that region of the corridor. Impacts can be reduced at the DA stage through building design and should consider:</p> <ul style="list-style-type: none"> <li>• Orientation and building placement</li> </ul> <p>Additional mitigation measures may include:</p> <ul style="list-style-type: none"> <li>• Timing and species selection of any revegetation works in the corridor</li> <li>• Conducting a formalised shadow analysis once a building design has been determined</li> <li>• Fauna Assessment within the riparian corridor prior to a DA to identify the vegetation present and any specific species that may be affected by shading.</li> </ul> | DA                   | The Proponent and contractors |

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## Appendix A

### Flora and fauna recorded within the Subject Land

**ApX Table 1: Flora recorded within Subject Land**

| Family               | Scientific Name                  | Common Name             | BC Act | EPBC Act | Exotic |
|----------------------|----------------------------------|-------------------------|--------|----------|--------|
| Sapindaceae          | <i>Acer negundo</i>              | Box Elder               | -      | -        | *      |
| Alliaceae            | <i>Agapanthus praecox</i>        |                         | -      | -        | *      |
| Myrtaceae            | <i>Agonis flexuosa</i>           |                         | -      | -        | *      |
| Asparagaceae         | <i>Asparagus aethiopicus</i>     | Asparagus Fern          | -      | -        | *      |
| Proteaceae           | <i>Banksia integrifolia</i>      | Coast Banksia           | -      | -        |        |
| Malvaceae            | <i>Brachychiton acerifolius</i>  | Illawarra Flame Tree    | -      | -        |        |
| Poaceae              | <i>Bromus catharticus</i>        | Prairie Grass           | -      | -        | *      |
| Myrtaceae            | <i>Callistemon viminalis</i>     | Weeping Bottlebrush     | -      | -        |        |
| Poaceae              | <i>Cenchrus clandestinus</i>     | Kikuyu Grass            | -      | -        | *      |
| Caryophyllaceae      | <i>Cerastium glomeratum</i>      | Mouse-ear Chickweed     | -      | -        | *      |
| Anthericaceae        | <i>Chlorophytum comosum</i>      | Spider Plant            | -      | -        | *      |
| Verbenaceae          | <i>Citharexylum spinosum</i>     |                         | -      | -        | *      |
| Myrtaceae            | <i>Corymbia gummifera</i>        | Red Bloodwood           | -      | -        |        |
| Myrtaceae            | <i>Corymbia maculata</i>         | Spotted Gum             | -      | -        |        |
| Malaceae             | <i>Cotoneaster glaucophyllus</i> |                         | -      | -        | *      |
| Crassulaceae         | <i>Crassula Ovata</i>            | Jade Plant              | -      | -        | *      |
| Poaceae              | <i>Cynodon dactylon</i>          | Common Couch            | -      | -        |        |
| Iridaceae            | <i>Dietes bicolor</i>            |                         | -      | -        | *      |
| Poaceae              | <i>Ehrharta erecta</i>           | Panic Veldtgrass        | -      | -        | *      |
| Myrtaceae            | <i>Eucalyptus botryoides</i>     | Bangalay                | -      | -        |        |
| Myrtaceae            | <i>Eucalyptus pilularis</i>      | Blackbutt               | -      | -        |        |
| Myrtaceae            | <i>Eucalyptus punctata</i>       | Grey Gum                | -      | -        |        |
| Myrtaceae            | <i>Eucalyptus viminalis</i>      | Ribbon Gum              | -      | -        |        |
| Proteaceae           | <i>Hakea dactyloides</i>         | Finger Hakea            | -      | -        |        |
| Araliaceae           | <i>Hedera helix</i>              | English Ivy             | -      | -        | *      |
| Asteraceae           | <i>Hypochaeris glabra</i>        | Smooth Catsear          | -      | -        | *      |
| Bignoniaceae         | <i>Jacaranda mimosifolia</i>     | Jacaranda               | -      | -        | *      |
| Cupressaceae         | <i>Juniperus virginiana</i>      |                         | -      | -        | *      |
| Myrtaceae            | <i>Leptospermum petersonii</i>   | Lemon-scented Teatree   | -      | -        |        |
| Myrtaceae            | <i>Lophostemon confertus</i>     | Brush Box               | -      | -        |        |
| Fabaceae (Faboideae) | <i>Medicago polymorpha</i>       | Burr Medic              | -      | -        | *      |
| Myrtaceae            | <i>Melaleuca quinquenervia</i>   | Broad-leaved Paperbark  | -      | -        |        |
| Araceae              | <i>Monstera deliciosa</i>        | Fruit Salad Plant       | -      | -        | *      |
| Rutaceae             | <i>Murraya paniculata</i>        |                         | -      | -        | *      |
| Davalliaceae         | <i>Nephrolepis cordifolia</i>    | Fishbone Fern           | -      | -        |        |
| Passifloraceae       | <i>Passiflora edulis</i>         | Common Passionfruit     | -      | -        | *      |
| Rutaceae             | <i>Philotheca myoporoides</i>    | Long-leaf Wax Flower    | -      | -        |        |
| Arecaceae            | <i>Phoenix canariensis</i>       | Canary Island Date Palm | -      | -        | *      |
| Malaceae             | <i>Photinia serratifolia</i>     | Chinese Photinia        | -      | -        | *      |
| Fagaceae             | <i>Quercus robur</i>             | English Oak             | -      | -        | *      |
| Malaceae             | <i>Rhaphiolepis indica</i>       | Indian Hawthorn         | -      | -        | *      |

| Family               | Scientific Name             | Common Name       | BC Act | EPBC Act | Exotic |
|----------------------|-----------------------------|-------------------|--------|----------|--------|
| Asteraceae           | <i>Sonchus oleraceus</i>    | Common Sowthistle | -      | -        | *      |
| Asteraceae           | <i>Taraxacum officinale</i> | Dandelion         | -      | -        | *      |
| Fabaceae (Faboideae) | <i>Trifolium repens</i>     | White Clover      | -      | -        | *      |

**Apx Table 2: Fauna recorded within Subject Land**

| Scientific Name                 | Common Name              | BC Act | EPBC Act | Observation Type* |
|---------------------------------|--------------------------|--------|----------|-------------------|
| <i>Cacatua galerita</i>         | Sulphur crested Cockatoo | P      | -        | w                 |
| <i>Cacatua hybrid</i>           | Galah/Pink Cockatoo      | P      | -        | o                 |
| <i>Dacelo novaeguineae</i>      | Laughing Kookaburra      | P      | -        | w                 |
| <i>Gymnorhina tibicen</i>       | Australian Magpie        | P      | -        | o                 |
| <i>Manorina melanocephala</i>   | Noisy Miner              | P      | -        | w                 |
| <i>Trichoglossus haematodus</i> | Rainbow Lorikeet         | P      | -        | o                 |

\*Observation Type: O = Observed; W = Heard Call.

P = Protected

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## Appendix B

# Assessment of Significant Impact Criteria

Assessments of Significant Impact Criteria under the EPBC Act are provided below for threatened species with low-moderate suitable habitat within the Subject Land.

### Vulnerable Fauna

- Grey-headed Flying-fox (*Pteropus poliocephalus*).

#### Assessment of Significant Impact Criteria: Grey-headed Flying-fox

##### Commonwealth assessments – Vulnerable fauna species

###### Lead to a long-term decrease in the size of an important population of a species

Any future proposed development will involve the removal of approximately 0.15 ha of potential foraging habitat for the Grey-headed Flying-fox, limited to sporadic use. No breeding habitat is proposed for impact as no breeding camps occur. Such minor impacts to sporadic potential foraging habitat are highly unlikely to influence the size and functioning of an important population. Therefore, any future proposed development is highly unlikely to lead to a long-term decrease in the size of an important population of this species.

###### Reduce the area of occupancy of the species

Any future proposed development is likely to result in a negligible reduction in the area of occupancy for the Grey-headed Flying-fox given the relatively small area of impact in comparison to the suitable foraging habitat in the surrounding region.

###### Fragment an existing population into two or more populations

Any future proposed development is unlikely to further fragment or isolate the habitat of this species, as the Subject Land exists in a highly fragmented landscape. Vegetation in the Subject Land does not form part of an existing corridor.

###### Adversely affect habitat critical to the survival of an important population

Any future proposed development is unlikely to affect habitat critical to the survival of this species as it is limited to sporadic potential foraging habitat, with no breeding habitat to be impacted.

###### Disrupt the breeding cycle of a population

No breeding habitat is proposed to be impacted by a future development. Therefore, any potential future development is unlikely to disrupt the breeding cycle of a population.

###### Modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline

Any future proposed development will involve the clearing of approximately 0.15 ha of potential foraging habitat for the Grey-headed Flying-fox, limited to sporadic use. This is considered highly unlikely to contribute to a decline in the species, particularly considering the lack of breeding habitat within the Subject Land.

###### Result in invasive species that are harmful to vulnerable species becoming established in the vulnerable species' habitat

There is potential for construction works to import weed species that are harmful to these species, however, the Subject Land already exhibits pest species such as cats. Any future proposed development is not likely to exacerbate the impacts of this existing invasive species.

###### Introduce disease that may cause the species to decline

Any future proposed development is not expected to introduce a disease harmful to this threatened species.

###### Interfere with the recovery of the species

The *National Recovery Plan for the Grey-headed Flying-fox* (Cth DAWE, 2021) lists the following recovery objective: Identify, protect and increase native foraging habitat that is critical to the survival of the Grey-headed Flying-fox. Although any proposed development will likely involve the clearing of vegetation which may provide suitable foraging resources for this species, the small impact area is not considered to be critical habitat. As such, the proposed development is not considered to interfere with the recovery of either species.

###### CONCLUSION

Any future proposed development is not likely to substantially reduce the extent or fragment any populations of the threatened species. Habitat critical to the survival of the threatened species would not be adversely affected by a proposed development. Any future proposed development will not interfere with the recovery of the threatened species.

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### **Commonwealth assessments – Vulnerable fauna species**

On this basis, it is considered that any future proposed development is not likely to have a significant impact on a Commonwealth listed Grey-headed Flying-fix, therefore referral to the Minister is not required.

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## Appendix C

### EPBC Protected Matters Search



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: 17-Apr-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](#).

|                                                              |      |
|--------------------------------------------------------------|------|
| <a href="#">World Heritage Properties:</a>                   | 1    |
| <a href="#">National Heritage Places:</a>                    | 2    |
| <a href="#">Wetlands of International Importance (Ramsar</a> | None |
| <a href="#">Great Barrier Reef Marine Park:</a>              | None |
| <a href="#">Commonwealth Marine Area:</a>                    | None |
| <a href="#">Listed Threatened Ecological Communities:</a>    | 12   |
| <a href="#">Listed Threatened Species:</a>                   | 111  |
| <a href="#">Listed Migratory Species:</a>                    | 59   |

## Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <https://www.dcceew.gov.au/parks-heritage/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

|                                                                     |      |
|---------------------------------------------------------------------|------|
| <a href="#">Commonwealth Lands:</a>                                 | 1087 |
| <a href="#">Commonwealth Heritage Places:</a>                       | 14   |
| <a href="#">Listed Marine Species:</a>                              | 70   |
| <a href="#">Whales and Other Cetaceans:</a>                         | 3    |
| <a href="#">Critical Habitats:</a>                                  | None |
| <a href="#">Commonwealth Reserves Terrestrial:</a>                  | None |
| <a href="#">Australian Marine Parks:</a>                            | None |
| <a href="#">Habitat Critical to the Survival of Marine Turtles:</a> | None |

## Extra Information

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

|                                                         |      |
|---------------------------------------------------------|------|
| <a href="#">State and Territory Reserves:</a>           | 11   |
| <a href="#">Regional Forest Agreements:</a>             | None |
| <a href="#">Nationally Important Wetlands:</a>          | 2    |
| <a href="#">EPBC Act Referrals:</a>                     | 60   |
| <a href="#">Key Ecological Features (Marine):</a>       | None |
| <a href="#">Biologically Important Areas:</a>           | None |
| <a href="#">Bioregional Assessments:</a>                | 1    |
| <a href="#">Geological and Bioregional Assessments:</a> | None |

# Details

## Matters of National Environmental Significance

| World Heritage Properties                                               |       | [ Resource Information ] |                     |
|-------------------------------------------------------------------------|-------|--------------------------|---------------------|
| Name                                                                    | State | Legal Status             | Buffer Status       |
| <a href="#">Australian Convict Sites (Cockatoo Island Convict Site)</a> | NSW   | Declared property        | In buffer area only |

| National Heritage Places                                                                         |       | [ Resource Information ] |                     |
|--------------------------------------------------------------------------------------------------|-------|--------------------------|---------------------|
| Name                                                                                             | State | Legal Status             | Buffer Status       |
| Historic                                                                                         |       |                          |                     |
| <a href="#">Cockatoo Island</a>                                                                  | NSW   | Listed place             | In buffer area only |
| Natural                                                                                          |       |                          |                     |
| <a href="#">Ku-ring-gai Chase National Park, Lion, Long and Spectacle Island Nature Reserves</a> | NSW   | Listed place             | In buffer area only |

| 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       |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------|---------------------|
| <a href="#">Blue Gum High Forest of the Sydney Basin Bioregion</a>                                                            | Critically Endangered | Community likely to occur within area          | In buffer area only |
| <a href="#">Castlereagh Scribbly Gum and Agnes Banks Woodlands of the Sydney Basin Bioregion</a>                              | Endangered            | Community may occurIn feature area within area |                     |
| <a href="#">Coastal Swamp Oak (Casuarina glauca) Forest of New South Wales and South East Queensland ecological community</a> | Endangered            | Community likely to occur within area          | In feature area     |
| <a href="#">Coastal Swamp Sclerophyll Forest of New South Wales and South East Queensland</a>                                 | Endangered            | Community may occurIn feature area within area |                     |
| <a href="#">Coastal Upland Swamps in the Sydney Basin Bioregion</a>                                                           | Endangered            | Community likely to occur within area          | In feature area     |
| <a href="#">Cooks River/Castlereagh Ironbark Forest of the Sydney Basin Bioregion</a>                                         | Critically Endangered | Community likely to occur within area          | In feature area     |
| <a href="#">Eastern Suburbs Banksia Scrub of the Sydney Region</a>                                                            | Critically Endangered | Community may occurIn buffer area within area  | only                |

| Community Name                                                                                                     | Threatened Category   | Presence Text                         | Buffer Status       |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|---------------------|
| <a href="#">River-flat eucalypt forest on coastal floodplains of southern New South Wales and eastern Victoria</a> | Critically Endangered | Community likely to occur within area | In feature area     |
| <a href="#">Shale Sandstone Transition Forest of the Sydney Basin Bioregion</a>                                    | Critically Endangered | Community likely to occur within area | In feature area     |
| <a href="#">Subtropical and Temperate Coastal Saltmarsh</a>                                                        | Vulnerable            | Community likely to occur within area | In buffer area only |
| <a href="#">Turpentine-Ironbark Forest of the Sydney Basin Bioregion</a>                                           | Critically Endangered | Community likely to occur within area | In feature area     |
| <a href="#">Western Sydney Dry Rainforest and Moist Woodland on Shale</a>                                          | Critically 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                                                                  |                       |                                                                   |                     |
| <a href="#">Anthochaera phrygia</a><br>Regent Honeyeater [82338]      | Critically Endangered | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Ardenna grisea</a><br>Sooty Shearwater [82651]            | Vulnerable            | Species or species habitat likely to occur within area            | In buffer area only |
| <a href="#">Arenaria interpres</a><br>Ruddy Turnstone [872]           | Vulnerable            | Foraging, feeding or related behaviour known to occur within area | In buffer area only |
| <a href="#">Botaurus poiciloptilus</a><br>Australasian Bittern [1001] | Endangered            | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]    | Vulnerable            | Foraging, feeding or related behaviour known to occur within area | In feature area     |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]              | Vulnerable            | Species or species habitat known to occur within area             | In feature area     |

| Scientific Name                                                                                | Threatened Category   | Presence Text                                                      | Buffer Status       |
|------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]                                  | Critically Endangered | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Calidris tenuirostris</a><br>Great Knot [862]                                      | Vulnerable            | Foraging, feeding or related behaviour known to occur within area  | In buffer area only |
| <a href="#">Callocephalon fimbriatum</a><br>Gang-gang Cockatoo [768]                           | Endangered            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Calyptorhynchus lathami lathami</a><br>South-eastern Glossy Black-Cockatoo [67036] | Vulnerable            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Charadrius leschenaultii</a><br>Greater Sand Plover, Large Sand Plover [877]       | Vulnerable            | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Charadrius mongolus</a><br>Lesser Sand Plover, Mongolian Plover [879]              | Endangered            | Foraging, feeding or related behaviour known to occur within area  | In buffer area only |
| <a href="#">Climacteris picumnus victoriae</a><br>Brown Treecreeper (south-eastern) [67062]    | Vulnerable            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Dasyornis brachypterus</a><br>Eastern Bristlebird [533]                            | Endangered            | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Diomedea antipodensis</a><br>Antipodean Albatross [64458]                          | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Diomedea antipodensis gibsoni</a><br>Gibson's Albatross [82270]                    | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |

| Scientific Name                                                                                                 | Threatened Category   | Presence Text                                                      | Buffer Status       |
|-----------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Diomedea epomophora</a><br>Southern Royal Albatross [89221]                                         | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Diomedea exulans</a><br>Wandering Albatross [89223]                                                 | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Diomedea sanfordi</a><br>Northern Royal Albatross [64456]                                           | Endangered            | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Erythroriorchis radiatus</a><br>Red Goshawk [942]                                                   | Endangered            | Species or species habitat may occur within area                   | In feature area     |
| <a href="#">Falco hypoleucos</a><br>Grey Falcon [929]                                                           | Vulnerable            | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Gallinago hardwickii</a><br>Latham's Snipe, Japanese Snipe [863]                                    | Vulnerable            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Grantiella picta</a><br>Painted Honeyeater [470]                                                    | Vulnerable            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Hirundapus caudacutus</a><br>White-throated Needletail [682]                                        | Vulnerable            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Lathamus discolor</a><br>Swift Parrot [744]                                                         | Critically Endangered | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Limosa lapponica baueri</a><br>Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit [86380] | Endangered            | Species or species habitat known to occur within area              | In buffer area only |
| <a href="#">Limosa limosa</a><br>Black-tailed Godwit [845]                                                      | Endangered            | Foraging, feeding or related behaviour known to occur within area  | In buffer area only |

| Scientific Name                                                                                                     | Threatened Category   | Presence Text                                                      | Buffer Status       |
|---------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060]                        | Endangered            | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Macronectes halli</a><br>Northern Giant Petrel [1061]                                                   | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Melanodryas cucullata cucullata</a><br>South-eastern Hooded Robin, Hooded Robin (south-eastern) [67093] | Endangered            | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Neophema chrysostoma</a><br>Blue-winged Parrot [726]                                                    | Vulnerable            | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]                               | Critically Endangered | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Pachyptila turtur subantarctica</a><br>Fairy Prion (southern) [64445]                                   | Vulnerable            | Species or species habitat known to occur within area              | In buffer area only |
| <a href="#">Pycnoptilus floccosus</a><br>Pilotbird [525]                                                            | Vulnerable            | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Rostratula australis</a><br>Australian Painted Snipe [77037]                                            | Endangered            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Stagonopleura guttata</a><br>Diamond Firetail [59398]                                                   | Vulnerable            | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Sternula nereis nereis</a><br>Australian Fairy Tern [82950]                                             | Vulnerable            | Breeding likely to occur within area                               | In buffer area only |
| <a href="#">Thalassarche bulleri</a><br>Buller's Albatross, Pacific Albatross [64460]                               | Vulnerable            | Species or species habitat may occur within area                   | In buffer area only |

| Scientific Name                                                                                       | Threatened Category | Presence Text                                                      | Buffer Status       |
|-------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Thalassarche bulleri platei</a><br>Northern Buller's Albatross, Pacific Albatross [82273] | Vulnerable          | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Thalassarche cauta</a><br>Shy Albatross [89224]                                           | Endangered          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Thalassarche eremita</a><br>Chatham Albatross [64457]                                     | Endangered          | Foraging, feeding or related behaviour may occur within area       | In buffer area only |
| <a href="#">Thalassarche impavida</a><br>Campbell Albatross, Campbell Black-browed Albatross [64459]  | Vulnerable          | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Thalassarche melanophris</a><br>Black-browed Albatross [66472]                            | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Thalassarche salvini</a><br>Salvin's Albatross [64463]                                    | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Thalassarche steadi</a><br>White-capped Albatross [64462]                                 | Vulnerable          | Foraging, feeding or related behaviour known to occur within area  | In buffer area only |
| <a href="#">Tringa nebularia</a><br>Common Greenshank, Greenshank [832]                               | Endangered          | Species or species habitat known to occur within area              | In feature area     |
| FISH                                                                                                  |                     |                                                                    |                     |
| <a href="#">Epinephelus daemeli</a><br>Black Rockcod, Black Cod, Saddled Rockcod [68449]              | Vulnerable          | Species or species habitat likely to occur within area             | In buffer area only |
| <a href="#">Macquaria australasica</a><br>Macquarie Perch [66632]                                     | Endangered          | Species or species habitat may occur within area                   | In feature area     |

| Scientific Name                                                                                                                                                        | Threatened Category    | Presence Text                                          | Buffer Status       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------|---------------------|
| <a href="#">Prototroctes maraena</a><br>Australian Grayling [26179]                                                                                                    | Vulnerable             | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Seriolella brama</a><br>Blue Warehou [69374]                                                                                                               | Conservation Dependent | Species or species habitat known to occur within area  | In buffer area only |
| FROG                                                                                                                                                                   |                        |                                                        |                     |
| <a href="#">Heleioporus australiacus australiacus</a><br>Giant Burrowing Frog, Eastern Owl Frog [92013]                                                                | Endangered             | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Litoria aurea</a><br>Green and Golden Bell Frog [1870]                                                                                                     | Vulnerable             | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Mixophyes balbus</a><br>Stuttering Frog, Southern Barred Frog (in Victoria) [1942]                                                                         | Vulnerable             | Species or species habitat likely to occur within area | In feature area     |
| MAMMAL                                                                                                                                                                 |                        |                                                        |                     |
| <a href="#">Chalinolobus dwyeri</a><br>Large-eared Pied Bat, Large Pied Bat [183]                                                                                      | Endangered             | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Dasyurus maculatus maculatus (SE mainland population)</a><br>Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184] | Endangered             | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Isoodon obesulus obesulus</a><br>Southern Brown Bandicoot (eastern), Southern Brown Bandicoot (south-eastern) [68050]                                      | Endangered             | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Notamacropus parma</a><br>Parma Wallaby [89289]                                                                                                            | Vulnerable             | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Petauroides volans</a><br>Greater Glider (southern and central) [254]                                                                                      | Endangered             | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Petaurus australis australis</a><br>Yellow-bellied Glider (south-eastern) [87600]                                                                          | Vulnerable             | Species or species habitat likely to occur within area | In feature area     |

| Scientific Name                                                                                                                                                                                   | Threatened Category | Presence Text                                          | Buffer Status       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------|---------------------|
| <a href="#">Petrogale penicillata</a><br>Brush-tailed Rock-wallaby [225]                                                                                                                          | Vulnerable          | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Phascolarctos cinereus (combined populations of Qld, NSW and the ACT)</a><br>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     |
| <a href="#">Pseudomys novaehollandiae</a><br>New Holland Mouse, Pookila [96]                                                                                                                      | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Pteropus poliocephalus</a><br>Grey-headed Flying-fox [186]                                                                                                                            | Vulnerable          | Roosting known to occur within area                    | In feature area     |
| PLANT                                                                                                                                                                                             |                     |                                                        |                     |
| <a href="#">Acacia bynoeana</a><br>Bynoe's Wattle, Tiny Wattle [8575]                                                                                                                             | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Acacia pubescens</a><br>Downy Wattle, Hairy Stemmed Wattle [18800]                                                                                                                    | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Acacia terminalis subsp. Eastern Sydney (G.P.Phillips 126) listed as Acacia terminalis subsp. terminalis MS</a><br>Sunshine Wattle (Sydney region) [91564]                            | Endangered          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Allocasuarina glareicola</a><br>[21932]                                                                                                                                               | Endangered          | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Asterolasia elegans</a><br>[56780]                                                                                                                                                    | Endangered          | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Caladenia tessellata</a><br>Thick-lipped Spider-orchid, Daddy Long-legs [2119]                                                                                                        | Vulnerable          | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Cryptostylis hunteriana</a><br>Leafless Tongue-orchid [19533]                                                                                                                         | Vulnerable          | Species or species habitat likely to occur within area | In feature area     |

| Scientific Name                                                                                             | Threatened Category                                     | Presence Text                                          | Buffer Status       |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|---------------------|
| <a href="#">Cynanchum elegans</a><br>White-flowered Wax Plant [12533]                                       | Endangered                                              | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Darwinia biflora</a><br>[14619]                                                                 | Vulnerable                                              | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Deyeuxia appressa</a><br>[7438]                                                                 | Endangered                                              | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Epacris sparsa</a><br>[16450]                                                                   | Endangered                                              | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Eucalyptus camfieldii</a><br>Camfield's Stringybark [15460]                                     | Vulnerable                                              | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Eucalyptus cryptica listed as Eucalyptus sp. Cattai (Gregson s.n., 28 Aug 1954)</a><br>[93502]  | Critically Endangered (listed as Eucalyptus sp. Cattai) | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Genoplesium baueri</a><br>Yellow Gnat-orchid, Bauer's Midge Orchid, Brittle Midge Orchid [7528] | Endangered                                              | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Grevillea caleyi</a><br>Caley's Grevillea [9683]                                                | Critically Endangered                                   | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Haloragis exalata subsp. exalata</a><br>Wingless Raspwort, Square Raspwort [24636]              | Vulnerable                                              | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Haloragodendron lucasii</a><br>Hal [6480]                                                       | Endangered                                              | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Hibbertia spanantha</a><br>Julian's Hibbertia [88475]                                           | Critically Endangered                                   | Species or species habitat known to occur within area  | In buffer area only |

| Scientific Name                                                             | Threatened Category | Presence Text                                          | Buffer Status       |
|-----------------------------------------------------------------------------|---------------------|--------------------------------------------------------|---------------------|
| <a href="#">Kunzea rupestris</a><br>[8798]                                  | Vulnerable          | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Lasiopetalum joyceae</a><br>[20311]                             | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Leptospermum deanei</a><br>Deane's Tea-tree [21777]             | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Leucopogon exolasius</a><br>Woronora Beard-heath [14251]        | Vulnerable          | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Melaleuca biconvexa</a><br>Biconvex Paperbark [5583]            | Vulnerable          | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Melaleuca deanei</a><br>Deane's Melaleuca [5818]                | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Micromyrtus blakelyi</a><br>[6870]                              | Vulnerable          | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Persicaria elatior</a><br>Knotweed, Tall Knotweed [5831]        | Vulnerable          | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Persoonia hirsuta</a><br>Hairy Geebung, Hairy Persoonia [19006] | Endangered          | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Persoonia mollis subsp. maxima</a><br>[56075]                   | Endangered          | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Pimelea curviflora var. curviflora</a><br>[4182]                | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |

| Scientific Name                                                                                                                            | Threatened Category   | Presence Text                                          | Buffer Status       |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------|---------------------|
| <a href="#">Pimelea spicata</a><br>Spiked Rice-flower [20834]                                                                              | Endangered            | Species or species habitat likely to occur within area | In feature area     |
| <a href="#">Pomaderris brunnea</a><br>Rufous Pomaderris, Brown Pomaderris [16845]                                                          | Vulnerable            | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Prostanthera densa</a><br>Villous Mintbush [12233]                                                                             | Vulnerable            | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Prostanthera junonis</a><br>Somersby Mintbush [64960]                                                                          | Endangered            | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Prostanthera marifolia</a><br>Seaforth Mintbush [7555]                                                                         | Critically Endangered | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Pterostylis saxicola</a><br>Sydney Plains Greenhood [64537]                                                                    | Endangered            | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Rhizanthella slateri</a><br>Eastern Underground Orchid [11768]                                                                 | Endangered            | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Rhodamnia rubescens</a><br>Scrub Turpentine, Brown Malletwood [15763]                                                          | Critically Endangered | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Rhodomyrtus psidioides</a><br>Native Guava [19162]                                                                             | Critically Endangered | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Syzygium paniculatum</a><br>Magenta Lilly Pilly, Magenta Cherry, Daguba, Scrub Cherry, Creek Lilly Pilly, Brush Cherry [20307] | Vulnerable            | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Thesium australe</a><br>Austral Toadflax, Toadflax [15202]                                                                     | Vulnerable            | Species or species habitat likely to occur within area | In feature area     |

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| Scientific Name                                                                          | Threatened Category    | Presence Text                                          | Buffer Status       |
|------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------|---------------------|
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]                              | Endangered             | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]                                    | Vulnerable             | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768] | Endangered             | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]                        | Vulnerable             | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Hoplocephalus bungaroides</a><br>Broad-headed Snake [1182]                   | Endangered             | Species or species habitat may occur within area       | In feature area     |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                             | Vulnerable             | Species or species habitat known to occur within area  | In buffer area only |
| SHARK                                                                                    |                        |                                                        |                     |
| <a href="#">Sphyrna lewini</a><br>Scalloped Hammerhead [85267]                           | Conservation Dependent | Species or species habitat likely to occur within area | In buffer area only |
| SNAIL                                                                                    |                        |                                                        |                     |
| <a href="#">Pommerhelix duralensis</a><br>Dural Land Snail [85268]                       | Endangered             | Species or species habitat known to occur within area  | In feature area     |
| Listed Migratory Species                                                                 |                        | [ <a href="#">Resource Information</a> ]               |                     |
| Scientific Name                                                                          | Threatened Category    | Presence Text                                          | Buffer Status       |
| Migratory Marine Birds                                                                   |                        |                                                        |                     |
| <a href="#">Anous stolidus</a><br>Common Noddy [825]                                     |                        | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Apus pacificus</a><br>Fork-tailed Swift [678]                                |                        | Species or species habitat likely to occur within area | In feature area     |

| Scientific Name                                                                              | Threatened Category | Presence Text                                                      | Buffer Status       |
|----------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Ardenna grisea</a><br>Sooty Shearwater [82651]                                   | Vulnerable          | Species or species habitat likely to occur within area             | In buffer area only |
| <a href="#">Calonectris leucomelas</a><br>Streaked Shearwater [1077]                         |                     | Species or species habitat known to occur within area              | In buffer area only |
| <a href="#">Diomedea antipodensis</a><br>Antipodean Albatross [64458]                        | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Diomedea epomophora</a><br>Southern Royal Albatross [89221]                      | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Diomedea exulans</a><br>Wandering Albatross [89223]                              | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Diomedea sanfordi</a><br>Northern Royal Albatross [64456]                        | Endangered          | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Fregata ariel</a><br>Lesser Frigatebird, Least Frigatebird [1012]                |                     | Species or species habitat likely to occur within area             | In buffer area only |
| <a href="#">Fregata minor</a><br>Great Frigatebird, Greater Frigatebird [1013]               |                     | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060] | Endangered          | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Macronectes halli</a><br>Northern Giant Petrel [1061]                            | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |

| Scientific Name                                                                                      | Threatened Category | Presence Text                                                      | Buffer Status       |
|------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Phaethon lepturus</a><br>White-tailed Tropicbird [1014]                                  |                     | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Thalassarche bulleri</a><br>Buller's Albatross, Pacific Albatross [64460]                | Vulnerable          | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Thalassarche cauta</a><br>Shy Albatross [89224]                                          | Endangered          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Thalassarche eremita</a><br>Chatham Albatross [64457]                                    | Endangered          | Foraging, feeding or related behaviour may occur within area       | In buffer area only |
| <a href="#">Thalassarche impavida</a><br>Campbell Albatross, Campbell Black-browed Albatross [64459] | Vulnerable          | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Thalassarche melanophris</a><br>Black-browed Albatross [66472]                           | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Thalassarche salvini</a><br>Salvin's Albatross [64463]                                   | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Thalassarche steadi</a><br>White-capped Albatross [64462]                                | Vulnerable          | Foraging, feeding or related behaviour known to occur within area  | In buffer area only |
| Migratory Marine Species                                                                             |                     |                                                                    |                     |
| <a href="#">Balaenoptera edeni</a><br>Bryde's Whale [35]                                             |                     | Species or species habitat may occur within area                   | In buffer area only |
| <a href="#">Caperea marginata</a><br>Pygmy Right Whale [39]                                          |                     | Foraging, feeding or related behaviour may occur within area       | In buffer area only |

| Scientific Name                                                                              | Threatened Category | Presence Text                                          | Buffer Status       |
|----------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------|---------------------|
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]                                  | Endangered          | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]                                        | Vulnerable          | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]     | Endangered          | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]                            | Vulnerable          | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Lagenorhynchus obscurus</a><br>Dusky Dolphin [43]                                |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Lamna nasus</a><br>Porbeagle, Mackerel Shark [83288]                             |                     | Species or species habitat likely to occur within area | In buffer area only |
| <a href="#">Mobula alfredi as Manta alfredi</a><br>Reef Manta Ray, Coastal Manta Ray [90033] |                     | Species or species habitat known to occur within area  | In buffer area only |
| <a href="#">Mobula birostris as Manta birostris</a><br>Giant Manta Ray [90034]               |                     | Species or species habitat may occur within area       | In buffer area only |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                                 | Vulnerable          | Species or species habitat known to occur within area  | In buffer area only |
| Migratory Terrestrial Species                                                                |                     |                                                        |                     |
| <a href="#">Cuculus optatus</a><br>Oriental Cuckoo, Horsfield's Cuckoo [86651]               |                     | Species or species habitat known to occur within area  | In feature area     |
| <a href="#">Hirundapus caudacutus</a><br>White-throated Needletail [682]                     | Vulnerable          | Species or species habitat known to occur within area  | In feature area     |

| Scientific Name                                                       | Threatened Category   | Presence Text                                                     | Buffer Status       |
|-----------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------|---------------------|
| <a href="#">Motacilla flava</a><br>Yellow Wagtail [644]               |                       | Species or species habitat likely to occur within area            | In feature area     |
| Migratory Wetlands Species                                            |                       |                                                                   |                     |
| <a href="#">Actitis hypoleucos</a><br>Common Sandpiper [59309]        |                       | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Arenaria interpres</a><br>Ruddy Turnstone [872]           | Vulnerable            | Foraging, feeding or related behaviour known to occur within area | In buffer area only |
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]    | Vulnerable            | Foraging, feeding or related behaviour known to occur within area | In feature area     |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]              | Vulnerable            | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]         | Critically Endangered | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Calidris melanotos</a><br>Pectoral Sandpiper [858]        |                       | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Calidris pugnax as Philomachus pugnax</a><br>Ruff [91256] |                       | Foraging, feeding or related behaviour known to occur within area | In buffer area only |
| <a href="#">Calidris ruficollis</a><br>Red-necked Stint [860]         |                       | Foraging, feeding or related behaviour known to occur within area | In buffer area only |
| <a href="#">Calidris tenuirostris</a><br>Great Knot [862]             | Vulnerable            | Foraging, feeding or related behaviour known to occur within area | In buffer area only |

| Scientific Name                                                                          | Threatened Category   | Presence Text                                                      | Buffer Status       |
|------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------|---------------------|
| <a href="#">Charadrius bicinctus</a><br>Double-banded Plover [895]                       |                       | Foraging, feeding or related behaviour known to occur within area  | In buffer area only |
| <a href="#">Charadrius leschenaultii</a><br>Greater Sand Plover, Large Sand Plover [877] | Vulnerable            | Species or species habitat likely to occur within area             | In feature area     |
| <a href="#">Charadrius mongolus</a><br>Lesser Sand Plover, Mongolian Plover [879]        | Endangered            | Foraging, feeding or related behaviour known to occur within area  | In buffer area only |
| <a href="#">Gallinago hardwickii</a><br>Latham's Snipe, Japanese Snipe [863]             | Vulnerable            | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Gallinago megala</a><br>Swinhoe's Snipe [864]                                |                       | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Gallinago stenura</a><br>Pin-tailed Snipe [841]                              |                       | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |
| <a href="#">Limosa lapponica</a><br>Bar-tailed Godwit [844]                              |                       | Species or species habitat known to occur within area              | In buffer area only |
| <a href="#">Limosa limosa</a><br>Black-tailed Godwit [845]                               | Endangered            | Foraging, feeding or related behaviour known to occur within area  | In buffer area only |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]    | Critically Endangered | Species or species habitat known to occur within area              | In feature area     |
| <a href="#">Numenius minutus</a><br>Little Curlew, Little Whimbrel [848]                 |                       | Foraging, feeding or related behaviour likely to occur within area | In buffer area only |

| Scientific Name                                                                | Threatened Category | Presence Text                                                     | Buffer Status       |
|--------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------|---------------------|
| <a href="#">Numenius phaeopus</a><br>Whimbrel [849]                            |                     | Foraging, feeding or related behaviour known to occur within area | In buffer area only |
| <a href="#">Pandion haliaetus</a><br>Osprey [952]                              |                     | Species or species habitat known to occur within area             | In buffer area only |
| <a href="#">Pluvialis fulva</a><br>Pacific Golden Plover [25545]               |                     | Foraging, feeding or related behaviour known to occur within area | In buffer area only |
| <a href="#">Tringa brevipes</a><br>Grey-tailed Tattler [851]                   |                     | Foraging, feeding or related behaviour known to occur within area | In buffer area only |
| <a href="#">Tringa nebularia</a><br>Common Greenshank, Greenshank [832]        | Endangered          | Species or species habitat known to occur within area             | In feature area     |
| <a href="#">Tringa stagnatilis</a><br>Marsh Sandpiper, Little Greenshank [833] |                     | Foraging, feeding or related behaviour known to occur within area | In buffer area only |

### Other Matters Protected by the EPBC Act

| Commonwealth Lands                                                                                                                                                                                                                                                                                                                                        |       | [ <a href="#">Resource Information</a> ] |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------|
| 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                            |
| Commonwealth Bank of Australia                                                                                                                                                                                                                                                                                                                            |       |                                          |
| Commonwealth Land - Commonwealth Bank of Australia [13909]                                                                                                                                                                                                                                                                                                | NSW   | In buffer area only                      |
| Commonwealth Land - Commonwealth Bank of Australia [14407]                                                                                                                                                                                                                                                                                                | NSW   | In buffer area only                      |
| Commonwealth Land - Commonwealth Bank of Australia [14408]                                                                                                                                                                                                                                                                                                | NSW   | In buffer area only                      |
| Commonwealth Land - Commonwealth Bank of Australia [14406]                                                                                                                                                                                                                                                                                                | NSW   | In buffer area only                      |
| Commonwealth Trading Bank of Australia                                                                                                                                                                                                                                                                                                                    |       |                                          |
| Commonwealth Land - Commonwealth Trading Bank of Australia [13043]                                                                                                                                                                                                                                                                                        | NSW   | In buffer area only                      |

| Commonwealth Land Name                                                                    | State | Buffer Status       |
|-------------------------------------------------------------------------------------------|-------|---------------------|
| Communications, Information Technology and the Arts - Australian Broadcasting Corporation |       |                     |
| Commonwealth Land - Australian Broadcasting Commission [13112]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Commission [13116]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Commission [13113]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Commission [15605]                            | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [13115]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [13117]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [13114]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [13110]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [13111]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [15606]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [15607]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [13107]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [13109]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [13106]                           | NSW   | In buffer area only |
| Commonwealth Land - Australian Broadcasting Corporation [13108]                           | NSW   | In buffer area only |
| Communications, Information Technology and the Arts - Australian Postal Corporation       |       |                     |
| Commonwealth Land - Australian Postal Commission [16363]                                  | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13134]                                  | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13137]                                  | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13131]                                  | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13118]                                  | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13055]                                  | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13922]                                  | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13923]                                  | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13925]                                  | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13924]                                  | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13104]                                  | NSW   | In buffer area only |

| Commonwealth Land Name                                                            | State | Buffer Status       |
|-----------------------------------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Australian Postal Commission [13039]                          | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13121]                          | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13040]                          | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13047]                          | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13910]                          | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13022]                          | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13091]                          | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13099]                          | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Commission [13094]                          | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Corporation [16164]                         | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Corporation [15603]                         | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Corporation [16051]                         | NSW   | In buffer area only |
| Commonwealth Land - Australian Postal Corporation [16174]                         | NSW   | In buffer area only |
| Communications, Information Technology and the Arts - Telstra Corporation Limited |       |                     |
| Commonwealth Land - Australian & Overseas Telecommunications Corporation [16072]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [16448]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13018]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13951]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13965]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13136]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13132]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13119]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13057]              | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13921]              | NSW   | In buffer area only |

| Commonwealth Land Name                                                | State | Buffer Status       |
|-----------------------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Australian Telecommunications Commission [13926]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [15700]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13129]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [14409]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13092]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13093]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13097]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13095]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Commission [13014]  | NSW   | In buffer area only |
| Commonwealth Land - Australian Telecommunications Corporation [13130] | NSW   | In buffer area only |
| Commonwealth Land - Telstra Corporation Limited [13100]               | NSW   | In buffer area only |
| Commonwealth Land - Telstra Corporation Limited [13911]               | NSW   | In buffer area only |
| Commonwealth Land - Telstra Corporation Limited [13033]               | NSW   | In buffer area only |
| Defence                                                               |       |                     |
| Commonwealth Land - Defence Service Homes Corporation [13010]         | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [13054]         | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [13041]         | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [13042]         | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [13068]         | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [13066]         | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [13067]         | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [13064]         | NSW   | In buffer area only |
| Commonwealth Land - Defence Service Homes Corporation [13065]         | NSW   | In buffer area only |

| Commonwealth Land Name                       | State | Buffer Status       |
|----------------------------------------------|-------|---------------------|
| Defence - COCKATOO ISLAND DOCKYARD [10018]   | NSW   | In buffer area only |
| Defence - CONCORD OFFICE ACCN [11093]        | NSW   | In buffer area only |
| Defence - GLADESVILLE TRAINING DEPOT [10012] | NSW   | In buffer area only |
| Defence - HMAS WATERHEN [10025]              | NSW   | In buffer area only |
| Defence - LEICHHARDT STORES DEPOT [11112]    | NSW   | In buffer area only |
| Defence - NEWINGTON [10627]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10626]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [11008]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10892]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [11007]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10971]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [11004]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10970]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [11009]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10977]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [11006]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10976]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [11003]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10625]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10624]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [11005]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10973]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [11002]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10972]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10752]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10813]                  | NSW   | In buffer area only |
| Defence - NEWINGTON [10753]                  | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10812] | NSW   | In buffer area only |
| Defence - NEWINGTON [10815] | NSW   | In buffer area only |
| Defence - NEWINGTON [10814] | NSW   | In buffer area only |
| Defence - NEWINGTON [10617] | NSW   | In buffer area only |
| Defence - NEWINGTON [10653] | NSW   | In buffer area only |
| Defence - NEWINGTON [10614] | NSW   | In buffer area only |
| Defence - NEWINGTON [10810] | NSW   | In buffer area only |
| Defence - NEWINGTON [10613] | NSW   | In buffer area only |
| Defence - NEWINGTON [10952] | NSW   | In buffer area only |
| Defence - NEWINGTON [10592] | NSW   | In buffer area only |
| Defence - NEWINGTON [10758] | NSW   | In buffer area only |
| Defence - NEWINGTON [10610] | NSW   | In buffer area only |
| Defence - NEWINGTON [10817] | NSW   | In buffer area only |
| Defence - NEWINGTON [10819] | NSW   | In buffer area only |
| Defence - NEWINGTON [10818] | NSW   | In buffer area only |
| Defence - NEWINGTON [10358] | NSW   | In buffer area only |
| Defence - NEWINGTON [10339] | NSW   | In buffer area only |
| Defence - NEWINGTON [10338] | NSW   | In buffer area only |
| Defence - NEWINGTON [10337] | NSW   | In buffer area only |
| Defence - NEWINGTON [10620] | NSW   | In buffer area only |
| Defence - NEWINGTON [10336] | NSW   | In buffer area only |
| Defence - NEWINGTON [10623] | NSW   | In buffer area only |
| Defence - NEWINGTON [10335] | NSW   | In buffer area only |
| Defence - NEWINGTON [10622] | NSW   | In buffer area only |
| Defence - NEWINGTON [10334] | NSW   | In buffer area only |
| Defence - NEWINGTON [10467] | NSW   | In buffer area only |
| Defence - NEWINGTON [10333] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10629] | NSW   | In buffer area only |
| Defence - NEWINGTON [10332] | NSW   | In buffer area only |
| Defence - NEWINGTON [10628] | NSW   | In buffer area only |
| Defence - NEWINGTON [10331] | NSW   | In buffer area only |
| Defence - NEWINGTON [10330] | NSW   | In buffer area only |
| Defence - NEWINGTON [10921] | NSW   | In buffer area only |
| Defence - NEWINGTON [10448] | NSW   | In buffer area only |
| Defence - NEWINGTON [10955] | NSW   | In buffer area only |
| Defence - NEWINGTON [10615] | NSW   | In buffer area only |
| Defence - NEWINGTON [10361] | NSW   | In buffer area only |
| Defence - NEWINGTON [10953] | NSW   | In buffer area only |
| Defence - NEWINGTON [10360] | NSW   | In buffer area only |
| Defence - NEWINGTON [10954] | NSW   | In buffer area only |
| Defence - NEWINGTON [10621] | NSW   | In buffer area only |
| Defence - NEWINGTON [10363] | NSW   | In buffer area only |
| Defence - NEWINGTON [10362] | NSW   | In buffer area only |
| Defence - NEWINGTON [10365] | NSW   | In buffer area only |
| Defence - NEWINGTON [10364] | NSW   | In buffer area only |
| Defence - NEWINGTON [10366] | NSW   | In buffer area only |
| Defence - NEWINGTON [10466] | NSW   | In buffer area only |
| Defence - NEWINGTON [10537] | NSW   | In buffer area only |
| Defence - NEWINGTON [10288] | NSW   | In buffer area only |
| Defence - NEWINGTON [10449] | NSW   | In buffer area only |
| Defence - NEWINGTON [10855] | NSW   | In buffer area only |
| Defence - NEWINGTON [11056] | NSW   | In buffer area only |
| Defence - NEWINGTON [11051] | NSW   | In buffer area only |
| Defence - NEWINGTON [11054] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [11057] | NSW   | In buffer area only |
| Defence - NEWINGTON [10957] | NSW   | In buffer area only |
| Defence - NEWINGTON [10637] | NSW   | In buffer area only |
| Defence - NEWINGTON [11055] | NSW   | In buffer area only |
| Defence - NEWINGTON [11059] | NSW   | In buffer area only |
| Defence - NEWINGTON [11058] | NSW   | In buffer area only |
| Defence - NEWINGTON [10850] | NSW   | In buffer area only |
| Defence - NEWINGTON [10851] | NSW   | In buffer area only |
| Defence - NEWINGTON [11061] | NSW   | In buffer area only |
| Defence - NEWINGTON [11060] | NSW   | In buffer area only |
| Defence - NEWINGTON [11067] | NSW   | In buffer area only |
| Defence - NEWINGTON [10444] | NSW   | In buffer area only |
| Defence - NEWINGTON [11066] | NSW   | In buffer area only |
| Defence - NEWINGTON [10706] | NSW   | In buffer area only |
| Defence - NEWINGTON [10289] | NSW   | In buffer area only |
| Defence - NEWINGTON [10854] | NSW   | In buffer area only |
| Defence - NEWINGTON [10857] | NSW   | In buffer area only |
| Defence - NEWINGTON [10440] | NSW   | In buffer area only |
| Defence - NEWINGTON [10441] | NSW   | In buffer area only |
| Defence - NEWINGTON [10527] | NSW   | In buffer area only |
| Defence - NEWINGTON [11063] | NSW   | In buffer area only |
| Defence - NEWINGTON [11062] | NSW   | In buffer area only |
| Defence - NEWINGTON [10975] | NSW   | In buffer area only |
| Defence - NEWINGTON [10974] | NSW   | In buffer area only |
| Defence - NEWINGTON [10853] | NSW   | In buffer area only |
| Defence - NEWINGTON [10859] | NSW   | In buffer area only |
| Defence - NEWINGTON [10999] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10979] | NSW   | In buffer area only |
| Defence - NEWINGTON [10998] | NSW   | In buffer area only |
| Defence - NEWINGTON [10978] | NSW   | In buffer area only |
| Defence - NEWINGTON [10856] | NSW   | In buffer area only |
| Defence - NEWINGTON [10996] | NSW   | In buffer area only |
| Defence - NEWINGTON [10645] | NSW   | In buffer area only |
| Defence - NEWINGTON [10995] | NSW   | In buffer area only |
| Defence - NEWINGTON [11050] | NSW   | In buffer area only |
| Defence - NEWINGTON [10994] | NSW   | In buffer area only |
| Defence - NEWINGTON [11053] | NSW   | In buffer area only |
| Defence - NEWINGTON [10852] | NSW   | In buffer area only |
| Defence - NEWINGTON [11052] | NSW   | In buffer area only |
| Defence - NEWINGTON [11069] | NSW   | In buffer area only |
| Defence - NEWINGTON [10755] | NSW   | In buffer area only |
| Defence - NEWINGTON [10990] | NSW   | In buffer area only |
| Defence - NEWINGTON [10991] | NSW   | In buffer area only |
| Defence - NEWINGTON [10648] | NSW   | In buffer area only |
| Defence - NEWINGTON [11068] | NSW   | In buffer area only |
| Defence - NEWINGTON [10521] | NSW   | In buffer area only |
| Defence - NEWINGTON [10997] | NSW   | In buffer area only |
| Defence - NEWINGTON [10750] | NSW   | In buffer area only |
| Defence - NEWINGTON [10649] | NSW   | In buffer area only |
| Defence - NEWINGTON [10644] | NSW   | In buffer area only |
| Defence - NEWINGTON [10757] | NSW   | In buffer area only |
| Defence - NEWINGTON [10754] | NSW   | In buffer area only |
| Defence - NEWINGTON [10751] | NSW   | In buffer area only |
| Defence - NEWINGTON [10756] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10589] | NSW   | In buffer area only |
| Defence - NEWINGTON [10588] | NSW   | In buffer area only |
| Defence - NEWINGTON [10683] | NSW   | In buffer area only |
| Defence - NEWINGTON [10684] | NSW   | In buffer area only |
| Defence - NEWINGTON [10384] | NSW   | In buffer area only |
| Defence - NEWINGTON [10565] | NSW   | In buffer area only |
| Defence - NEWINGTON [10385] | NSW   | In buffer area only |
| Defence - NEWINGTON [10761] | NSW   | In buffer area only |
| Defence - NEWINGTON [10680] | NSW   | In buffer area only |
| Defence - NEWINGTON [10643] | NSW   | In buffer area only |
| Defence - NEWINGTON [10958] | NSW   | In buffer area only |
| Defence - NEWINGTON [10522] | NSW   | In buffer area only |
| Defence - NEWINGTON [10682] | NSW   | In buffer area only |
| Defence - NEWINGTON [10762] | NSW   | In buffer area only |
| Defence - NEWINGTON [10681] | NSW   | In buffer area only |
| Defence - NEWINGTON [10763] | NSW   | In buffer area only |
| Defence - NEWINGTON [10647] | NSW   | In buffer area only |
| Defence - NEWINGTON [10646] | NSW   | In buffer area only |
| Defence - NEWINGTON [10689] | NSW   | In buffer area only |
| Defence - NEWINGTON [10641] | NSW   | In buffer area only |
| Defence - NEWINGTON [10688] | NSW   | In buffer area only |
| Defence - NEWINGTON [10640] | NSW   | In buffer area only |
| Defence - NEWINGTON [10383] | NSW   | In buffer area only |
| Defence - NEWINGTON [10382] | NSW   | In buffer area only |
| Defence - NEWINGTON [10381] | NSW   | In buffer area only |
| Defence - NEWINGTON [10902] | NSW   | In buffer area only |
| Defence - NEWINGTON [10380] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10904] | NSW   | In buffer area only |
| Defence - NEWINGTON [10556] | NSW   | In buffer area only |
| Defence - NEWINGTON [10903] | NSW   | In buffer area only |
| Defence - NEWINGTON [10906] | NSW   | In buffer area only |
| Defence - NEWINGTON [10905] | NSW   | In buffer area only |
| Defence - NEWINGTON [10709] | NSW   | In buffer area only |
| Defence - NEWINGTON [10468] | NSW   | In buffer area only |
| Defence - NEWINGTON [10907] | NSW   | In buffer area only |
| Defence - NEWINGTON [10678] | NSW   | In buffer area only |
| Defence - NEWINGTON [10671] | NSW   | In buffer area only |
| Defence - NEWINGTON [10869] | NSW   | In buffer area only |
| Defence - NEWINGTON [10388] | NSW   | In buffer area only |
| Defence - NEWINGTON [10679] | NSW   | In buffer area only |
| Defence - NEWINGTON [10868] | NSW   | In buffer area only |
| Defence - NEWINGTON [10389] | NSW   | In buffer area only |
| Defence - NEWINGTON [10866] | NSW   | In buffer area only |
| Defence - NEWINGTON [10865] | NSW   | In buffer area only |
| Defence - NEWINGTON [10864] | NSW   | In buffer area only |
| Defence - NEWINGTON [10863] | NSW   | In buffer area only |
| Defence - NEWINGTON [10862] | NSW   | In buffer area only |
| Defence - NEWINGTON [10861] | NSW   | In buffer area only |
| Defence - NEWINGTON [10860] | NSW   | In buffer area only |
| Defence - NEWINGTON [10670] | NSW   | In buffer area only |
| Defence - NEWINGTON [10673] | NSW   | In buffer area only |
| Defence - NEWINGTON [10672] | NSW   | In buffer area only |
| Defence - NEWINGTON [10675] | NSW   | In buffer area only |
| Defence - NEWINGTON [10674] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10677] | NSW   | In buffer area only |
| Defence - NEWINGTON [10676] | NSW   | In buffer area only |
| Defence - NEWINGTON [10770] | NSW   | In buffer area only |
| Defence - NEWINGTON [10771] | NSW   | In buffer area only |
| Defence - NEWINGTON [10772] | NSW   | In buffer area only |
| Defence - NEWINGTON [10721] | NSW   | In buffer area only |
| Defence - NEWINGTON [10722] | NSW   | In buffer area only |
| Defence - NEWINGTON [10946] | NSW   | In buffer area only |
| Defence - NEWINGTON [10720] | NSW   | In buffer area only |
| Defence - NEWINGTON [10703] | NSW   | In buffer area only |
| Defence - NEWINGTON [10959] | NSW   | In buffer area only |
| Defence - NEWINGTON [10369] | NSW   | In buffer area only |
| Defence - NEWINGTON [10532] | NSW   | In buffer area only |
| Defence - NEWINGTON [10367] | NSW   | In buffer area only |
| Defence - NEWINGTON [10368] | NSW   | In buffer area only |
| Defence - NEWINGTON [10773] | NSW   | In buffer area only |
| Defence - NEWINGTON [10774] | NSW   | In buffer area only |
| Defence - NEWINGTON [10947] | NSW   | In buffer area only |
| Defence - NEWINGTON [10777] | NSW   | In buffer area only |
| Defence - NEWINGTON [10778] | NSW   | In buffer area only |
| Defence - NEWINGTON [10775] | NSW   | In buffer area only |
| Defence - NEWINGTON [10776] | NSW   | In buffer area only |
| Defence - NEWINGTON [11001] | NSW   | In buffer area only |
| Defence - NEWINGTON [11000] | NSW   | In buffer area only |
| Defence - NEWINGTON [10779] | NSW   | In buffer area only |
| Defence - NEWINGTON [10243] | NSW   | In buffer area only |
| Defence - NEWINGTON [10244] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10568] | NSW   | In buffer area only |
| Defence - NEWINGTON [10247] | NSW   | In buffer area only |
| Defence - NEWINGTON [10685] | NSW   | In buffer area only |
| Defence - NEWINGTON [10245] | NSW   | In buffer area only |
| Defence - NEWINGTON [10246] | NSW   | In buffer area only |
| Defence - NEWINGTON [10728] | NSW   | In buffer area only |
| Defence - NEWINGTON [10729] | NSW   | In buffer area only |
| Defence - NEWINGTON [10687] | NSW   | In buffer area only |
| Defence - NEWINGTON [10686] | NSW   | In buffer area only |
| Defence - NEWINGTON [10567] | NSW   | In buffer area only |
| Defence - NEWINGTON [10724] | NSW   | In buffer area only |
| Defence - NEWINGTON [10566] | NSW   | In buffer area only |
| Defence - NEWINGTON [10725] | NSW   | In buffer area only |
| Defence - NEWINGTON [10726] | NSW   | In buffer area only |
| Defence - NEWINGTON [10564] | NSW   | In buffer area only |
| Defence - NEWINGTON [10727] | NSW   | In buffer area only |
| Defence - NEWINGTON [10607] | NSW   | In buffer area only |
| Defence - NEWINGTON [10608] | NSW   | In buffer area only |
| Defence - NEWINGTON [10609] | NSW   | In buffer area only |
| Defence - NEWINGTON [10843] | NSW   | In buffer area only |
| Defence - NEWINGTON [10894] | NSW   | In buffer area only |
| Defence - NEWINGTON [11070] | NSW   | In buffer area only |
| Defence - NEWINGTON [10616] | NSW   | In buffer area only |
| Defence - NEWINGTON [10582] | NSW   | In buffer area only |
| Defence - NEWINGTON [10583] | NSW   | In buffer area only |
| Defence - NEWINGTON [10580] | NSW   | In buffer area only |
| Defence - NEWINGTON [10581] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10586] | NSW   | In buffer area only |
| Defence - NEWINGTON [10587] | NSW   | In buffer area only |
| Defence - NEWINGTON [10584] | NSW   | In buffer area only |
| Defence - NEWINGTON [10585] | NSW   | In buffer area only |
| Defence - NEWINGTON [10249] | NSW   | In buffer area only |
| Defence - NEWINGTON [10460] | NSW   | In buffer area only |
| Defence - NEWINGTON [10867] | NSW   | In buffer area only |
| Defence - NEWINGTON [10508] | NSW   | In buffer area only |
| Defence - NEWINGTON [10318] | NSW   | In buffer area only |
| Defence - NEWINGTON [10462] | NSW   | In buffer area only |
| Defence - NEWINGTON [10461] | NSW   | In buffer area only |
| Defence - NEWINGTON [10464] | NSW   | In buffer area only |
| Defence - NEWINGTON [11065] | NSW   | In buffer area only |
| Defence - NEWINGTON [10509] | NSW   | In buffer area only |
| Defence - NEWINGTON [10465] | NSW   | In buffer area only |
| Defence - NEWINGTON [11064] | NSW   | In buffer area only |
| Defence - NEWINGTON [10313] | NSW   | In buffer area only |
| Defence - NEWINGTON [10312] | NSW   | In buffer area only |
| Defence - NEWINGTON [10310] | NSW   | In buffer area only |
| Defence - NEWINGTON [10506] | NSW   | In buffer area only |
| Defence - NEWINGTON [10507] | NSW   | In buffer area only |
| Defence - NEWINGTON [10500] | NSW   | In buffer area only |
| Defence - NEWINGTON [10501] | NSW   | In buffer area only |
| Defence - NEWINGTON [10262] | NSW   | In buffer area only |
| Defence - NEWINGTON [10504] | NSW   | In buffer area only |
| Defence - NEWINGTON [10505] | NSW   | In buffer area only |
| Defence - NEWINGTON [10502] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10503] | NSW   | In buffer area only |
| Defence - NEWINGTON [10463] | NSW   | In buffer area only |
| Defence - NEWINGTON [10264] | NSW   | In buffer area only |
| Defence - NEWINGTON [10267] | NSW   | In buffer area only |
| Defence - NEWINGTON [10268] | NSW   | In buffer area only |
| Defence - NEWINGTON [10265] | NSW   | In buffer area only |
| Defence - NEWINGTON [10811] | NSW   | In buffer area only |
| Defence - NEWINGTON [10269] | NSW   | In buffer area only |
| Defence - NEWINGTON [10260] | NSW   | In buffer area only |
| Defence - NEWINGTON [10263] | NSW   | In buffer area only |
| Defence - NEWINGTON [10266] | NSW   | In buffer area only |
| Defence - NEWINGTON [10261] | NSW   | In buffer area only |
| Defence - NEWINGTON [10835] | NSW   | In buffer area only |
| Defence - NEWINGTON [10834] | NSW   | In buffer area only |
| Defence - NEWINGTON [10837] | NSW   | In buffer area only |
| Defence - NEWINGTON [10836] | NSW   | In buffer area only |
| Defence - NEWINGTON [10831] | NSW   | In buffer area only |
| Defence - NEWINGTON [10830] | NSW   | In buffer area only |
| Defence - NEWINGTON [10833] | NSW   | In buffer area only |
| Defence - NEWINGTON [10832] | NSW   | In buffer area only |
| Defence - NEWINGTON [10493] | NSW   | In buffer area only |
| Defence - NEWINGTON [10934] | NSW   | In buffer area only |
| Defence - NEWINGTON [10937] | NSW   | In buffer area only |
| Defence - NEWINGTON [10935] | NSW   | In buffer area only |
| Defence - NEWINGTON [10932] | NSW   | In buffer area only |
| Defence - NEWINGTON [10933] | NSW   | In buffer area only |
| Defence - NEWINGTON [10839] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10838] | NSW   | In buffer area only |
| Defence - NEWINGTON [10723] | NSW   | In buffer area only |
| Defence - NEWINGTON [10799] | NSW   | In buffer area only |
| Defence - NEWINGTON [10798] | NSW   | In buffer area only |
| Defence - NEWINGTON [10569] | NSW   | In buffer area only |
| Defence - NEWINGTON [10618] | NSW   | In buffer area only |
| Defence - NEWINGTON [10638] | NSW   | In buffer area only |
| Defence - NEWINGTON [10891] | NSW   | In buffer area only |
| Defence - NEWINGTON [10634] | NSW   | In buffer area only |
| Defence - NEWINGTON [10635] | NSW   | In buffer area only |
| Defence - NEWINGTON [10636] | NSW   | In buffer area only |
| Defence - NEWINGTON [10890] | NSW   | In buffer area only |
| Defence - NEWINGTON [10346] | NSW   | In buffer area only |
| Defence - NEWINGTON [10410] | NSW   | In buffer area only |
| Defence - NEWINGTON [10492] | NSW   | In buffer area only |
| Defence - NEWINGTON [10349] | NSW   | In buffer area only |
| Defence - NEWINGTON [10705] | NSW   | In buffer area only |
| Defence - NEWINGTON [10702] | NSW   | In buffer area only |
| Defence - NEWINGTON [10707] | NSW   | In buffer area only |
| Defence - NEWINGTON [10704] | NSW   | In buffer area only |
| Defence - NEWINGTON [10701] | NSW   | In buffer area only |
| Defence - NEWINGTON [10700] | NSW   | In buffer area only |
| Defence - NEWINGTON [10429] | NSW   | In buffer area only |
| Defence - NEWINGTON [10713] | NSW   | In buffer area only |
| Defence - NEWINGTON [10539] | NSW   | In buffer area only |
| Defence - NEWINGTON [10710] | NSW   | In buffer area only |
| Defence - NEWINGTON [10715] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10535] | NSW   | In buffer area only |
| Defence - NEWINGTON [10712] | NSW   | In buffer area only |
| Defence - NEWINGTON [10538] | NSW   | In buffer area only |
| Defence - NEWINGTON [10717] | NSW   | In buffer area only |
| Defence - NEWINGTON [10714] | NSW   | In buffer area only |
| Defence - NEWINGTON [10347] | NSW   | In buffer area only |
| Defence - NEWINGTON [10344] | NSW   | In buffer area only |
| Defence - NEWINGTON [10345] | NSW   | In buffer area only |
| Defence - NEWINGTON [10342] | NSW   | In buffer area only |
| Defence - NEWINGTON [10343] | NSW   | In buffer area only |
| Defence - NEWINGTON [10340] | NSW   | In buffer area only |
| Defence - NEWINGTON [10341] | NSW   | In buffer area only |
| Defence - NEWINGTON [10348] | NSW   | In buffer area only |
| Defence - NEWINGTON [10420] | NSW   | In buffer area only |
| Defence - NEWINGTON [10716] | NSW   | In buffer area only |
| Defence - NEWINGTON [10650] | NSW   | In buffer area only |
| Defence - NEWINGTON [10651] | NSW   | In buffer area only |
| Defence - NEWINGTON [10652] | NSW   | In buffer area only |
| Defence - NEWINGTON [10490] | NSW   | In buffer area only |
| Defence - NEWINGTON [10491] | NSW   | In buffer area only |
| Defence - NEWINGTON [10719] | NSW   | In buffer area only |
| Defence - NEWINGTON [10718] | NSW   | In buffer area only |
| Defence - NEWINGTON [11027] | NSW   | In buffer area only |
| Defence - NEWINGTON [10711] | NSW   | In buffer area only |
| Defence - NEWINGTON [10494] | NSW   | In buffer area only |
| Defence - NEWINGTON [10497] | NSW   | In buffer area only |
| Defence - NEWINGTON [10496] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10458] | NSW   | In buffer area only |
| Defence - NEWINGTON [10956] | NSW   | In buffer area only |
| Defence - NEWINGTON [10840] | NSW   | In buffer area only |
| Defence - NEWINGTON [10708] | NSW   | In buffer area only |
| Defence - NEWINGTON [10428] | NSW   | In buffer area only |
| Defence - NEWINGTON [11028] | NSW   | In buffer area only |
| Defence - NEWINGTON [11029] | NSW   | In buffer area only |
| Defence - NEWINGTON [10533] | NSW   | In buffer area only |
| Defence - NEWINGTON [11020] | NSW   | In buffer area only |
| Defence - NEWINGTON [11026] | NSW   | In buffer area only |
| Defence - NEWINGTON [11025] | NSW   | In buffer area only |
| Defence - NEWINGTON [11022] | NSW   | In buffer area only |
| Defence - NEWINGTON [11021] | NSW   | In buffer area only |
| Defence - NEWINGTON [11024] | NSW   | In buffer area only |
| Defence - NEWINGTON [11023] | NSW   | In buffer area only |
| Defence - NEWINGTON [10359] | NSW   | In buffer area only |
| Defence - NEWINGTON [10560] | NSW   | In buffer area only |
| Defence - NEWINGTON [10759] | NSW   | In buffer area only |
| Defence - NEWINGTON [10791] | NSW   | In buffer area only |
| Defence - NEWINGTON [10415] | NSW   | In buffer area only |
| Defence - NEWINGTON [10414] | NSW   | In buffer area only |
| Defence - NEWINGTON [10417] | NSW   | In buffer area only |
| Defence - NEWINGTON [10536] | NSW   | In buffer area only |
| Defence - NEWINGTON [10793] | NSW   | In buffer area only |
| Defence - NEWINGTON [10792] | NSW   | In buffer area only |
| Defence - NEWINGTON [10790] | NSW   | In buffer area only |
| Defence - NEWINGTON [10797] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10796] | NSW   | In buffer area only |
| Defence - NEWINGTON [10795] | NSW   | In buffer area only |
| Defence - NEWINGTON [10794] | NSW   | In buffer area only |
| Defence - NEWINGTON [10418] | NSW   | In buffer area only |
| Defence - NEWINGTON [10419] | NSW   | In buffer area only |
| Defence - NEWINGTON [10534] | NSW   | In buffer area only |
| Defence - NEWINGTON [10350] | NSW   | In buffer area only |
| Defence - NEWINGTON [10351] | NSW   | In buffer area only |
| Defence - NEWINGTON [10352] | NSW   | In buffer area only |
| Defence - NEWINGTON [10353] | NSW   | In buffer area only |
| Defence - NEWINGTON [10354] | NSW   | In buffer area only |
| Defence - NEWINGTON [10355] | NSW   | In buffer area only |
| Defence - NEWINGTON [10356] | NSW   | In buffer area only |
| Defence - NEWINGTON [10357] | NSW   | In buffer area only |
| Defence - NEWINGTON [10612] | NSW   | In buffer area only |
| Defence - NEWINGTON [10412] | NSW   | In buffer area only |
| Defence - NEWINGTON [10413] | NSW   | In buffer area only |
| Defence - NEWINGTON [10411] | NSW   | In buffer area only |
| Defence - NEWINGTON [10416] | NSW   | In buffer area only |
| Defence - NEWINGTON [10600] | NSW   | In buffer area only |
| Defence - NEWINGTON [10373] | NSW   | In buffer area only |
| Defence - NEWINGTON [10602] | NSW   | In buffer area only |
| Defence - NEWINGTON [10601] | NSW   | In buffer area only |
| Defence - NEWINGTON [10604] | NSW   | In buffer area only |
| Defence - NEWINGTON [10603] | NSW   | In buffer area only |
| Defence - NEWINGTON [10606] | NSW   | In buffer area only |
| Defence - NEWINGTON [10605] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10436] | NSW   | In buffer area only |
| Defence - NEWINGTON [10435] | NSW   | In buffer area only |
| Defence - NEWINGTON [10434] | NSW   | In buffer area only |
| Defence - NEWINGTON [10530] | NSW   | In buffer area only |
| Defence - NEWINGTON [10531] | NSW   | In buffer area only |
| Defence - NEWINGTON [10498] | NSW   | In buffer area only |
| Defence - NEWINGTON [10663] | NSW   | In buffer area only |
| Defence - NEWINGTON [10662] | NSW   | In buffer area only |
| Defence - NEWINGTON [10742] | NSW   | In buffer area only |
| Defence - NEWINGTON [10599] | NSW   | In buffer area only |
| Defence - NEWINGTON [10598] | NSW   | In buffer area only |
| Defence - NEWINGTON [10597] | NSW   | In buffer area only |
| Defence - NEWINGTON [10596] | NSW   | In buffer area only |
| Defence - NEWINGTON [10421] | NSW   | In buffer area only |
| Defence - NEWINGTON [10658] | NSW   | In buffer area only |
| Defence - NEWINGTON [10657] | NSW   | In buffer area only |
| Defence - NEWINGTON [10654] | NSW   | In buffer area only |
| Defence - NEWINGTON [10656] | NSW   | In buffer area only |
| Defence - NEWINGTON [10655] | NSW   | In buffer area only |
| Defence - NEWINGTON [10736] | NSW   | In buffer area only |
| Defence - NEWINGTON [10594] | NSW   | In buffer area only |
| Defence - NEWINGTON [10735] | NSW   | In buffer area only |
| Defence - NEWINGTON [10593] | NSW   | In buffer area only |
| Defence - NEWINGTON [10737] | NSW   | In buffer area only |
| Defence - NEWINGTON [10595] | NSW   | In buffer area only |
| Defence - NEWINGTON [10738] | NSW   | In buffer area only |
| Defence - NEWINGTON [10962] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10257] | NSW   | In buffer area only |
| Defence - NEWINGTON [10734] | NSW   | In buffer area only |
| Defence - NEWINGTON [10256] | NSW   | In buffer area only |
| Defence - NEWINGTON [10739] | NSW   | In buffer area only |
| Defence - NEWINGTON [10590] | NSW   | In buffer area only |
| Defence - NEWINGTON [10748] | NSW   | In buffer area only |
| Defence - NEWINGTON [10660] | NSW   | In buffer area only |
| Defence - NEWINGTON [10661] | NSW   | In buffer area only |
| Defence - NEWINGTON [10963] | NSW   | In buffer area only |
| Defence - NEWINGTON [10745] | NSW   | In buffer area only |
| Defence - NEWINGTON [10732] | NSW   | In buffer area only |
| Defence - NEWINGTON [10731] | NSW   | In buffer area only |
| Defence - NEWINGTON [10743] | NSW   | In buffer area only |
| Defence - NEWINGTON [10740] | NSW   | In buffer area only |
| Defence - NEWINGTON [10747] | NSW   | In buffer area only |
| Defence - NEWINGTON [10913] | NSW   | In buffer area only |
| Defence - NEWINGTON [10744] | NSW   | In buffer area only |
| Defence - NEWINGTON [10280] | NSW   | In buffer area only |
| Defence - NEWINGTON [10741] | NSW   | In buffer area only |
| Defence - NEWINGTON [10918] | NSW   | In buffer area only |
| Defence - NEWINGTON [10746] | NSW   | In buffer area only |
| Defence - NEWINGTON [10919] | NSW   | In buffer area only |
| Defence - NEWINGTON [10917] | NSW   | In buffer area only |
| Defence - NEWINGTON [10910] | NSW   | In buffer area only |
| Defence - NEWINGTON [10911] | NSW   | In buffer area only |
| Defence - NEWINGTON [10733] | NSW   | In buffer area only |
| Defence - NEWINGTON [10912] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10559] | NSW   | In buffer area only |
| Defence - NEWINGTON [10915] | NSW   | In buffer area only |
| Defence - NEWINGTON [10916] | NSW   | In buffer area only |
| Defence - NEWINGTON [10377] | NSW   | In buffer area only |
| Defence - NEWINGTON [10960] | NSW   | In buffer area only |
| Defence - NEWINGTON [10376] | NSW   | In buffer area only |
| Defence - NEWINGTON [10694] | NSW   | In buffer area only |
| Defence - NEWINGTON [10375] | NSW   | In buffer area only |
| Defence - NEWINGTON [10695] | NSW   | In buffer area only |
| Defence - NEWINGTON [10374] | NSW   | In buffer area only |
| Defence - NEWINGTON [10696] | NSW   | In buffer area only |
| Defence - NEWINGTON [10319] | NSW   | In buffer area only |
| Defence - NEWINGTON [10697] | NSW   | In buffer area only |
| Defence - NEWINGTON [10379] | NSW   | In buffer area only |
| Defence - NEWINGTON [10690] | NSW   | In buffer area only |
| Defence - NEWINGTON [10378] | NSW   | In buffer area only |
| Defence - NEWINGTON [10691] | NSW   | In buffer area only |
| Defence - NEWINGTON [10948] | NSW   | In buffer area only |
| Defence - NEWINGTON [10692] | NSW   | In buffer area only |
| Defence - NEWINGTON [10693] | NSW   | In buffer area only |
| Defence - NEWINGTON [10399] | NSW   | In buffer area only |
| Defence - NEWINGTON [10698] | NSW   | In buffer area only |
| Defence - NEWINGTON [10398] | NSW   | In buffer area only |
| Defence - NEWINGTON [10370] | NSW   | In buffer area only |
| Defence - NEWINGTON [10408] | NSW   | In buffer area only |
| Defence - NEWINGTON [10749] | NSW   | In buffer area only |
| Defence - NEWINGTON [10409] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10665] | NSW   | In buffer area only |
| Defence - NEWINGTON [10404] | NSW   | In buffer area only |
| Defence - NEWINGTON [10664] | NSW   | In buffer area only |
| Defence - NEWINGTON [10405] | NSW   | In buffer area only |
| Defence - NEWINGTON [10667] | NSW   | In buffer area only |
| Defence - NEWINGTON [10437] | NSW   | In buffer area only |
| Defence - NEWINGTON [10666] | NSW   | In buffer area only |
| Defence - NEWINGTON [10659] | NSW   | In buffer area only |
| Defence - NEWINGTON [10431] | NSW   | In buffer area only |
| Defence - NEWINGTON [10430] | NSW   | In buffer area only |
| Defence - NEWINGTON [10371] | NSW   | In buffer area only |
| Defence - NEWINGTON [10433] | NSW   | In buffer area only |
| Defence - NEWINGTON [10372] | NSW   | In buffer area only |
| Defence - NEWINGTON [10432] | NSW   | In buffer area only |
| Defence - NEWINGTON [10439] | NSW   | In buffer area only |
| Defence - NEWINGTON [10438] | NSW   | In buffer area only |
| Defence - NEWINGTON [10558] | NSW   | In buffer area only |
| Defence - NEWINGTON [10554] | NSW   | In buffer area only |
| Defence - NEWINGTON [10930] | NSW   | In buffer area only |
| Defence - NEWINGTON [10480] | NSW   | In buffer area only |
| Defence - NEWINGTON [10481] | NSW   | In buffer area only |
| Defence - NEWINGTON [10858] | NSW   | In buffer area only |
| Defence - NEWINGTON [10402] | NSW   | In buffer area only |
| Defence - NEWINGTON [10400] | NSW   | In buffer area only |
| Defence - NEWINGTON [10403] | NSW   | In buffer area only |
| Defence - NEWINGTON [10406] | NSW   | In buffer area only |
| Defence - NEWINGTON [10401] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10407] | NSW   | In buffer area only |
| Defence - NEWINGTON [10543] | NSW   | In buffer area only |
| Defence - NEWINGTON [10469] | NSW   | In buffer area only |
| Defence - NEWINGTON [10668] | NSW   | In buffer area only |
| Defence - NEWINGTON [10931] | NSW   | In buffer area only |
| Defence - NEWINGTON [10829] | NSW   | In buffer area only |
| Defence - NEWINGTON [10828] | NSW   | In buffer area only |
| Defence - NEWINGTON [10940] | NSW   | In buffer area only |
| Defence - NEWINGTON [10941] | NSW   | In buffer area only |
| Defence - NEWINGTON [10950] | NSW   | In buffer area only |
| Defence - NEWINGTON [10944] | NSW   | In buffer area only |
| Defence - NEWINGTON [10945] | NSW   | In buffer area only |
| Defence - NEWINGTON [10942] | NSW   | In buffer area only |
| Defence - NEWINGTON [10943] | NSW   | In buffer area only |
| Defence - NEWINGTON [10785] | NSW   | In buffer area only |
| Defence - NEWINGTON [10784] | NSW   | In buffer area only |
| Defence - NEWINGTON [10781] | NSW   | In buffer area only |
| Defence - NEWINGTON [10780] | NSW   | In buffer area only |
| Defence - NEWINGTON [10783] | NSW   | In buffer area only |
| Defence - NEWINGTON [10782] | NSW   | In buffer area only |
| Defence - NEWINGTON [10938] | NSW   | In buffer area only |
| Defence - NEWINGTON [10939] | NSW   | In buffer area only |
| Defence - NEWINGTON [10823] | NSW   | In buffer area only |
| Defence - NEWINGTON [10820] | NSW   | In buffer area only |
| Defence - NEWINGTON [10827] | NSW   | In buffer area only |
| Defence - NEWINGTON [10822] | NSW   | In buffer area only |
| Defence - NEWINGTON [10821] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10824] | NSW   | In buffer area only |
| Defence - NEWINGTON [10826] | NSW   | In buffer area only |
| Defence - NEWINGTON [10825] | NSW   | In buffer area only |
| Defence - NEWINGTON [10278] | NSW   | In buffer area only |
| Defence - NEWINGTON [10427] | NSW   | In buffer area only |
| Defence - NEWINGTON [10425] | NSW   | In buffer area only |
| Defence - NEWINGTON [10426] | NSW   | In buffer area only |
| Defence - NEWINGTON [10423] | NSW   | In buffer area only |
| Defence - NEWINGTON [10424] | NSW   | In buffer area only |
| Defence - NEWINGTON [10788] | NSW   | In buffer area only |
| Defence - NEWINGTON [10422] | NSW   | In buffer area only |
| Defence - NEWINGTON [10786] | NSW   | In buffer area only |
| Defence - NEWINGTON [10789] | NSW   | In buffer area only |
| Defence - NEWINGTON [10787] | NSW   | In buffer area only |
| Defence - NEWINGTON [10272] | NSW   | In buffer area only |
| Defence - NEWINGTON [10279] | NSW   | In buffer area only |
| Defence - NEWINGTON [10273] | NSW   | In buffer area only |
| Defence - NEWINGTON [10270] | NSW   | In buffer area only |
| Defence - NEWINGTON [10271] | NSW   | In buffer area only |
| Defence - NEWINGTON [10276] | NSW   | In buffer area only |
| Defence - NEWINGTON [10277] | NSW   | In buffer area only |
| Defence - NEWINGTON [10274] | NSW   | In buffer area only |
| Defence - NEWINGTON [10275] | NSW   | In buffer area only |
| Defence - NEWINGTON [10571] | NSW   | In buffer area only |
| Defence - NEWINGTON [10485] | NSW   | In buffer area only |
| Defence - NEWINGTON [11034] | NSW   | In buffer area only |
| Defence - NEWINGTON [10487] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10484] | NSW   | In buffer area only |
| Defence - NEWINGTON [11037] | NSW   | In buffer area only |
| Defence - NEWINGTON [11030] | NSW   | In buffer area only |
| Defence - NEWINGTON [11035] | NSW   | In buffer area only |
| Defence - NEWINGTON [11036] | NSW   | In buffer area only |
| Defence - NEWINGTON [10254] | NSW   | In buffer area only |
| Defence - NEWINGTON [11033] | NSW   | In buffer area only |
| Defence - NEWINGTON [11032] | NSW   | In buffer area only |
| Defence - NEWINGTON [10961] | NSW   | In buffer area only |
| Defence - NEWINGTON [11038] | NSW   | In buffer area only |
| Defence - NEWINGTON [11039] | NSW   | In buffer area only |
| Defence - NEWINGTON [10470] | NSW   | In buffer area only |
| Defence - NEWINGTON [10281] | NSW   | In buffer area only |
| Defence - NEWINGTON [10471] | NSW   | In buffer area only |
| Defence - NEWINGTON [10488] | NSW   | In buffer area only |
| Defence - NEWINGTON [10923] | NSW   | In buffer area only |
| Defence - NEWINGTON [10920] | NSW   | In buffer area only |
| Defence - NEWINGTON [10925] | NSW   | In buffer area only |
| Defence - NEWINGTON [10922] | NSW   | In buffer area only |
| Defence - NEWINGTON [10489] | NSW   | In buffer area only |
| Defence - NEWINGTON [10924] | NSW   | In buffer area only |
| Defence - NEWINGTON [10929] | NSW   | In buffer area only |
| Defence - NEWINGTON [10926] | NSW   | In buffer area only |
| Defence - NEWINGTON [10928] | NSW   | In buffer area only |
| Defence - NEWINGTON [10765] | NSW   | In buffer area only |
| Defence - NEWINGTON [10764] | NSW   | In buffer area only |
| Defence - NEWINGTON [10482] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10483] | NSW   | In buffer area only |
| Defence - NEWINGTON [10255] | NSW   | In buffer area only |
| Defence - NEWINGTON [10760] | NSW   | In buffer area only |
| Defence - NEWINGTON [10767] | NSW   | In buffer area only |
| Defence - NEWINGTON [10766] | NSW   | In buffer area only |
| Defence - NEWINGTON [10551] | NSW   | In buffer area only |
| Defence - NEWINGTON [10250] | NSW   | In buffer area only |
| Defence - NEWINGTON [10251] | NSW   | In buffer area only |
| Defence - NEWINGTON [10553] | NSW   | In buffer area only |
| Defence - NEWINGTON [10768] | NSW   | In buffer area only |
| Defence - NEWINGTON [10769] | NSW   | In buffer area only |
| Defence - NEWINGTON [10252] | NSW   | In buffer area only |
| Defence - NEWINGTON [10253] | NSW   | In buffer area only |
| Defence - NEWINGTON [10486] | NSW   | In buffer area only |
| Defence - NEWINGTON [10982] | NSW   | In buffer area only |
| Defence - NEWINGTON [10983] | NSW   | In buffer area only |
| Defence - NEWINGTON [10984] | NSW   | In buffer area only |
| Defence - NEWINGTON [10985] | NSW   | In buffer area only |
| Defence - NEWINGTON [10390] | NSW   | In buffer area only |
| Defence - NEWINGTON [10546] | NSW   | In buffer area only |
| Defence - NEWINGTON [10391] | NSW   | In buffer area only |
| Defence - NEWINGTON [10547] | NSW   | In buffer area only |
| Defence - NEWINGTON [10392] | NSW   | In buffer area only |
| Defence - NEWINGTON [10980] | NSW   | In buffer area only |
| Defence - NEWINGTON [10393] | NSW   | In buffer area only |
| Defence - NEWINGTON [10981] | NSW   | In buffer area only |
| Defence - NEWINGTON [10394] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10395] | NSW   | In buffer area only |
| Defence - NEWINGTON [10396] | NSW   | In buffer area only |
| Defence - NEWINGTON [10544] | NSW   | In buffer area only |
| Defence - NEWINGTON [10397] | NSW   | In buffer area only |
| Defence - NEWINGTON [10545] | NSW   | In buffer area only |
| Defence - NEWINGTON [10816] | NSW   | In buffer area only |
| Defence - NEWINGTON [10969] | NSW   | In buffer area only |
| Defence - NEWINGTON [10541] | NSW   | In buffer area only |
| Defence - NEWINGTON [10542] | NSW   | In buffer area only |
| Defence - NEWINGTON [10540] | NSW   | In buffer area only |
| Defence - NEWINGTON [10548] | NSW   | In buffer area only |
| Defence - NEWINGTON [10549] | NSW   | In buffer area only |
| Defence - NEWINGTON [10914] | NSW   | In buffer area only |
| Defence - NEWINGTON [10323] | NSW   | In buffer area only |
| Defence - NEWINGTON [10329] | NSW   | In buffer area only |
| Defence - NEWINGTON [10324] | NSW   | In buffer area only |
| Defence - NEWINGTON [10325] | NSW   | In buffer area only |
| Defence - NEWINGTON [10326] | NSW   | In buffer area only |
| Defence - NEWINGTON [10327] | NSW   | In buffer area only |
| Defence - NEWINGTON [10320] | NSW   | In buffer area only |
| Defence - NEWINGTON [10321] | NSW   | In buffer area only |
| Defence - NEWINGTON [10322] | NSW   | In buffer area only |
| Defence - NEWINGTON [10328] | NSW   | In buffer area only |
| Defence - NEWINGTON [10987] | NSW   | In buffer area only |
| Defence - NEWINGTON [10988] | NSW   | In buffer area only |
| Defence - NEWINGTON [10986] | NSW   | In buffer area only |
| Defence - NEWINGTON [10478] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10479] | NSW   | In buffer area only |
| Defence - NEWINGTON [10989] | NSW   | In buffer area only |
| Defence - NEWINGTON [10387] | NSW   | In buffer area only |
| Defence - NEWINGTON [10642] | NSW   | In buffer area only |
| Defence - NEWINGTON [10967] | NSW   | In buffer area only |
| Defence - NEWINGTON [10966] | NSW   | In buffer area only |
| Defence - NEWINGTON [10893] | NSW   | In buffer area only |
| Defence - NEWINGTON [10964] | NSW   | In buffer area only |
| Defence - NEWINGTON [10633] | NSW   | In buffer area only |
| Defence - NEWINGTON [10632] | NSW   | In buffer area only |
| Defence - NEWINGTON [10631] | NSW   | In buffer area only |
| Defence - NEWINGTON [10630] | NSW   | In buffer area only |
| Defence - NEWINGTON [11047] | NSW   | In buffer area only |
| Defence - NEWINGTON [10968] | NSW   | In buffer area only |
| Defence - NEWINGTON [11045] | NSW   | In buffer area only |
| Defence - NEWINGTON [11044] | NSW   | In buffer area only |
| Defence - NEWINGTON [10895] | NSW   | In buffer area only |
| Defence - NEWINGTON [11041] | NSW   | In buffer area only |
| Defence - NEWINGTON [11046] | NSW   | In buffer area only |
| Defence - NEWINGTON [11042] | NSW   | In buffer area only |
| Defence - NEWINGTON [10897] | NSW   | In buffer area only |
| Defence - NEWINGTON [11040] | NSW   | In buffer area only |
| Defence - NEWINGTON [11043] | NSW   | In buffer area only |
| Defence - NEWINGTON [10896] | NSW   | In buffer area only |
| Defence - NEWINGTON [10386] | NSW   | In buffer area only |
| Defence - NEWINGTON [11049] | NSW   | In buffer area only |
| Defence - NEWINGTON [11048] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10451] | NSW   | In buffer area only |
| Defence - NEWINGTON [10450] | NSW   | In buffer area only |
| Defence - NEWINGTON [10936] | NSW   | In buffer area only |
| Defence - NEWINGTON [10455] | NSW   | In buffer area only |
| Defence - NEWINGTON [10898] | NSW   | In buffer area only |
| Defence - NEWINGTON [10899] | NSW   | In buffer area only |
| Defence - NEWINGTON [10619] | NSW   | In buffer area only |
| Defence - NEWINGTON [10561] | NSW   | In buffer area only |
| Defence - NEWINGTON [10803] | NSW   | In buffer area only |
| Defence - NEWINGTON [10802] | NSW   | In buffer area only |
| Defence - NEWINGTON [10801] | NSW   | In buffer area only |
| Defence - NEWINGTON [10800] | NSW   | In buffer area only |
| Defence - NEWINGTON [10884] | NSW   | In buffer area only |
| Defence - NEWINGTON [10885] | NSW   | In buffer area only |
| Defence - NEWINGTON [10805] | NSW   | In buffer area only |
| Defence - NEWINGTON [10477] | NSW   | In buffer area only |
| Defence - NEWINGTON [10886] | NSW   | In buffer area only |
| Defence - NEWINGTON [10887] | NSW   | In buffer area only |
| Defence - NEWINGTON [10475] | NSW   | In buffer area only |
| Defence - NEWINGTON [10476] | NSW   | In buffer area only |
| Defence - NEWINGTON [10473] | NSW   | In buffer area only |
| Defence - NEWINGTON [10474] | NSW   | In buffer area only |
| Defence - NEWINGTON [10807] | NSW   | In buffer area only |
| Defence - NEWINGTON [10804] | NSW   | In buffer area only |
| Defence - NEWINGTON [10574] | NSW   | In buffer area only |
| Defence - NEWINGTON [10575] | NSW   | In buffer area only |
| Defence - NEWINGTON [10443] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10576] | NSW   | In buffer area only |
| Defence - NEWINGTON [10577] | NSW   | In buffer area only |
| Defence - NEWINGTON [10445] | NSW   | In buffer area only |
| Defence - NEWINGTON [10578] | NSW   | In buffer area only |
| Defence - NEWINGTON [10442] | NSW   | In buffer area only |
| Defence - NEWINGTON [10579] | NSW   | In buffer area only |
| Defence - NEWINGTON [10447] | NSW   | In buffer area only |
| Defence - NEWINGTON [10472] | NSW   | In buffer area only |
| Defence - NEWINGTON [10446] | NSW   | In buffer area only |
| Defence - NEWINGTON [10881] | NSW   | In buffer area only |
| Defence - NEWINGTON [10880] | NSW   | In buffer area only |
| Defence - NEWINGTON [10883] | NSW   | In buffer area only |
| Defence - NEWINGTON [10882] | NSW   | In buffer area only |
| Defence - NEWINGTON [10570] | NSW   | In buffer area only |
| Defence - NEWINGTON [10573] | NSW   | In buffer area only |
| Defence - NEWINGTON [10572] | NSW   | In buffer area only |
| Defence - NEWINGTON [10908] | NSW   | In buffer area only |
| Defence - NEWINGTON [10311] | NSW   | In buffer area only |
| Defence - NEWINGTON [10639] | NSW   | In buffer area only |
| Defence - NEWINGTON [10909] | NSW   | In buffer area only |
| Defence - NEWINGTON [10314] | NSW   | In buffer area only |
| Defence - NEWINGTON [10315] | NSW   | In buffer area only |
| Defence - NEWINGTON [10316] | NSW   | In buffer area only |
| Defence - NEWINGTON [10317] | NSW   | In buffer area only |
| Defence - NEWINGTON [10669] | NSW   | In buffer area only |
| Defence - NEWINGTON [10900] | NSW   | In buffer area only |
| Defence - NEWINGTON [10901] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10870] | NSW   | In buffer area only |
| Defence - NEWINGTON [10871] | NSW   | In buffer area only |
| Defence - NEWINGTON [10518] | NSW   | In buffer area only |
| Defence - NEWINGTON [11014] | NSW   | In buffer area only |
| Defence - NEWINGTON [11017] | NSW   | In buffer area only |
| Defence - NEWINGTON [11012] | NSW   | In buffer area only |
| Defence - NEWINGTON [11015] | NSW   | In buffer area only |
| Defence - NEWINGTON [11018] | NSW   | In buffer area only |
| Defence - NEWINGTON [11016] | NSW   | In buffer area only |
| Defence - NEWINGTON [11019] | NSW   | In buffer area only |
| Defence - NEWINGTON [10873] | NSW   | In buffer area only |
| Defence - NEWINGTON [10872] | NSW   | In buffer area only |
| Defence - NEWINGTON [10879] | NSW   | In buffer area only |
| Defence - NEWINGTON [10878] | NSW   | In buffer area only |
| Defence - NEWINGTON [10699] | NSW   | In buffer area only |
| Defence - NEWINGTON [10512] | NSW   | In buffer area only |
| Defence - NEWINGTON [10513] | NSW   | In buffer area only |
| Defence - NEWINGTON [10510] | NSW   | In buffer area only |
| Defence - NEWINGTON [10511] | NSW   | In buffer area only |
| Defence - NEWINGTON [11011] | NSW   | In buffer area only |
| Defence - NEWINGTON [10457] | NSW   | In buffer area only |
| Defence - NEWINGTON [10456] | NSW   | In buffer area only |
| Defence - NEWINGTON [11013] | NSW   | In buffer area only |
| Defence - NEWINGTON [11010] | NSW   | In buffer area only |
| Defence - NEWINGTON [10306] | NSW   | In buffer area only |
| Defence - NEWINGTON [10307] | NSW   | In buffer area only |
| Defence - NEWINGTON [10877] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10304] | NSW   | In buffer area only |
| Defence - NEWINGTON [10305] | NSW   | In buffer area only |
| Defence - NEWINGTON [10454] | NSW   | In buffer area only |
| Defence - NEWINGTON [10308] | NSW   | In buffer area only |
| Defence - NEWINGTON [10459] | NSW   | In buffer area only |
| Defence - NEWINGTON [10309] | NSW   | In buffer area only |
| Defence - NEWINGTON [10452] | NSW   | In buffer area only |
| Defence - NEWINGTON [10611] | NSW   | In buffer area only |
| Defence - NEWINGTON [10453] | NSW   | In buffer area only |
| Defence - NEWINGTON [10951] | NSW   | In buffer area only |
| Defence - NEWINGTON [10519] | NSW   | In buffer area only |
| Defence - NEWINGTON [10552] | NSW   | In buffer area only |
| Defence - NEWINGTON [10965] | NSW   | In buffer area only |
| Defence - NEWINGTON [10949] | NSW   | In buffer area only |
| Defence - NEWINGTON [10874] | NSW   | In buffer area only |
| Defence - NEWINGTON [10557] | NSW   | In buffer area only |
| Defence - NEWINGTON [10876] | NSW   | In buffer area only |
| Defence - NEWINGTON [10875] | NSW   | In buffer area only |
| Defence - NEWINGTON [10520] | NSW   | In buffer area only |
| Defence - NEWINGTON [10523] | NSW   | In buffer area only |
| Defence - NEWINGTON [10301] | NSW   | In buffer area only |
| Defence - NEWINGTON [10300] | NSW   | In buffer area only |
| Defence - NEWINGTON [10299] | NSW   | In buffer area only |
| Defence - NEWINGTON [10298] | NSW   | In buffer area only |
| Defence - NEWINGTON [10297] | NSW   | In buffer area only |
| Defence - NEWINGTON [10296] | NSW   | In buffer area only |
| Defence - NEWINGTON [10295] | NSW   | In buffer area only |

| Commonwealth Land Name      | State | Buffer Status       |
|-----------------------------|-------|---------------------|
| Defence - NEWINGTON [10294] | NSW   | In buffer area only |
| Defence - NEWINGTON [10515] | NSW   | In buffer area only |
| Defence - NEWINGTON [10302] | NSW   | In buffer area only |
| Defence - NEWINGTON [10514] | NSW   | In buffer area only |
| Defence - NEWINGTON [10842] | NSW   | In buffer area only |
| Defence - NEWINGTON [10517] | NSW   | In buffer area only |
| Defence - NEWINGTON [10499] | NSW   | In buffer area only |
| Defence - NEWINGTON [10516] | NSW   | In buffer area only |
| Defence - NEWINGTON [10846] | NSW   | In buffer area only |
| Defence - NEWINGTON [10841] | NSW   | In buffer area only |
| Defence - NEWINGTON [10888] | NSW   | In buffer area only |
| Defence - NEWINGTON [10889] | NSW   | In buffer area only |
| Defence - NEWINGTON [10525] | NSW   | In buffer area only |
| Defence - NEWINGTON [10524] | NSW   | In buffer area only |
| Defence - NEWINGTON [10303] | NSW   | In buffer area only |
| Defence - NEWINGTON [10526] | NSW   | In buffer area only |
| Defence - NEWINGTON [10283] | NSW   | In buffer area only |
| Defence - NEWINGTON [10847] | NSW   | In buffer area only |
| Defence - NEWINGTON [10290] | NSW   | In buffer area only |
| Defence - NEWINGTON [10809] | NSW   | In buffer area only |
| Defence - NEWINGTON [10806] | NSW   | In buffer area only |
| Defence - NEWINGTON [10808] | NSW   | In buffer area only |
| Defence - NEWINGTON [10248] | NSW   | In buffer area only |
| Defence - NEWINGTON [10849] | NSW   | In buffer area only |
| Defence - NEWINGTON [10291] | NSW   | In buffer area only |
| Defence - NEWINGTON [10848] | NSW   | In buffer area only |
| Defence - NEWINGTON [10292] | NSW   | In buffer area only |

| Commonwealth Land Name                        | State | Buffer Status       |
|-----------------------------------------------|-------|---------------------|
| Defence - NEWINGTON [10927]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10293]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10495]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10562]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10563]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10285]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10555]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10286]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10992]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10993]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10284]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10845]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10550]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10528]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10844]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10282]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10259]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10287]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10258]                   | NSW   | In buffer area only |
| Defence - NEWINGTON [10529]                   | NSW   | In buffer area only |
| Defence - NORTH SYDNEY - HYDRO OFFICE [11161] | NSW   | In buffer area only |
| Defence - PYMBLE MULTI-USER DEPOT [11123]     | NSW   | In buffer area only |
| Defence - SPECTACLE ISLAND [10036]            | NSW   | In buffer area only |
| Defence - SPECTACLE ISLAND [10035]            | NSW   | In buffer area only |
| Defence - SPECTACLE ISLAND [10038]            | NSW   | In buffer area only |
| Defence - SPECTACLE ISLAND [10037]            | NSW   | In buffer area only |
| Defence - TIMOR BARRACKS - DUNDAS [11097]     | NSW   | In buffer area only |

| Commonwealth Land Name                                | State | Buffer Status       |
|-------------------------------------------------------|-------|---------------------|
| Defence - TIMOR BARRACKS - DUNDAS [11096]             | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11140]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11141]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11142]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11143]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11145]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11144]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11151]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11149]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11159]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11150]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11158]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11148]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11138]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11139]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11147]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11157]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11156]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11155]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11154]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11153]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11152]                  | NSW   | In buffer area only |
| Defence - WILLOUGHBY TRG DEP [11146]                  | NSW   | In buffer area only |
| Defence - Defence Housing Authority                   |       |                     |
| Commonwealth Land - Defence Housing Authority [13008] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13009] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15974] | NSW   | In buffer area only |

| Commonwealth Land Name                                | State | Buffer Status       |
|-------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Defence Housing Authority [15975] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15976] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15977] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15972] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15973] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13932] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13050] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15683] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13045] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16356] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16357] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13049] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13957] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13956] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15711] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13046] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13012] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15590] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13964] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13051] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13940] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13941] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13038] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13035] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13920] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13939] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13938] | NSW   | In buffer area only |

| Commonwealth Land Name                                | State | Buffer Status       |
|-------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Defence Housing Authority [13133] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13052] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13053] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13931] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13927] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13928] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13929] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15743] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15602] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13036] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13006] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13935] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13933] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16163] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13105] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13936] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15739] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13937] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15417] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13901] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16029] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13124] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13902] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13907] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13905] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13904] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13044] | NSW   | In buffer area only |

| Commonwealth Land Name                                | State | Buffer Status       |
|-------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Defence Housing Authority [13026] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13007] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15892] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16134] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15895] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15896] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15893] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16133] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16132] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16135] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13919] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13918] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13029] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13028] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13963] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13916] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13023] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13032] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13942] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13943] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13944] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13945] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13030] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13037] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13096] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13084] | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13089] | NSW   | In buffer area only |

| Commonwealth Land Name                                    | State | Buffer Status       |
|-----------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Defence Housing Authority [13027]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [16061]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13025]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13024]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15672]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15671]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [15964]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13930]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13903]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13020]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13021]     | NSW   | In buffer area only |
| Commonwealth Land - Defence Housing Authority [13011]     | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13058] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13059] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13077] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13076] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13071] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13073] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13072] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13074] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13079] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13075] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13056] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13048] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13917] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13062] | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13060] | NSW   | In buffer area only |

| Commonwealth Land Name                                                                 | State | Buffer Status       |
|----------------------------------------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Director of War Service Homes [13063]                              | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13090]                              | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13061]                              | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13082]                              | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13081]                              | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13080]                              | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13083]                              | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13085]                              | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13088]                              | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13086]                              | NSW   | In buffer area only |
| Commonwealth Land - Director of War Service Homes [13087]                              | NSW   | In buffer area only |
| Commonwealth Land - War Service Homes Commissioner [13015]                             | NSW   | In buffer area only |
| Education, Science and Training - CSIRO                                                |       |                     |
| Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [15954] | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [13070] | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16154] | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16152] | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16155] | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16535] | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [13069] | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16153] | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16536] | NSW   | In buffer area only |
| Commonwealth Land - Commonwealth Scientific & Industrial Research Organisation [16156] | NSW   | In buffer area only |
| Transport and Regional Services - Airservices Australia                                |       |                     |

| Commonwealth Land Name                                | State | Buffer Status       |
|-------------------------------------------------------|-------|---------------------|
| Commonwealth Land - Airservices Australia [13098]     | NSW   | In buffer area only |
| Treasury - Reserve Bank of Australia                  |       |                     |
| Commonwealth Land - Reserve Bank of Australia [13138] | NSW   | In buffer area only |
| Unknown                                               |       |                     |
| Commonwealth Land - [13013]                           | NSW   | In buffer area only |
| Commonwealth Land - [16476]                           | NSW   | In buffer area only |
| Commonwealth Land - [15673]                           | NSW   | In buffer area only |
| Commonwealth Land - [16420]                           | NSW   | In buffer area only |
| Commonwealth Land - [13078]                           | NSW   | In buffer area only |
| Commonwealth Land - [13034]                           | NSW   | In buffer area only |
| Commonwealth Land - [13934]                           | NSW   | In buffer area only |
| Commonwealth Land - [13101]                           | NSW   | In buffer area only |
| Commonwealth Land - [13141]                           | NSW   | In buffer area only |
| Commonwealth Land - [13140]                           | NSW   | In buffer area only |
| Commonwealth Land - [13122]                           | NSW   | In buffer area only |
| Commonwealth Land - [13123]                           | NSW   | In buffer area only |
| Commonwealth Land - [13120]                           | NSW   | In buffer area only |
| Commonwealth Land - [13946]                           | NSW   | In buffer area only |
| Commonwealth Land - [13031]                           | NSW   | In buffer area only |
| Commonwealth Land - [15674]                           | NSW   | In buffer area only |

| Commonwealth Heritage Places                                 |       |              | [ Resource Information ] |
|--------------------------------------------------------------|-------|--------------|--------------------------|
| Name                                                         | State | Status       | Buffer Status            |
| Historic                                                     |       |              |                          |
| <a href="#">Barracks Block</a>                               | NSW   | Listed place | In buffer area only      |
| <a href="#">Biloela Group</a>                                | NSW   | Listed place | In buffer area only      |
| <a href="#">Cockatoo Island Industrial Conservation Area</a> | NSW   | Listed place | In buffer area only      |
| <a href="#">Fitzroy Dock</a>                                 | NSW   | Listed place | In buffer area only      |
| <a href="#">Mess Hall (former)</a>                           | NSW   | Listed place | In buffer area only      |
| <a href="#">Military Guard Room</a>                          | NSW   | Listed place | In buffer area only      |

| Name                                                | State | Status       | Buffer Status       |
|-----------------------------------------------------|-------|--------------|---------------------|
| <a href="#">North Sydney Post Office</a>            | NSW   | Listed place | In buffer area only |
| <a href="#">Power House / Pump House</a>            | NSW   | Listed place | In buffer area only |
| <a href="#">Prison Barracks Precinct</a>            | NSW   | Listed place | In buffer area only |
| <a href="#">Snapper Island</a>                      | NSW   | Listed place | In buffer area only |
| <a href="#">Spectacle Island Explosives Complex</a> | NSW   | Listed place | In buffer area only |
| <a href="#">Sutherland Dock</a>                     | NSW   | Listed place | In buffer area only |
| <a href="#">Underground Grain Silos</a>             | NSW   | Listed place | In buffer area only |
| <a href="#">Woolwich Dock</a>                       | NSW   | Listed place | In buffer area only |

| Listed Marine Species                                                          |                     | [ Resource Information ]                                                   |                     |
|--------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------|---------------------|
| Scientific Name                                                                | Threatened Category | Presence Text                                                              | Buffer Status       |
| Bird                                                                           |                     |                                                                            |                     |
| <a href="#">Actitis hypoleucos</a><br>Common Sandpiper [59309]                 |                     | Species or species habitat known to occur within area                      | In feature area     |
| <a href="#">Anous stolidus</a><br>Common Noddy [825]                           |                     | Species or species habitat likely to occur within area                     | In buffer area only |
| <a href="#">Apus pacificus</a><br>Fork-tailed Swift [678]                      |                     | Species or species habitat likely to occur within area overfly marine area | In feature area     |
| <a href="#">Ardenna grisea as Puffinus griseus</a><br>Sooty Shearwater [82651] | Vulnerable          | Species or species habitat likely to occur within area                     | In buffer area only |
| <a href="#">Arenaria interpres</a><br>Ruddy Turnstone [872]                    | Vulnerable          | Foraging, feeding or related behaviour known to occur within area          | In buffer area only |
| <a href="#">Bubulcus ibis as Ardea ibis</a><br>Cattle Egret [66521]            |                     | Species or species habitat may occur within area overfly marine area       | In feature area     |

| Scientific Name                                                       | Threatened Category   | Presence Text                                                                         | Buffer Status       |
|-----------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|---------------------|
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]    | Vulnerable            | Foraging, feeding or related behaviour known to occur within area                     | In feature area     |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]              | Vulnerable            | Species or species habitat known to occur within area overfly marine area             | In feature area     |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]         | Critically Endangered | Species or species habitat known to occur within area overfly marine area             | In feature area     |
| <a href="#">Calidris melanotos</a><br>Pectoral Sandpiper [858]        |                       | Species or species habitat known to occur within area overfly marine area             | In feature area     |
| <a href="#">Calidris pugnax as Philomachus pugnax</a><br>Ruff [91256] |                       | Foraging, feeding or related behaviour known to occur within area overfly marine area | In buffer area only |
| <a href="#">Calidris ruficollis</a><br>Red-necked Stint [860]         |                       | Foraging, feeding or related behaviour known to occur within area overfly marine area | In buffer area only |
| <a href="#">Calidris tenuirostris</a><br>Great Knot [862]             | Vulnerable            | Foraging, feeding or related behaviour known to occur within area overfly marine area | In buffer area only |
| <a href="#">Calonectris leucomelas</a><br>Streaked Shearwater [1077]  |                       | Species or species habitat known to occur within area                                 | In buffer area only |
| <a href="#">Charadrius bicinctus</a><br>Double-banded Plover [895]    |                       | Foraging, feeding or related behaviour known to occur within area overfly marine area | In buffer area only |

| Scientific Name                                                                                 | Threatened Category | Presence Text                                                                         | Buffer Status       |
|-------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|---------------------|
| <a href="#">Charadrius leschenaultii</a><br>Greater Sand Plover, Large Sand Plover [877]        | Vulnerable          | Species or species habitat likely to occur within area                                | In feature area     |
| <a href="#">Charadrius mongolus</a><br>Lesser Sand Plover, Mongolian Plover [879]               | Endangered          | Foraging, feeding or related behaviour known to occur within area                     | In buffer area only |
| <a href="#">Charadrius ruficapillus</a><br>Red-capped Plover [881]                              |                     | Foraging, feeding or related behaviour known to occur within area overfly marine area | In buffer area only |
| <a href="#">Diomedea antipodensis</a><br>Antipodean Albatross [64458]                           | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area                    | In buffer area only |
| <a href="#">Diomedea antipodensis gibsoni as Diomedea gibsoni</a><br>Gibson's Albatross [82270] | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area                    | In buffer area only |
| <a href="#">Diomedea epomophora</a><br>Southern Royal Albatross [89221]                         | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area                    | In buffer area only |
| <a href="#">Diomedea exulans</a><br>Wandering Albatross [89223]                                 | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area                    | In buffer area only |
| <a href="#">Diomedea sanfordi</a><br>Northern Royal Albatross [64456]                           | Endangered          | Species or species habitat may occur within area                                      | In buffer area only |
| <a href="#">Fregata ariel</a><br>Lesser Frigatebird, Least Frigatebird [1012]                   |                     | Species or species habitat likely to occur within area                                | In buffer area only |
| <a href="#">Fregata minor</a><br>Great Frigatebird, Greater Frigatebird [1013]                  |                     | Species or species habitat may occur within area                                      | In buffer area only |

| Scientific Name                                                               | Threatened Category   | Presence Text                                                                          | Buffer Status       |
|-------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------|---------------------|
| <a href="#">Gallinago hardwickii</a><br>Latham's Snipe, Japanese Snipe [863]  | Vulnerable            | Species or species habitat known to occur within area overfly marine area              | In feature area     |
| <a href="#">Gallinago megala</a><br>Swinhoe's Snipe [864]                     |                       | Foraging, feeding or related behaviour likely to occur within area overfly marine area | In buffer area only |
| <a href="#">Gallinago stenura</a><br>Pin-tailed Snipe [841]                   |                       | Foraging, feeding or related behaviour likely to occur within area overfly marine area | In buffer area only |
| <a href="#">Haliaeetus leucogaster</a><br>White-bellied Sea-Eagle [943]       |                       | Breeding known to occur within area                                                    | In feature area     |
| <a href="#">Himantopus himantopus</a><br>Pied Stilt, Black-winged Stilt [870] |                       | Foraging, feeding or related behaviour known to occur within area overfly marine area  | In buffer area only |
| <a href="#">Hirundapus caudacutus</a><br>White-throated Needletail [682]      | Vulnerable            | Species or species habitat known to occur within area overfly marine area              | In feature area     |
| <a href="#">Lathamus discolor</a><br>Swift Parrot [744]                       | Critically Endangered | Species or species habitat known to occur within area overfly marine area              | In feature area     |
| <a href="#">Limosa lapponica</a><br>Bar-tailed Godwit [844]                   |                       | Species or species habitat known to occur within area                                  | In buffer area only |
| <a href="#">Limosa limosa</a><br>Black-tailed Godwit [845]                    | Endangered            | Foraging, feeding or related behaviour known to occur within area overfly marine area  | In buffer area only |

| Scientific Name                                                                              | Threatened Category   | Presence Text                                                                          | Buffer Status       |
|----------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------|---------------------|
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060] | Endangered            | Species or species habitat may occur within area                                       | In buffer area only |
| <a href="#">Macronectes halli</a><br>Northern Giant Petrel [1061]                            | Vulnerable            | Foraging, feeding or related behaviour likely to occur within area                     | In buffer area only |
| <a href="#">Merops ornatus</a><br>Rainbow Bee-eater [670]                                    |                       | Species or species habitat may occur within area overfly marine area                   | In feature area     |
| <a href="#">Monarcha melanopsis</a><br>Black-faced Monarch [609]                             |                       | Species or species habitat known to occur within area overfly marine area              | In feature area     |
| <a href="#">Motacilla flava</a><br>Yellow Wagtail [644]                                      |                       | Species or species habitat likely to occur within area overfly marine area             | In feature area     |
| <a href="#">Myiagra cyanoleuca</a><br>Satin Flycatcher [612]                                 |                       | Species or species habitat known to occur within area overfly marine area              | In feature area     |
| <a href="#">Neophema chrysostoma</a><br>Blue-winged Parrot [726]                             | Vulnerable            | Species or species habitat likely to occur within area overfly marine area             | In feature area     |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]        | Critically Endangered | Species or species habitat known to occur within area                                  | In feature area     |
| <a href="#">Numenius minutus</a><br>Little Curlew, Little Whimbrel [848]                     |                       | Foraging, feeding or related behaviour likely to occur within area overfly marine area | In buffer area only |

| Scientific Name                                                                                                  | Threatened Category | Presence Text                                                                         | Buffer Status       |
|------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|---------------------|
| <a href="#">Numenius phaeopus</a><br>Whimbrel [849]                                                              |                     | Foraging, feeding or related behaviour known to occur within area                     | In buffer area only |
| <a href="#">Pachyptila turtur</a><br>Fairy Prion [1066]                                                          |                     | Species or species habitat known to occur within area                                 | In buffer area only |
| <a href="#">Pandion haliaetus</a><br>Osprey [952]                                                                |                     | Species or species habitat known to occur within area                                 | In buffer area only |
| <a href="#">Phaethon lepturus</a><br>White-tailed Tropicbird [1014]                                              |                     | Species or species habitat may occur within area                                      | In buffer area only |
| <a href="#">Pluvialis fulva</a><br>Pacific Golden Plover [25545]                                                 |                     | Foraging, feeding or related behaviour known to occur within area                     | In buffer area only |
| <a href="#">Pterodroma cervicalis</a><br>White-necked Petrel [59642]                                             |                     | Species or species habitat may occur within area                                      | In feature area     |
| <a href="#">Recurvirostra novaehollandiae</a><br>Red-necked Avocet [871]                                         |                     | Foraging, feeding or related behaviour known to occur within area overfly marine area | In buffer area only |
| <a href="#">Rhipidura rufifrons</a><br>Rufous Fantail [592]                                                      |                     | Species or species habitat known to occur within area overfly marine area             | In feature area     |
| <a href="#">Rostratula australis as Rostratula benghalensis (sensu lato)</a><br>Australian Painted Snipe [77037] | Endangered          | Species or species habitat known to occur within area overfly marine area             | In feature area     |
| <a href="#">Sterna striata</a><br>White-fronted Tern [799]                                                       |                     | Migration route may occur within area                                                 | In feature area     |

| Scientific Name                                                                                                                | Threatened Category | Presence Text                                                             | Buffer Status       |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------|---------------------|
| <a href="#">Symposiachrus trivirgatus as Monarcha trivirgatus</a><br>Spectacled Monarch [83946]                                |                     | Species or species habitat known to occur within area overfly marine area | In feature area     |
| <a href="#">Thalassarche bulleri</a><br>Buller's Albatross, Pacific Albatross [64460]                                          | Vulnerable          | Species or species habitat may occur within area                          | In buffer area only |
| <a href="#">Thalassarche bulleri platei as Thalassarche sp. nov.</a><br>Northern Buller's Albatross, Pacific Albatross [82273] | Vulnerable          | Species or species habitat may occur within area                          | In buffer area only |
| <a href="#">Thalassarche cauta</a><br>Shy Albatross [89224]                                                                    | Endangered          | Foraging, feeding or related behaviour likely to occur within area        | In buffer area only |
| <a href="#">Thalassarche eremita</a><br>Chatham Albatross [64457]                                                              | Endangered          | Foraging, feeding or related behaviour may occur within area              | In buffer area only |
| <a href="#">Thalassarche impavida</a><br>Campbell Albatross, Campbell Black-browed Albatross [64459]                           | Vulnerable          | Species or species habitat may occur within area                          | In buffer area only |
| <a href="#">Thalassarche melanophris</a><br>Black-browed Albatross [66472]                                                     | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area        | In buffer area only |
| <a href="#">Thalassarche salvini</a><br>Salvin's Albatross [64463]                                                             | Vulnerable          | Foraging, feeding or related behaviour likely to occur within area        | In buffer area only |
| <a href="#">Thalassarche steadi</a><br>White-capped Albatross [64462]                                                          | Vulnerable          | Foraging, feeding or related behaviour known to occur within area         | In buffer area only |
| <a href="#">Tringa brevipes as Heteroscelus brevipes</a><br>Grey-tailed Tattler [851]                                          |                     | Foraging, feeding or related behaviour known to occur within area         | In buffer area only |

| Scientific Name                                                                | Threatened Category | Presence Text                                                                         | Buffer Status       |
|--------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|---------------------|
| <a href="#">Tringa nebularia</a><br>Common Greenshank, Greenshank [832]        | Endangered          | Species or species habitat known to occur within area overfly marine area             | In feature area     |
| <a href="#">Tringa stagnatilis</a><br>Marsh Sandpiper, Little Greenshank [833] |                     | Foraging, feeding or related behaviour known to occur within area overfly marine area | In buffer area only |

| Reptile                                                                                  |            |                                                       |                     |
|------------------------------------------------------------------------------------------|------------|-------------------------------------------------------|---------------------|
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]                              | Endangered | Species or species habitat known to occur within area | In buffer area only |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]                                    | Vulnerable | Species or species habitat known to occur within area | In buffer area only |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768] | Endangered | Species or species habitat known to occur within area | In buffer area only |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]                        | Vulnerable | Species or species habitat known to occur within area | In buffer area only |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                             | Vulnerable | Species or species habitat known to occur within area | In buffer area only |

| Whales and Other Cetaceans [ Resource Information ]         |        |                                                              |                     |
|-------------------------------------------------------------|--------|--------------------------------------------------------------|---------------------|
| Current Scientific Name                                     | Status | Type of Presence                                             | Buffer Status       |
| Mammal                                                      |        |                                                              |                     |
| <a href="#">Balaenoptera edeni</a><br>Bryde's Whale [35]    |        | Species or species habitat may occur within area             | In buffer area only |
| <a href="#">Caperea marginata</a><br>Pygmy Right Whale [39] |        | Foraging, feeding or related behaviour may occur within area | In buffer area only |

| Current Scientific Name                 | Status | Type of Presence                                 | Buffer Status       |
|-----------------------------------------|--------|--------------------------------------------------|---------------------|
| <a href="#">Lagenorhynchus obscurus</a> |        |                                                  |                     |
| Dusky Dolphin [43]                      |        | 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            |
| Berowra Valley               | National Park  | NSW   | In buffer area only      |
| Berowra Valley               | Regional Park  | NSW   | In buffer area only      |
| Dalrymple-Hay                | Nature Reserve | NSW   | In buffer area only      |
| Dural                        | Nature Reserve | NSW   | In buffer area only      |
| Garigal                      | National Park  | NSW   | In buffer area only      |
| Ku-ring-gai Chase            | National Park  | NSW   | In buffer area only      |
| Lane Cove                    | National Park  | NSW   | In feature area          |
| Newington                    | Nature Reserve | NSW   | In buffer area only      |
| Parramatta River             | Regional Park  | NSW   | In buffer area only      |
| Sydney Harbour               | National Park  | NSW   | In buffer area only      |
| Wallumatta                   | Nature Reserve | NSW   | In buffer area only      |

| Nationally Important Wetlands      |       | [ Resource Information ] |
|------------------------------------|-------|--------------------------|
| Wetland Name                       | State | Buffer Status            |
| <a href="#">Bicentennial Park</a>  | NSW   | In buffer area only      |
| <a href="#">Newington Wetlands</a> | NSW   | In buffer area only      |

| EPBC Act Referrals                              |            |                  |                   | [ Resource Information ] |
|-------------------------------------------------|------------|------------------|-------------------|--------------------------|
| Title of referral                               | Reference  | Referral Outcome | Assessment Status | Buffer Status            |
| <a href="#">Coonara Residential Development</a> | 2023/09508 |                  | Post-Approval     | In buffer area only      |
| <a href="#">Parramatta Light Rail Stage 2</a>   | 2022/09300 |                  | Post-Approval     | In buffer area only      |

| Title of referral                                                                               | Reference  | Referral Outcome      | Assessment Status | Buffer Status       |
|-------------------------------------------------------------------------------------------------|------------|-----------------------|-------------------|---------------------|
| <a href="#">Westleigh Park Development</a>                                                      | 2023/09746 |                       | Completed         | In buffer area only |
| Controlled action                                                                               |            |                       |                   |                     |
| <a href="#">Concept Plan Proposal for residential and commercial development of UTS Kuring-</a> | 2008/4083  | Controlled Action     | Post-Approval     | In buffer area only |
| <a href="#">North West Rail Link</a>                                                            | 2012/6360  | Controlled Action     | Post-Approval     | In buffer area only |
| <a href="#">Proposed Residential Development and Demolition of Existing Dwelling</a>            | 2008/4155  | Controlled Action     | Completed         | In buffer area only |
| <a href="#">Redevelopment, Upgrade and Expansion of Wahroonga Estate</a>                        | 2008/4460  | Controlled Action     | Post-Approval     | In buffer area only |
| <a href="#">Relocation of Grey-Headed Flying-Fox Colony</a>                                     | 2008/4646  | Controlled Action     | Post-Approval     | In buffer area only |
| <a href="#">Residential development of Lot 12, DP 17431</a>                                     | 2007/3455  | Controlled Action     | Completed         | In buffer area only |
| <a href="#">Residential Development of Lot 7 DP 270109 Eldon Green, West Pennant Hills</a>      | 2010/5610  | Controlled Action     | Post-Approval     | In buffer area only |
| <a href="#">residential subdivision 5 residential allotments DP 270109</a>                      | 2005/2340  | Controlled Action     | Completed         | In buffer area only |
| <a href="#">Shell Clyde Terminal Expansion, Rosehill, NSW</a>                                   | 2013/6878  | Controlled Action     | Post-Approval     | In buffer area only |
| Not controlled action                                                                           |            |                       |                   |                     |
| <a href="#">ABC Gore Hill, Lanceley Place Site Redevelopment</a>                                | 2002/908   | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">ABC Proposed Sale of Property Commonwealth Land</a>                                 | 2020/8855  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Artarmon Helipad Relocation</a>                                                     | 2001/186   | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Change of use of existing room in research laboratory</a>                           | 2002/665   | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Clyde Barging Facility, Grand Avenue, Rosehill, NSW</a>                             | 2018/8140  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Construct and operate an aerial adventure park</a>                                  | 2012/6239  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Construction, operation and maintenance of a new zone substation</a>                | 2011/5901  | Not Controlled Action | Completed         | In buffer area only |

| Title of referral                                                                                            | Reference | Referral Outcome      | Assessment Status | Buffer Status       |
|--------------------------------------------------------------------------------------------------------------|-----------|-----------------------|-------------------|---------------------|
| Not controlled action                                                                                        |           |                       |                   |                     |
| <a href="#">Construction and Operation of the Parramatta Rail Link - between Parramatta and</a>              | 2002/673  | Not Controlled Action | Completed         | In feature area     |
| <a href="#">construction of four dwellings and associated facilities</a>                                     | 2005/2396 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Decommissioning of Army Depot, Haberfield</a>                                                    | 2001/217  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Demolition of Ablutions Block, Snapper Island, NSW</a>                                           | 2018/8303 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Fuel Reduction Proposal Redfield Road, East Killara</a>                                          | 2003/1238 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">Gore Hill Conservation Management Plan</a>                                                       | 2000/109  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia</a> | 2015/7522 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">INDIGO Central Submarine Telecommunications Cable</a>                                            | 2017/8127 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Ivanhoe Estate Redevelopment, Macquarie Park, NSW</a>                                            | 2019/8455 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">M2 Motorway Upgrade</a>                                                                          | 2010/5329 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">Parramatta Light Rail (Stage 1) - Westmead to Carlingford, via Parramatta CBD</a>                | 2017/7966 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Proposed third rail track and associated infrastructure</a>                                      | 2013/6760 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Pymble Ladies College Proposed Senior's Learning Centre and Carparking Area</a>                  | 2009/5168 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Redevelopment of Lot 1 DP 375262 and Lot 1 DP 726091 (formerly John Williams Res</a>             | 2006/3161 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Rehabilitation works of the Coogee Sewer Diversion Submain - Maxwell Avenue, Mar</a>             | 2004/1683 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Remediation of contaminated asbestos site</a>                                                    | 2002/608  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Remediation of Contaminated Buildings</a>                                                        | 2005/1983 | Not Controlled Action | Completed         | In buffer area only |

| Title of referral                                                                                | Reference | Referral Outcome      | Assessment Status | Buffer Status       |
|--------------------------------------------------------------------------------------------------|-----------|-----------------------|-------------------|---------------------|
| Not controlled action                                                                            |           |                       |                   |                     |
| <a href="#">Remediation of Contaminated Soil</a>                                                 | 2005/1985 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Removal of up to 7 trees at 17 Kissing Point Road, Turramurra, NSW</a>               | 2014/7369 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Residential Development - 55 Coonara Avenue, West Pennant Hills NSW 2125</a>         | 2021/8995 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Residential Land Subdivision</a>                                                     | 2011/5963 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Residential subdivision, cnr Doris Hirst Place and Highs Road</a>                    | 2005/2392 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Residential subdivision and stormwater management facilities</a>                     | 2003/1141 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">Residential subdivision works, Spurway St, Ermington</a>                             | 2003/1130 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Sale of Lot 1 DP858405 Turramurra NSW</a>                                            | 2001/454  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">sewage treatment plant process and reliability renewals project</a>                  | 2005/2186 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">subdivision and development on the Rhodes Peninsula for residential and commerci</a> | 2003/1249 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">Subdivision and sale of Commonwealth land in Pymble to Ku-ring-gai City Council</a>  | 2004/1368 | Not Controlled Action | Completed         | In feature area     |
| <a href="#">Subdivision for warehouse construction</a>                                           | 2000/119  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Sub-division of 44 Blytheswood Avenue</a>                                            | 2002/566  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Sydney Metro Network Stage 2</a>                                                     | 2010/5307 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Tree Removal Under 10/50 Vegetation Clearance, 10B Dalkeith Rd, Cherrybrook, NSW</a> | 2014/7337 | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">Turramurra Retirement Village</a>                                                    | 2001/413  | Not Controlled Action | Completed         | In buffer area only |
| <a href="#">V8 Supercars "Sydney 400" Event</a>                                                  | 2009/4782 | Not Controlled Action | Completed         | In buffer area only |

Not controlled action (particular manner)

| Title of referral                                                                | Reference    | Referral Outcome                          | Assessment Status                        | Buffer Status       |
|----------------------------------------------------------------------------------|--------------|-------------------------------------------|------------------------------------------|---------------------|
| Not controlled action (particular manner)                                        |              |                                           |                                          |                     |
| <a href="#">INDIGO Marine Cable Route Survey (INDIGO)</a>                        | 2017/7996    | Not Controlled Action (Particular Manner) | Post-Approval                            | In buffer area only |
| <a href="#">Replacement of flows with recycled water</a>                         | 2006/3050    | Not Controlled Action (Particular Manner) | Post-Approval                            | In buffer area only |
| <a href="#">Rhodes 132/11 kV Zone Substation</a>                                 | 2010/5779    | Not Controlled Action (Particular Manner) | Post-Approval                            | In buffer area only |
| <a href="#">Site 68, Sydney Olympic Park mixed development, Homebush, NSW</a>    | 2015/7445    | Not Controlled Action (Particular Manner) | Post-Approval                            | In buffer area only |
| Referral decision                                                                |              |                                           |                                          |                     |
| <a href="#">Construction, operation and maintenance of a new zone substation</a> | 2011/5897    | Referral Decision                         | Completed                                | In buffer area only |
| <a href="#">Ivanhoe Estate Redevelopment, Macquarie Park, NSW</a>                | 2018/8184    | Referral Decision                         | Completed                                | In buffer area only |
| <a href="#">Relocation of Grey-Headed Flying-Fox Colony</a>                      | 2008/4568    | Referral Decision                         | Completed                                | In buffer area only |
| Bioregional Assessments                                                          |              |                                           | [ <a href="#">Resource Information</a> ] |                     |
| SubRegion                                                                        | BioRegion    | Website                                   | Buffer Status                            |                     |
| Sydney                                                                           | Sydney Basin | <a href="#">BA website</a>                | In feature area                          |                     |

# 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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