

Short Range Endemic Invertebrate Assessment of NBT-WGA 132 kV Line, Perth, Western Australia.



Report by *Invertebrate Solutions Pty Ltd*
for Western Power.
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Frontispiece: The tree cricket *Pachysaga munggai* from the Swan Coastal Plain.

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Executive Summary

This Supporting Document has been prepared for the Electricity Networks Corporation (Western Power), to accompany a section 38 referral of the Neerabup to Wangara 132 kilovolt (kV) Overhead Transmission Line project (the Project) under Part IV of the *Environmental Protection Act 1986* (EP Act) to the Environmental Protection Authority (EPA). The Proposal is located 17.5 km north of Perth CBD in the City of Wanneroo and includes the construction of a dual circuit 132 kilovolt (kV) transmission line from Neerabup Terminal to intersect an existing transmission line (MUL-WGA 81) at the Wangara Substation, a length of approximately 21.5 kilometres (km). Enabling works will occur along the proposed line route, involving the relocation and/or undergrounding of existing distribution lines and utility assets to facilitate the construction and future operation of the new 132 kV transmission line.

To support the environmental assessment process, Western Power has requested Invertebrate Solutions Pty Ltd (Invertebrate Solutions) to undertake a desktop assessment for short range endemic (SRE) and conservation significant invertebrate fauna, within the Project Development Envelope (PDE).

A search of the Western Australian Museum (WAM) databases for potential SRE taxa occurring in the Desktop Study area centred on the Project was undertaken. The Desktop Study Area contains three Confirmed SRE species. An additional seven species were identified within the Desktop Study Area as being Likely SRE species. The remaining species identified from desktop resources were found to be widespread and not SRE species.

Three conservation significant native bees; comprising one threatened species listed under the *Biodiversity Conservation Act 2016* (BC Act) and *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and two Department of Biodiversity Conservation and Attractions listed Priority species, identified during the desktop assessment have potential habitat within the PDE based upon the known preferences for each species:

- *Hesperocolletes douglasi* (BC Act Critically Endangered, EPBC Act Critically Endangered) – High Likelihood; floristic associations include *Philothea spicata*, *Patersonia occidentalis*, two species of *Stylidium*, a species of *Scaevola* and species from Fabaceae and Myrtaceae that may be present within fauna habitats: *Adenanthos*/ Plantation; *Banksia* Woodland; Mixed shrubland; *Melaleuca* woodland; Trees over cleared.
- *Hylaeus globuliferus* (DBCA Priority 3) – High Likelihood; floristic associations include includes *Adenanthos cygnorum* and *Banksia attenuate* that may be present within fauna habitats: *Adenanthos*/ Plantation; *Banksia* Woodland; Trees over cleared.
- *Leioproctus contrarius* (DBCA Priority 3) – Moderate Likelihood; floristic associations include *Scaevola sp repens* var. *repens* and *Lechenaultia* spp. that may be present within fauna habitats: Trees over cleared.

Two Confirmed SRE species (*Antichiropus whistleri*) and identified during the desktop search had a High Likelihood of occurring within the PDE due to their known distributions and habitat associations:



- *Antichiropus whistleri* – High Likelihood; habitat includes *Adenanthos*/ Plantation; *Banksia* Woodland; Mixed shrubland; *Melaleuca* woodland, adjacent records to the PDE.
- *Idiosoma sigillatum* (DBCA Priority 3) – High Likelihood; habitat includes *Banksia* Woodland; Mixed shrubland; Trees over cleared, adjacent records to the PDE.

Habitat for the SRE and conservation significant invertebrate appears to extend laterally into adjacent intact vegetation, based upon aerial imagery. Larger tracts of remnant vegetation provide superior habitat for SRE and conservation significant invertebrates, compared to narrow strips of native vegetation, such as present within the PDE, that are subject to edge effects such as weed incursions. The narrow fringing habitats that are within the PDE are of generally lower quality compared with adjacent larger tracts of native vegetation and therefore have lower ecological value for species

No surveys for SRE or conservation significant invertebrates using specific techniques to detect the presence of potential SRE or conservation significant invertebrate species have been undertaken within the PDE. Preservation of existing habitat within the PDE is the optimal method to minimise impacts to both SRE and conservation significant invertebrate species as other mitigation methods, such as translocation are largely unviable for invertebrates.

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1. Introduction

This Supporting Document has been prepared for the Electricity Networks Corporation (Western Power), to accompany a section 38 referral of the Neerabup to Wangara 132 kilovolt (kV) Overhead Transmission Line project (the Project) under Part IV of the *Environmental Protection Act 1986* (EP Act) to the Environmental Protection Authority (EPA). The Proposal is located 17.5 km north of Perth CBD in the City of Wanneroo and includes the construction of a dual circuit 132 kilovolt (kV) transmission line from Neerabup Terminal to intersect an existing transmission line (MUL-WGA 81) at the Wangara Substation, a length of approximately 21.5 kilometres (km). Enabling works will occur along the proposed line route, involving the relocation and/or undergrounding of existing distribution lines and utility assets to facilitate the construction and future operation of the new 132 kV transmission line.

The Western Australian Government's announcement to retire coal generation by 2030 requires the removal of constraints on existing connected generation and additional capacity to allow connection of new generators to the SWIS. The Project is part of the South West Interconnected System Transmission Plan, which sets out the State Government's vision for Western Power's transmission network and builds on extensive modelling and system planning carried out in the Whole of System Plan 2020, the South West Interconnected System Demand Assessment: 2023 and 2024, and the South West Interconnected System Planning Update. These Plans are publicly available on the WA government website and Western Power website.

The Project forms a critical component of the Clean Energy Link (CEL) North program, designed to alleviate transmission constraints and facilitate integration of renewable energy sources into the South West Interconnected System (SWIS) and will create new circuits between Neerabup Terminal and the connecting zone substations to improve utilisation of the 330 kV and 132 kV networks in transferring electricity generated from the Mid West to supply Perth's northern suburbs.

To support the environmental assessment process, Western Power requested Invertebrate Solutions Pty Ltd (Invertebrate Solutions) to undertake a desktop assessment for short range endemic (SRE) and conservation significant invertebrate fauna for the Project.

The Project consists of a 68.12 ha Project Development Envelope (PDE).

1.1. Purpose of this report

Invertebrate Solutions has been requested by Western Power to undertake a desktop assessment for SRE and conservation significant invertebrates for the Project, and specifically address the following:

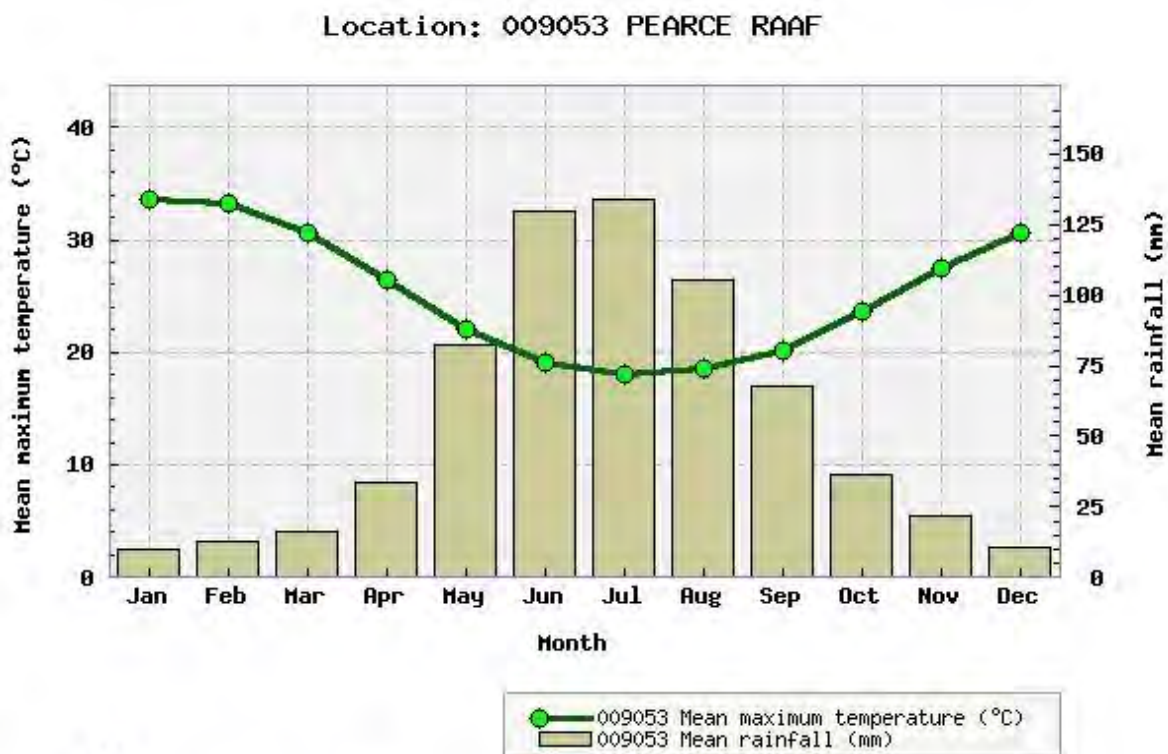
- Undertake a desktop assessment for SRE invertebrates and conservation significant invertebrates to identify known SRE and conservation significant invertebrate fauna in the area, as well as habitats in which they are likely to occur.
- The desktop assessment will be undertaken with regard to Technical Guidance – Sampling of short range endemic invertebrate fauna (EPA 2016).

1.2. Background Environmental Information

The Interim Biogeographic Regionalisation of Australia (IBRA) classifies Australia's landscapes into 89 large geographically distinct bioregions based on common climate, geology, landform, native vegetation, and species information (DCCEEW 2022). The Project is located within the Swan Coastal Plain (SCP) bioregion. The SCP is a low lying coastal plain, mainly covered with Banksia or Tuart woodlands on sandy soils, *Allocasuarina obesa* on outwash plains, and paperbark in swampy areas. In the east, the plain rises to duricrusted Mesozoic sediments dominated by Jarrah woodland (Environment Australia 2000).

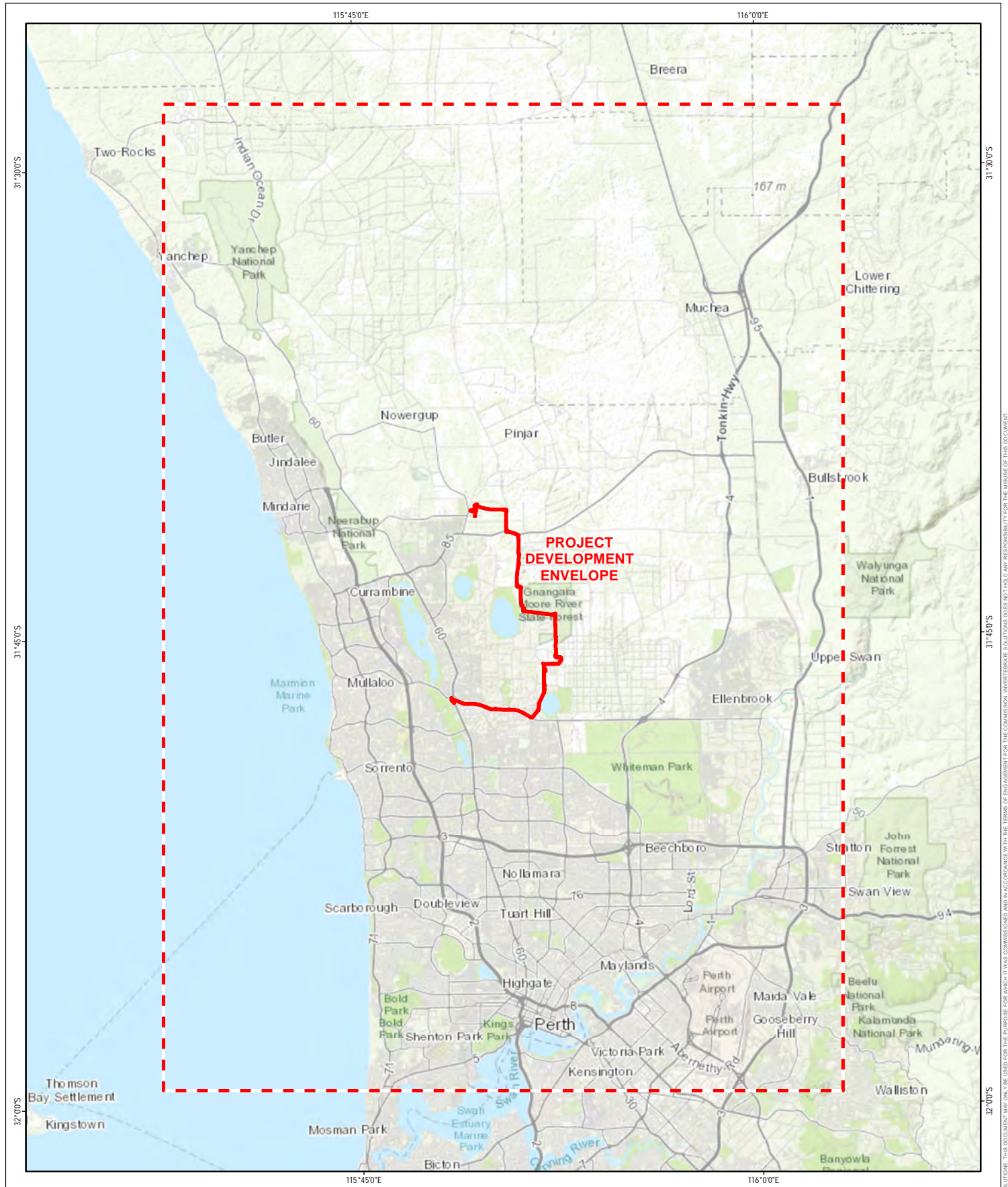
The Desktop Study Area boundary and the PDE are shown in Figure 1. The Desktop Study area comprises approximately 225,000 ha rectangle bounded by the northwest corner (31.464381°S, 115.633009°E) and the southeast corner (31.994058°S, 116.049951°E), centred on the Project. The PDE is situated on the northern SCP which has a mediterranean climate characterised by hot dry summers and cool wet winters (Plate 1), with an average annual rainfall of 671.6 mm recorded at the Bureau of Meteorology (BoM) Station 009053 at Pearce RAAF (BoM 2025), located to the east of the Project. Annual rainfall is seasonal with most rainfall occurring during the winter months, linked to low pressure systems in the Southern Ocean (May to August).

This report has been prepared with regard to the Technical Guidance – Sampling of short range endemic invertebrate fauna (EPA 2016).



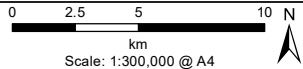
Australian Government
Bureau of Meteorology

Plate 1 Mean rainfall and maximum temperature at Pearce RAAF (source www.bom.gov.au).



Legend

- Desktop Study Area
- Project Development Envelope



-NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS

LOCALITY MAP



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HORIZONTAL DATUM & PROJECTION GDA2020 MGA Zone 50
DATE 17/02/2026

PROJECT
 NBT-WGA 132kv Line

CREATED	CHECKED	APPROVED	REVISION
ENVIRONMAPS	TM	TM	0

Western Power

Figure 1
Project Development Envelope and Desktop Study Area

1.3. Introduction to SRE invertebrate fauna

SRE invertebrates are species with restricted distributions. The isolation of invertebrates in specific habitats or bioregions leads to endemism at various spatial scales. The vast majority of invertebrates are capable of dispersing substantial distances at some phase of their life cycle. Some groups, however, are susceptible to short-range endemism which describes endemic species with restricted ranges, arbitrarily defined in Western Australia as less than 10,000 km² (100 km x 100 km) (Harvey 2002). Taxa that have been more commonly found to contain SRE representatives include:

- Onychophorans (velvet worms);
- Crustaceans (Isopoda);
- Arachnids (mygalomorph spiders, pseudoscorpions, opiliones, scorpions, schizomids);
- Myriapods (millipedes and centipedes);
- Molluscs (land snails); and
- Insects (hemipterans, grasshoppers, butterflies).

SRE invertebrate fauna taxa are generally found in sheltered, relatively mesic environments such as isolated habitats (e.g., boulder piles, isolated hills, dense patches of vegetation, gullies) and can include microhabitats within these environments such as deep leaf litter accumulation, large logs, under bark, cave areas, and springs and permanent water bodies.

Many processes contribute to taxa being susceptible to short range endemism. Generally, these factors are related to the isolation of a species which can include the ability and opportunity to disperse, life history, physiology, habitat requirements, and habitat availability. Taxa that exhibit short range endemism generally exhibit poor dispersal, low growth rates, low fecundity, and reliance on habitat types that are discontinuous (Harvey 2002). Taxa that reside within easily isolated habitats surrounded by physical barriers such as islands, mountains, aquifers, lakes and caves are also more susceptible to becoming SRE species, often including additional taxa not otherwise generally forming SREs.

Taxa that exhibit short range endemism are particularly vulnerable to disturbance, either natural or anthropogenic, as they are reliant upon specialised, often restricted and often moist habitats (Framenau *et al.* 2008). SRE taxa are unable to disperse to *refugia* when their habitats are threatened or destroyed, thus making them a priority for conservation efforts.

The allocation of SRE status can be difficult due to the often incomplete taxonomic framework of many invertebrate groups and the often frequent need for substantial revision to enable accurate identification. SRE status is assigned using the categories described in Table 1, based upon the available information from the Western Australian Museum (WAM) database and discussion with appropriate taxonomic authorities for various invertebrate groups. Insufficient information exists for many invertebrate species due to specimens being juvenile, the wrong sex to allow identification, or damaged, as well as inadequate taxonomic frameworks, precluding the assignment of SRE status.

Table 1 Short Range Endemic Status of Species

SRE Status	Definition
Confirmed	A confirmed SRE species. A known distribution of < 10,000 km ² (after Harvey 2002). Taxonomy of the group is well known. The group is well represented in collections, or via comprehensive sampling.
Likely	Likely to be an SRE species based upon knowledge of the family/genus, where other closely related species show evidence of short range endemism. Where habitats containing the specimens show discontinuity within the landscape.
Possible	Based upon existing knowledge of the genus / family there is a possibility that the species may have a restricted range. Where habitats containing the specimens may show discontinuity within the landscape. Possible SRE species may be assigned one of the subcategories below: <ul style="list-style-type: none"> A. Data deficient, i.e., new species; lack of distribution, taxonomic or collecting knowledge; juvenile specimens; wrong sex for identification B. Habitat indicators C. Morphology indicators D. Molecular evidence E. Research and expertise of WAM staff/taxonomic specialists
Widespread	Not an SRE, a wide ranging distribution of > 10,000 km ²

1.4. Conservation Legislation and Guidance Statements

Terrestrial SRE species are protected under State legislation via the BC Act which came into effect on 1st January 2019, replacing the *Wildlife Conservation Act 1950* (WC Act). The BC Act is aligned with the federal EPBC Act. The assessment of SRE fauna for environmental impact assessment (EIA) is undertaken in Western Australia with regard to Technical Guidance – Sampling of short range endemic invertebrate fauna (EPA 2016).

At the State level, the BC Act provides a list of threatened species that have special protection as species listed under Part 2 of BC Act. This notice is updated periodically by DBCA (formerly the Department of Parks and Wildlife (DPaW) and the current list (October 2022) includes numerous threatened SRE species from the Wheatbelt, South Coast, Murchison and Pilbara regions. Included in the list are crustaceans, arachnids and myriapods that are considered to be “rare or likely to become extinct, as critically endangered fauna, or are declared to be fauna that is in need of special protection” (DBCA 2022).

In addition to the specially protected fauna, DBCA also maintains a list of Priority fauna that are considered to be of conservation significance but do not meet the criteria for formal listing under the BC Act. Priority is not a listing category under the BC Act, however, all fauna and flora are protected in WA following the provisions in Part 10 of the BC Act. The protection applies even when a species is not listed as threatened or specially protected, and regardless of land tenure (DBCA 2022). Species that may possibly be threatened but do not meet the criteria for formal listing under the BC Act because of data deficiencies, are added to the Priority Fauna List under Priorities 1, 2 or 3, in order of prioritisation for evaluation of conservation status so that consideration can be given to potential listing as threatened (DBCA 2022). Species that are adequately known, meet criteria for

near threatened, or are rare but not threatened, or that have been recently removed from the threatened species list or conservation dependent or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. The Priority fauna list is irregularly updated by DBCA. The South West region contains thirteen conservation significant spiders, burrowing crayfish, and crickets, along with various aquatic snails.

The BC Act provides the ability for the State government of WA to formally list Threatened Ecological Communities (TECs), and Priority Ecological Communities (PECs) along with threatening processes.

The federal EPBC Act protects both species and ecological communities. Sixteen invertebrates are listed in Western Australia with five of these species being from the Swan Coastal Plain.

1.5. Report Limitations and Exclusions

This study was limited to the written scope and proposal provided by Invertebrate Solutions (3rd February 2026) and in Section 1.1. This study was limited to the extent of information made available to Invertebrate Solutions at the time of undertaking the work. Information not made available to this study, or which subsequently becomes available may alter the conclusions made herein.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. Invertebrate Solutions has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by Invertebrate Solutions described in this report (this section and throughout this report). Invertebrate Solutions disclaims liability arising from any of the assumptions being incorrect.

Invertebrate Solutions has prepared this report on the basis of information provided by Western Power and others (including Government authorities), which Invertebrate Solutions has not independently verified or checked beyond the agreed scope of work. Invertebrate Solutions does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

Searches of the Western Australian Museum's database records may not return all species present in a search area as database records are sometimes incomplete, or missing. Invertebrate Solutions does not accept liability in connection with such omissions.

PDE conditions may change after the date of this report. Invertebrate Solutions does not accept responsibility arising from, or in connection with, any change to the PDE conditions. Invertebrate Solutions is also not responsible for updating this report if the PDE conditions change.

2. Methods

Invertebrate Solutions undertook the following tasks for the desktop SRE assessment of the Desktop Study area, that contains the PDE:

- SRE desktop assessment based upon WAM Records, database searches, and literature review.

The desktop assessment was undertaken with regard to the Technical Guidance – Sampling of short range endemic invertebrate fauna (EPA 2016).

2.1 SRE Desktop Methodology

A search of the WAM databases for Arachnids, Crustacea and Molluscs was undertaken for potential SRE taxa occurring in the northern Swan Coastal Plain region. The desktop assessment was used to identify any potential SRE species that may occur in the region within the PDE.

The search of the WAM databases for potential SRE taxa occurring in the broader Desktop Study area was centred on the Project. The records held by the WAM are not exhaustive and represent only specimens within the WAM collections that have been registered in the database. The Entomology, Mollusc and Crustacean collections remain largely un-registered. Specimens identified to genus level only have been excluded from the analysis as it is impossible to determine if they represent a SRE taxa.

2.1.1 Likelihood of SRE invertebrate occurrence

The likelihood of SRE invertebrate species occurring in the PDE was assessed using a combination of regional and local botanical and landform information and database searches including:

- Analysis of published and unpublished reports concerning SRE invertebrate from the region.
- Results from the Protected Matters Search Tool (PMST) (from the Federal Government’s Department of Climate Change, Energy, and the Environment (DCCEEW) website.
- Records of fauna held by the WAM.
- Vegetation descriptions and mapping within the PDE (AECOM 2024).

The likelihood that a particular vegetation unit potentially contains or supports SRE species is defined in Table 2.

A list of conservation significant fauna for the Desktop Study Area was compiled from the DBCA Specially Protected Fauna Notice 2024 (DBCA 2024) and DCCEEW’s PMST. Based on the analysis of all available information, potential SRE invertebrate species were assigned a level of likelihood to be present within habitats contained in the Study area of either ‘Very Low’, ‘Low’, ‘Moderate’, ‘High’, or ‘Definite’ (Table 3).

A full description of the BC Act and DBCA conservation codes are shown in Appendix 1.

Table 2 SRE habitat suitability definitions

SRE habitat Likelihood of occurrence	Definition
High	The habitat has a High likelihood of containing SRE species as it has at least three microhabitat factors that support the presence of SRE species such as: SE facing slopes, moisture, rocky areas, habitat isolates, deep leaf litter, mountainous areas, deep gullies or gorges, riparian vegetation, or habitats known to contain SRE species.
Moderate	The habitat has a Moderate likelihood of containing SRE species as it has at least two microhabitat factors that support the presence of SRE species such as: SE facing slopes, moisture, rocky areas, habitat isolates, deep leaf litter, mountainous areas, deep gullies or gorges, riparian vegetation or habitats known to contain SRE species.
Low	The habitat has a Low likelihood of containing SRE species as it has only a single microhabitat factor that support the presence of SRE species such as: SE facing slopes, moisture, rocky areas, habitat isolates, deep leaf litter, mountainous areas, deep gullies or gorges, riparian vegetation or habitats known to contain SRE species.
Nil	No potential habitat exists for SRE species within the vegetation type / condition area. This includes areas that are totally cleared, completely degraded or urbanised. This also includes areas that are dominated by weeds or exotic vegetation species.

Table 3 SRE and Conservation significant species likelihood of occurrence definitions

Short Range Endemic and Conservation significant invertebrate Likelihood of occurrence	Definition
Definite	The species is confirmed to occur within the Project Development Envelope.
High	Habitat for the species is known to occur within the Project Development Envelope and known records of the species are within 20 km.
Moderate	Habitat for the species is known to occur within the Ecological Survey area, and known records of the species are within 50 km. OR No habitat for the species is known to occur within the Ecological Survey area, and known records of the species are within 20 km
Low	The species has been recorded from within 50 km, however, no habitat is present for the species within the Project Development Envelope.
Very low	No habitat exists for the species within the Project Development Envelope and no records of the species are within 50 km or the distribution of the species is known well enough to exclude its presence within the Project Development Envelope.

2.2 Short Range Endemic Status

Taxonomic groups known to contain SRE representatives were examined in more detail to determine if SRE status is to be assigned. SRE status will be assigned after comparison with the morphology of other close relatives in the group and current knowledge on their distribution and ecology, where known.

3. Desktop SRE invertebrate Review

3.1 SRE invertebrates of Swan Coastal Plain

Terrestrial invertebrate species on the SCP that are of conservation interest to government and researchers are predominantly insects that have been assigned a conservation significance by DBCA as either formally listed under the BC Act or informally as a Priority species. The majority of the conservation significant terrestrial invertebrates on the SCP are insects, with native bees, Katydid (tree crickets) and the Graceful Sun-moth (*Synemon gratiosa*) being the most regularly encountered taxa. Many of these species are also considered SREs under the *sensu stricto* definition of Harvey (2002).

Some conservation significant invertebrates are also considered to be SRE species and some invertebrates are SRE species but have no formal conservation significance. SRE species more commonly encountered on the SCP include mygalomorph spiders, slaters, and millipedes. The SCP has a limited occurrence of invertebrate species considered to be SREs, due to urban sprawl and associated land clearance, much of the habitat for SRE and conservation significant invertebrates that once occurred on the SCP has been lost or is now highly fragmented.

Mygalomorph spiders

Idiosoma sigillatum is the dominant idiopid trapdoor spider on the SCP, where it occurs from Dalyellup north to at least Ledge Point (including Rottnest Island and Garden Island) with the eastern limit of its range along the sandy foothills of the Darling Escarpment, from Boyanup north to at least Gingin (refer WAM 2018b, Rix *et al.* 2018). Many of these records are historical in nature and occur within the Perth metropolitan area. It is highly likely that much of the habitat for this species within the Perth metropolitan area has been cleared for urban development and the species is unlikely to occur through much of its historical distribution in urban areas except in remnant habitats (e.g. Kings Park, Bold Park, and Shenton Park bushland) (Rix *et al.* 2018).

Several other mygalomorph spiders that are Likely or Potential SRE species are also found on the SCP including the species from the family Barychelidae, *Synothele michaelsoni* and *S. taurus* and *S. lowei* from the northern and north eastern SCP (Raven 1994). There are also several undescribed species of Anamid (formerly Nemesiidae) trapdoor spiders from the genus *Teyl* that occur within remnant bushland along the coastal fringe of the SCP that exhibit short range endemism (Invertebrate Solutions 2018).

Millipedes

Millipedes from the genus *Antichiropus* all have limited powers of dispersal and conservative ecological requirements (Car *et al.* 2013). In addition, the above-ground activity of most *Antichiropus* species is limited to a very small window of opportunity when there is sufficient moisture for them to forage and mate during wetter winter months (Car *et al.* 2013). *Antichiropus* species are, consequently, short-range endemics with very small distributions *sensu* Harvey 2002. The millipede *Antichiropus whistleri* is a confirmed SRE species that occurs north of the Swan River, although much of its original habitat has now been cleared for urban development. There are a few disjunct records of the species near Cataby, although following a recent re-examination of these specimens by Dr Cathy Car it is likely that these records represent a distinct and different species (Dr Cathy Car, WAM

pers. comm. 2018) and that *Antichiropus whistleri* is restricted to the northern fringe of the SCP. The genus is currently undergoing a major revision and it is expected that this taxonomic issue will be resolved in the coming years.

Katydids (Tree crickets)

The tree cricket *Throscodectes xiphos* is known only from its type locality in the southern Perth suburb of Jandakot where it was originally collected in the axial leaf bases of grass trees (*Xanthorrhoea preissei*) and is a Confirmed SRE species and is currently classified by DBCA as a Priority 1 species (Rentz.1993). Other conservation significant tree crickets include *Autrosaga spinifer* known from the Darling scarp and also a record from Melaleuca, east of Pinjar that is currently a Priority 2 species and *Kawaniphila pachomai* that occurs in the Perth Hills and to the south of Perth.

Moths

Graceful Sun-moths (GSM) are diurnal, and active on warm bright sunny days with low wind. GSM are generally restricted to the SCP but has also been recorded from the Geraldton sandplains and is known from 49 locations (Bishop *et al.* 2010). Extensive survey and genetic work undertaken throughout the SCP between 2010 – 2013 eventually saw their removal from the WC Act and the EPBC fauna list, however due to their limited distribution, small populations and rarity in nature the GSM is listed on the DBCA Priority fauna listing (Priority 4).



Plate 2 The P4 listed Graceful Sun-moth from the Wanneroo Region (Photo by G. Owen).

Native Bees

Native bees are extremely diverse and often poorly known taxonomically, however, many species are present on the SCP (Houston 2019). Native bees often exhibit close floristic associations and are pollinators of individual plant species genera. Three native bees, *Hesperocolletes douglasi*, *Leioproctus douglasiellus*, and *Neopasiphae simplicior* that occur on the SCP are currently listed as Critically Endangered under the Commonwealth EPBC Act. These species are poorly known from very few records.

Snails

Historical records of land snails in Perth record some potential SRE species, however, much of their habitat has now been developed and they are unlikely to persist throughout the metropolitan region. The confirmed SRE species *Bothriembryon serpentinus* occurs along the Darling scarp from near Serpentine south of the Perth metropolitan area.

3.2 SRE Habitat in the PDE

The PDE is largely cleared of native vegetation, with most the area comprised of existing roads and roadside revegetation, paddocks with isolated native trees, and handstand areas and is Degraded to Completely Degraded has a Nil likelihood of SRE or conservation significant invertebrate species being present.

The PDE contains multiple small areas of limited fringing native vegetation (Figure 2a-i) that provides potential habitat, or a combination of habitat and adjacent flight paths, for SRE and/or conservation significant invertebrates comprising of Banksia Woodland and open Eucalyptus woodland. These native vegetation areas are in Excellent to Good condition.

Overall the available habitat for SRE species within the broader Desktop Study area is fragmented patches of native vegetation interspersed with urban, agricultural land and plantations. Generally, on the SCP native vegetation has a Moderate to Low likelihood of containing an SRE taxa. Although all urban areas are broadly considered to be unsuitable for SRE fauna, small remnant bushland patches can, and do, support SRE fauna within the Perth metropolitan area (Rix *et al.* 2018).

At the regional scale of the Desktop Study Area that encompasses much of the northern SCP, the PDE is adjacent to Nil (urbanised), Moderate (remnant bushland and BushForever), and some areas of High (remnant Banksia Woodland TEC) SRE habitat area, however, the PDE is largely comprised of cleared, degraded roadside vegetation or scattered trees with no understorey that reduces potential SRE and conservation significant habitat to Nil in most areas, apart from small areas of remnant fringing vegetation as stated previously .

The SRE and conservation significant invertebrate habitat suitability mapping shown in Figure 2 was informed by the consolidated vegetation mapping provided by GHD (2026), and informed by AECOM (2024), PGV (2025) and SLR (2025).

Table 4 Consolidated Fauna habitat units and habitat suitability for SRE invertebrates

Consolidated Fauna Habitat units (after GHD 2026)	Description (after AECOM 2024, with modifications from SLR 2025 and PGV 2025).	SRE / Conservation Significant Invertebrate Habitat suitability
Banksia woodland	<i>Banksia menziesii</i> , <i>Banksia attenuata</i> , <i>Allocasuarina fraseriana</i> low open woodland over <i>Eremaea purpurea</i> , <i>Hibbertia hypericoides</i> and <i>Macrozamia fraseri</i> open shrubland over <i>Lyginia imberbis</i> , <i>Lepidosperma leptostachyum</i> and <i>Mesomelaena pseudostygia</i> sedgeland. ('floristic community type (FCT) 23a'). Represents Banksia Woodland TEC.	High
Melaleuca woodland	<i>Melaleuca preissiana</i> woodlands over <i>Hypocalymma angustifolium</i> , <i>Kunzea glabrescens</i> and <i>Jacksonia furcellata</i> shrubland over * <i>Ehrharta calycina</i> and <i>Microlaena stipoides</i> grassland.	Moderate
Trees Over Cleared	The understory is comprised mostly of weedy grasses and herbs, with sporadic native shrubs occurring. Plant species which occur within the Trees Over Cleared habitat include Isolated native trees <i>Eucalyptus todtiana</i> and shrubs over <i>Adenanthos cygnorum</i> <i>Xanthorrhoea preissii</i> Shrubland over weeds.	Moderate
Adenanthos/ Plantation	Consists of isolated pine trees (* <i>Pinus pinaster</i>) over native regrowth. Regrowth species include Woollybush (<i>Adenanthos cygnorum</i> var. <i>cygnorum</i>), Grasstree (<i>Xanthorrhoea preissii</i>) and <i>Macrozamia fraseri</i> . The habitat type varies in shrub density, with minimal leaf litter present throughout. As the habitat is primarily open, it provides little variety in terms of microhabitats for conservation significant fauna species.	Moderate
Mixed Shrubland	This habitat type consists of isolated native shrubs as well as planted shrubs in gardens or along the roadside	Low
Non-native vegetation		
Pine Plantation	Pine (* <i>Pinus pinaster</i>) plantation.	Nil
Cleared / Highly Modified	Cleared land - Completely cleared or modified. Includes private lots and infrastructure (roads, carparks, buildings, quarries) – some remnant trees but no intact native vegetation	Nil

* Non-native species

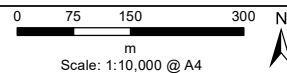


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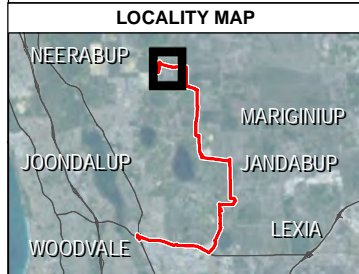
Project Development Envelope

SRE Habitat Mapping

- High SRE and Conservation Significant Habitat Value
- Moderate SRE and Conservation Significant Habitat Value
- Low SRE and Conservation Significant Habitat Value
- Nil SRE and Conservation Significant Habitat Value



- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS



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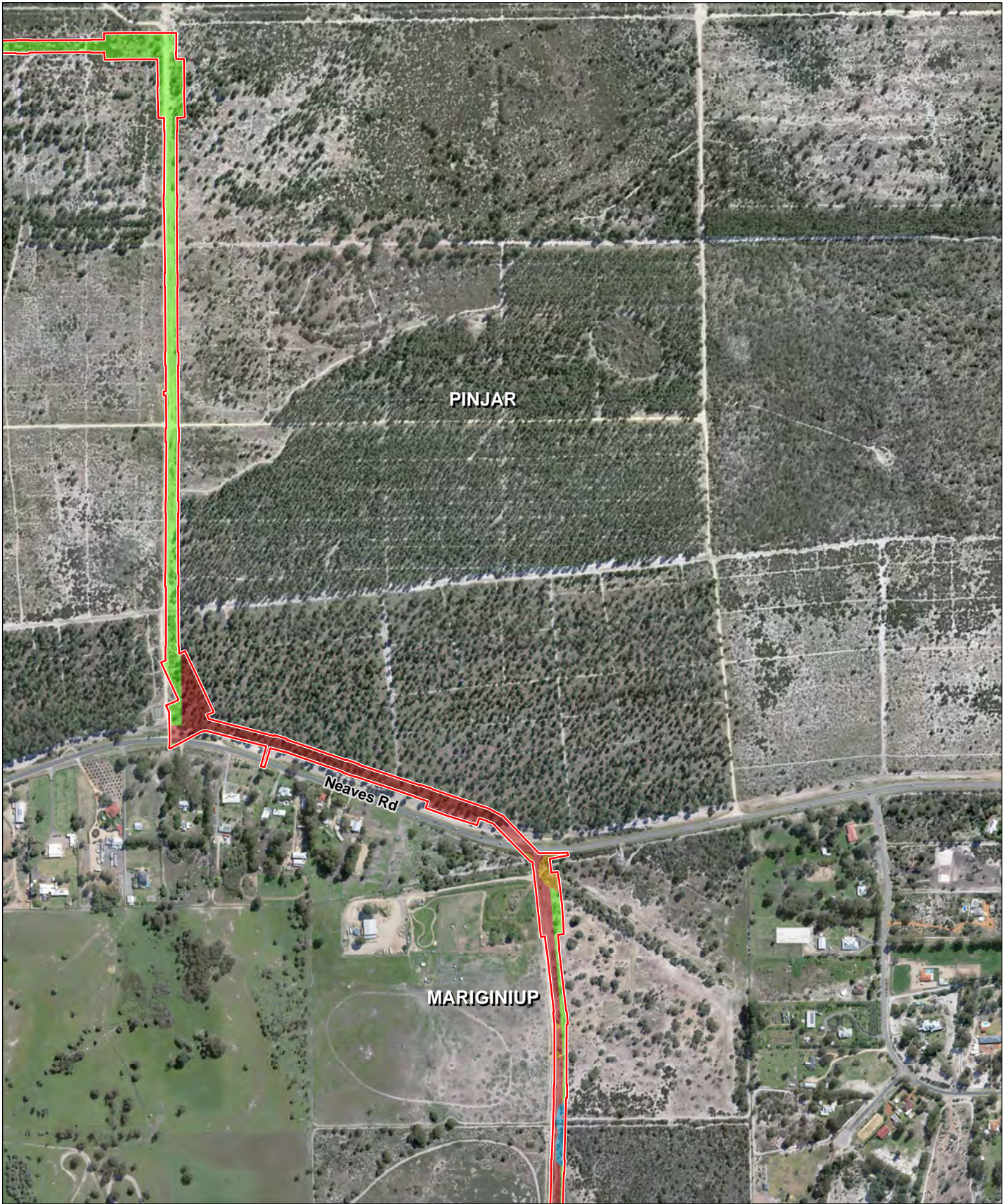
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 GDA2020 MGA Zone 50

DATE
 10/03/2026

PROJECT			
NBT-WGA 132kv Line			
CREATED ENVIRONMAPS	CHECKED TM	APPROVED TM	REVISION 0

Western Power

Figure 2a
Project Development Envelope
SRE Habitat Mapping

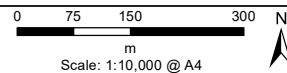


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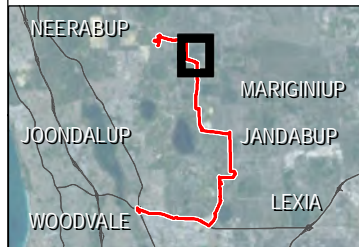
SRE Habitat Mapping

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- Moderate SRE and Conservation Significant Habitat Value
- Low SRE and Conservation Significant Habitat Value
- Nil SRE and Conservation Significant Habitat Value



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LOCALITY MAP



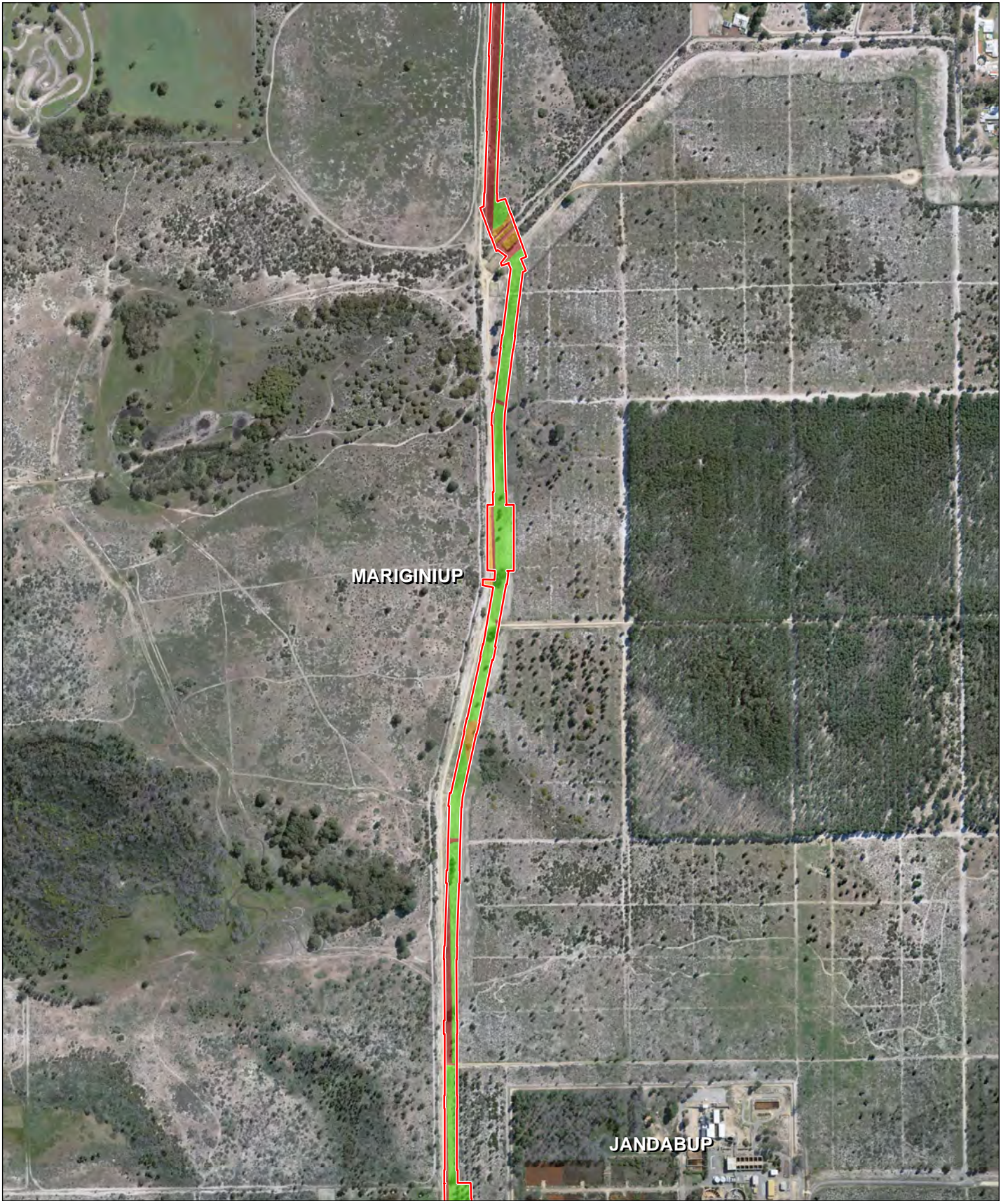
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Figure 2b
Project Development Envelope
SRE Habitat Mapping



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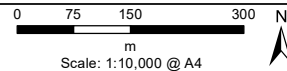
JANDABUP

Legend

Project Development Envelope

SRE Habitat Mapping

- High SRE and Conservation Significant Habitat Value
- Moderate SRE and Conservation Significant Habitat Value
- Low SRE and Conservation Significant Habitat Value
- Nil SRE and Conservation Significant Habitat Value

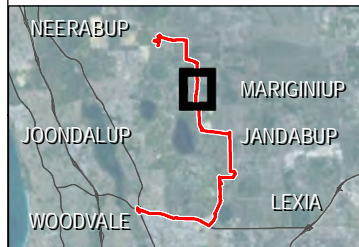


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LOCALITY MAP



PROJECT NBT-WGA 132kv Line			
CREATED ENVIRONMAPS	CHECKED TM	APPROVED TM	REVISION 0

Western Power

Figure 2c
Project Development Envelope
SRE Habitat Mapping

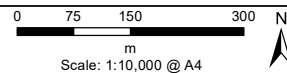


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Project Development Envelope

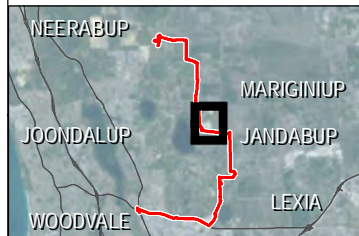
SRE Habitat Mapping

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- Moderate SRE and Conservation Significant Habitat Value
- Low SRE and Conservation Significant Habitat Value
- Nil SRE and Conservation Significant Habitat Value



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LOCALITY MAP



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PROJECT NBT-WGA 132kv Line			
CREATED ENVIRONMAPS	CHECKED TM	APPROVED TM	REVISION 0

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Figure 2d
Project Development Envelope
SRE Habitat Mapping

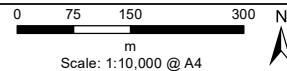


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Project Development Envelope

SRE Habitat Mapping

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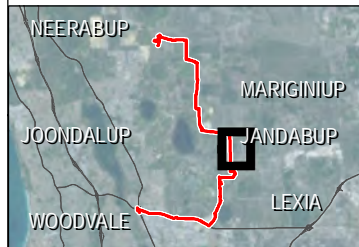


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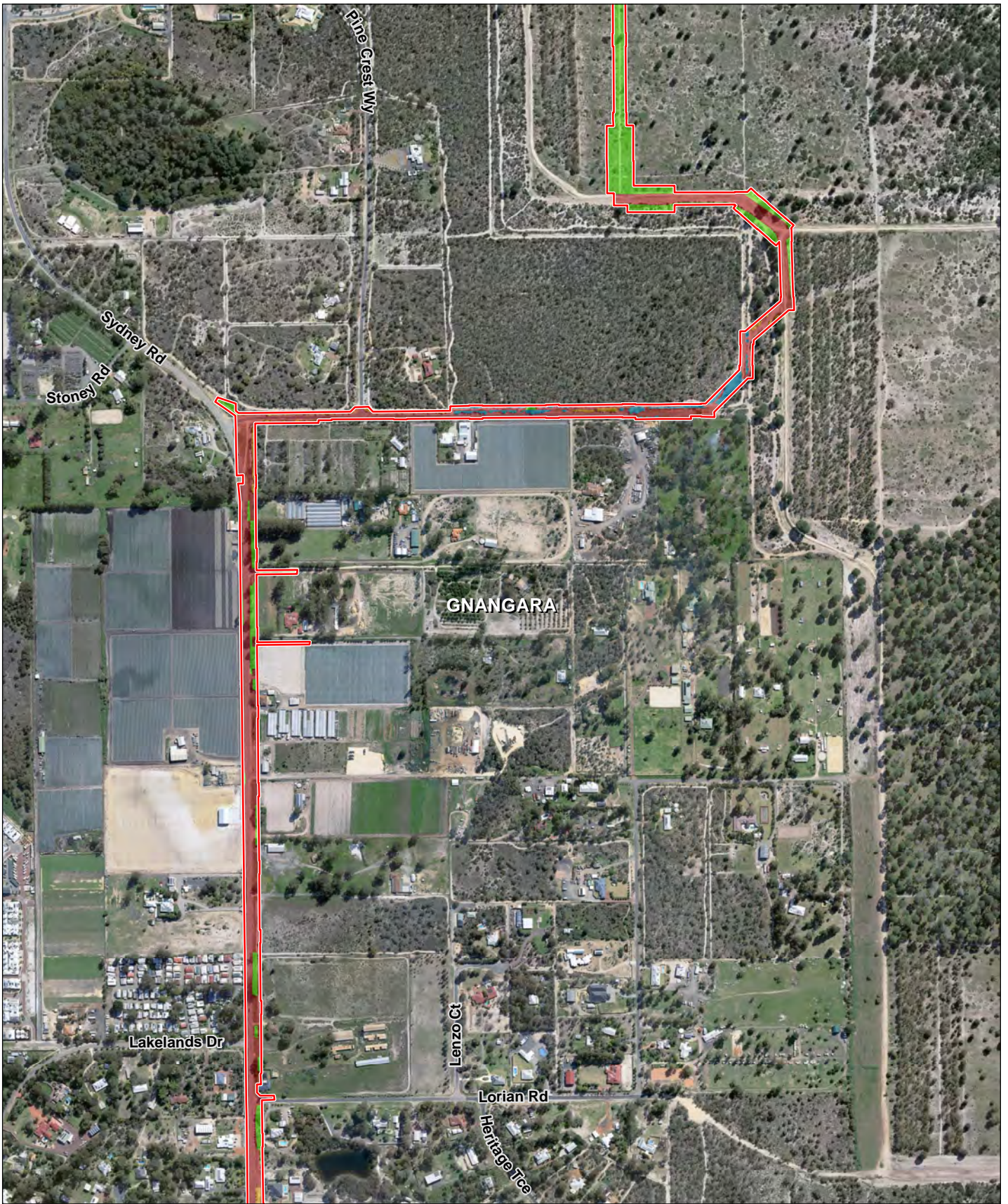
LOCALITY MAP



PROJECT NBT-WGA 132kv Line			
CREATED ENVIRONMAPS	CHECKED TM	APPROVED TM	REVISION 0

Western Power

Figure 2e
Project Development Envelope
SRE Habitat Mapping

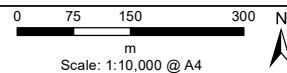


Legend

Project Development Envelope

SRE Habitat Mapping

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- Moderate SRE and Conservation Significant Habitat Value
- Low SRE and Conservation Significant Habitat Value
- Nil SRE and Conservation Significant Habitat Value

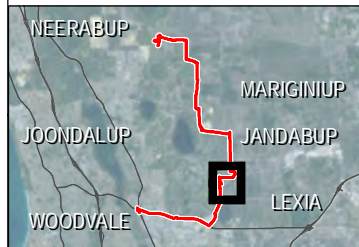


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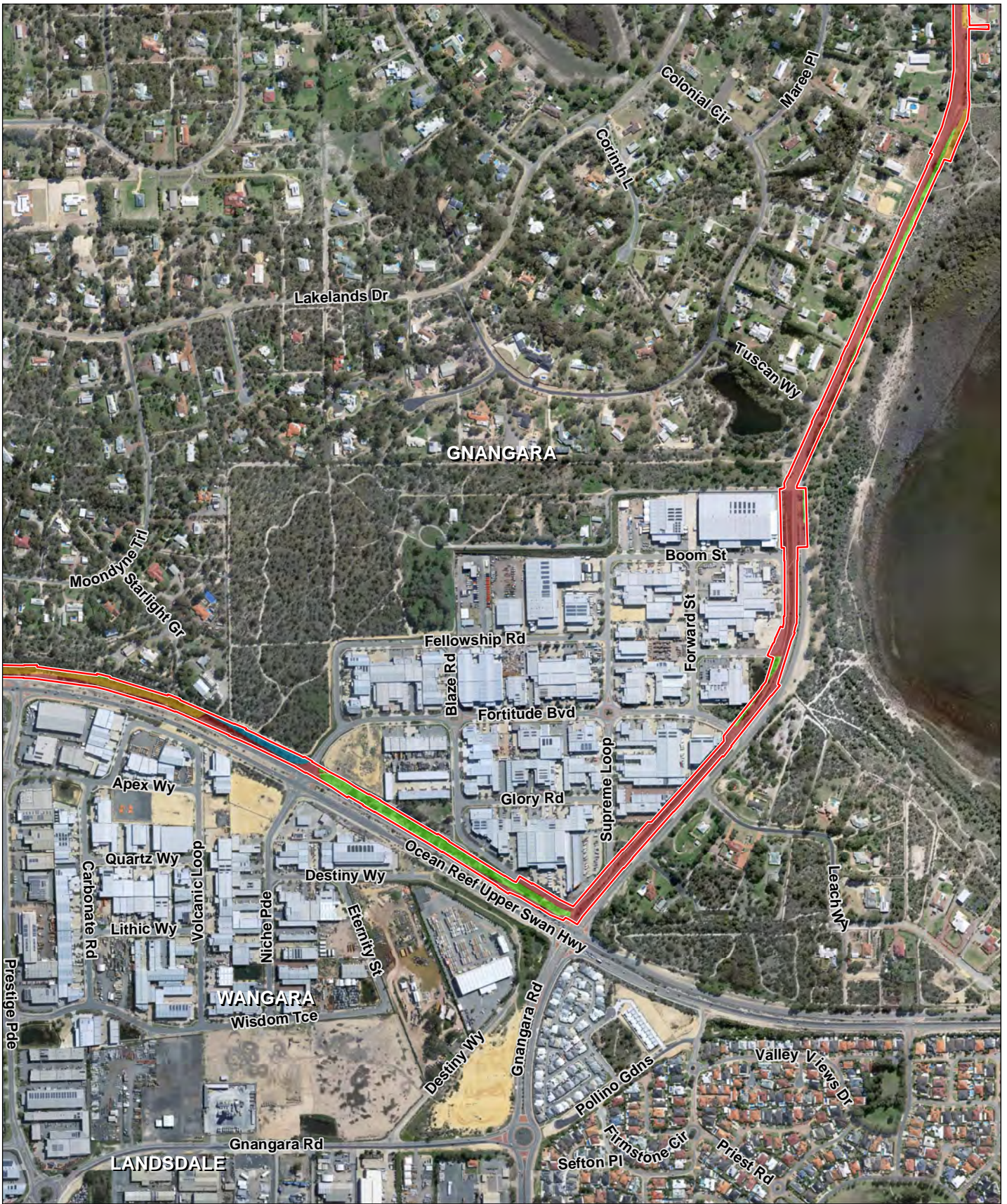
LOCALITY MAP



PROJECT			
NBT-WGA 132kv Line			
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Western Power

Figure 2f
Project Development Envelope
SRE Habitat Mapping

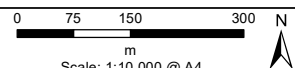


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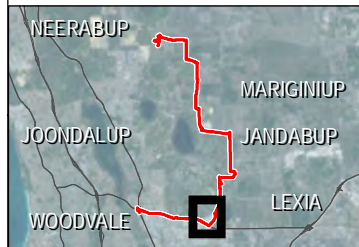
SRE Habitat Mapping

- High SRE and Conservation Significant Habitat Value
- Moderate SRE and Conservation Significant Habitat Value
- Low SRE and Conservation Significant Habitat Value
- Nil SRE and Conservation Significant Habitat Value



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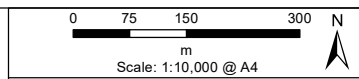
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NBT-WGA 132kv Line			
CREATED	CHECKED	APPROVED	REVISION
ENVIRONMAPS	TM	TM	0

Western Power

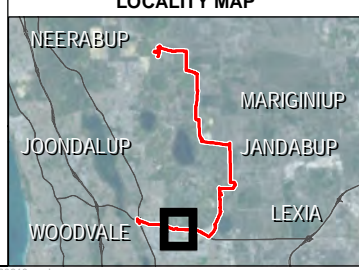
Figure 2g
Project Development Envelope
SRE Habitat Mapping



- Legend**
- Project Development Envelope
- SRE Habitat Mapping**
- High SRE and Conservation Significant Habitat Value
 - Moderate SRE and Conservation Significant Habitat Value
 - Low SRE and Conservation Significant Habitat Value
 - Nil SRE and Conservation Significant Habitat Value



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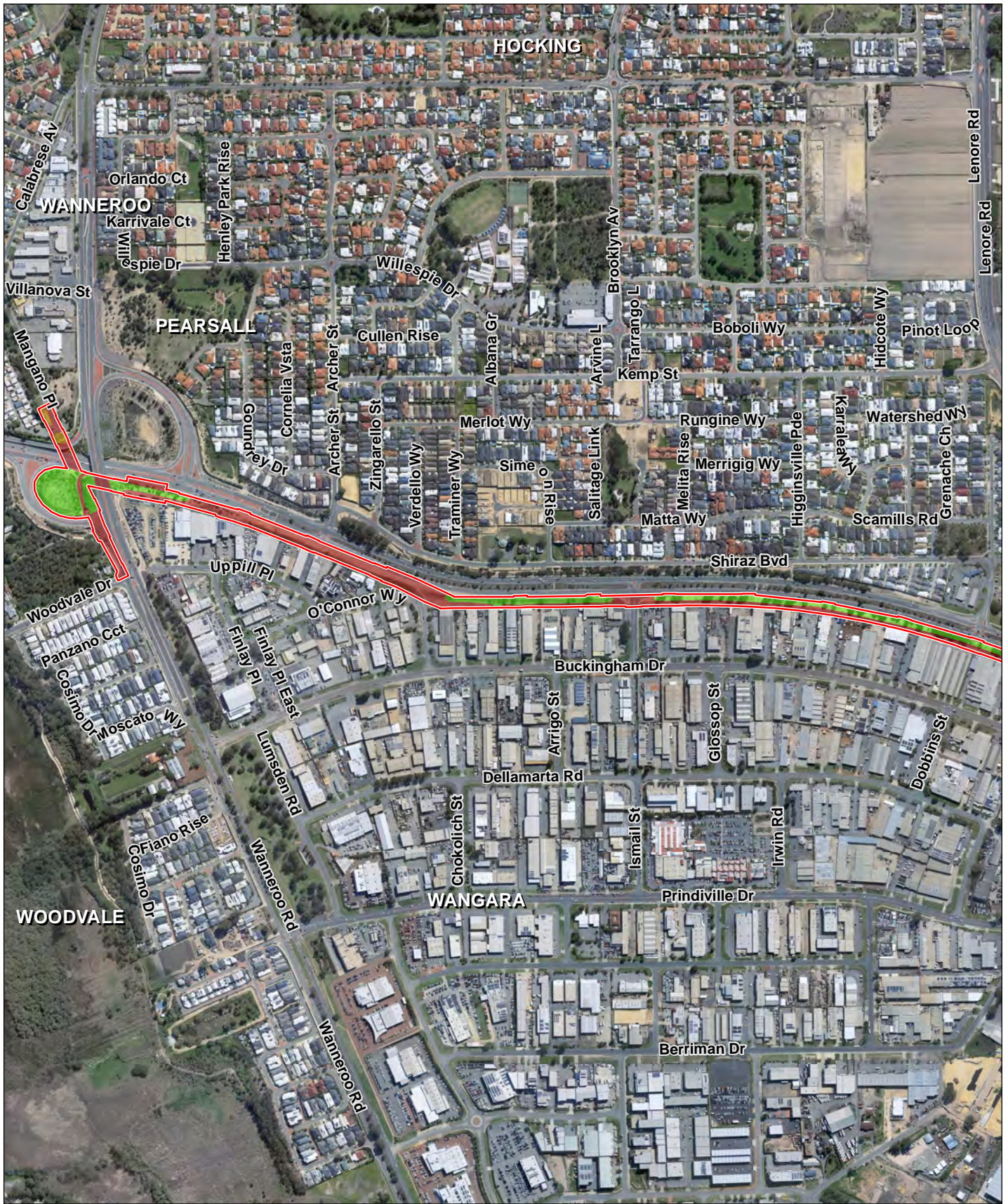


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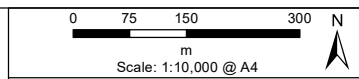
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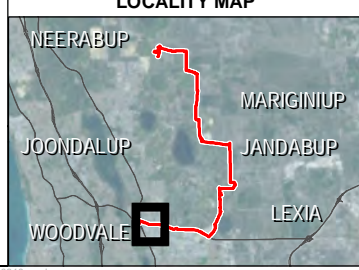
Figure 2h
Project Development Envelope
SRE Habitat Mapping



- Legend**
- Project Development Envelope
- SRE Habitat Mapping**
- High SRE and Conservation Significant Habitat Value
 - Moderate SRE and Conservation Significant Habitat Value
 - Low SRE and Conservation Significant Habitat Value
 - Nil SRE and Conservation Significant Habitat Value



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PROJECT NBT-WGA 132kv Line			
CREATED ENVIROMAPS	CHECKED TM	APPROVED TM	REVISION 0

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Figure 2i
Project Development Envelope
SRE Habitat Mapping

3.3 Conservation Significant and SRE Invertebrate Fauna in the Desktop Study Area

SRE species that are likely to occur or have known habitat within the Desktop Study Area are shown in Table 5 along with their conservation code under the BC Act and/or the EPBC Act. The PMST results listed two conservation significant native bees (*Hesperocolletes douglasi* and *Leioproctus douglasiellus*) within 20 km of the PDE. A full description of the BC Act and DBCA conservation codes are shown in Appendix 1. The full list of species obtained from the PMST search is shown in Appendix 2.

A search of the WAM databases for potential SRE taxa occurring in the broader Desktop Study area centred on the Project was undertaken (WAM 2026a, b, c). The results of these were filtered for SRE species as shown in Table 5. Definitions for SRE status are found in (Table 1).

The Desktop Study Area contains three Confirmed SRE species, (Table 5). The species are summarised below:

- One mygalomorph spider (*Idiosoma sigillatum* [DBCA Priority 3]) – Confirmed SRE species.
- One land snail (*Succinea contenta*) – Confirmed SRE species.
- One millipede (*Antichiropus whistleri*) – Confirmed SRE species.

An additional seven species were identified within the Desktop Study Area as being Likely SRE species (Table 5). The species are summarised below:

- Three slaters (*Buddelundia cinerascens*, *B. inaequalis* and *B. opaca*) – Likely SRE species.
- Three mygalomorph spiders (*Synothele lowei*, *S. michaelsoni* and *S. taurus*) – Likely SRE species
- One millipede (*Dinocambala ingens*) – Likely SRE species.

The remaining species identified from desktop resources were found to be widespread and not SRE species. Two Confirmed SRE species, the millipede *Antichiropus whistleri*, and the mygalomorph spider *Idiosoma sigillatum* identified during the desktop search had a High Likelihood of occurring within the PDE (Table 5).

An additional seven conservation significant invertebrates (widespread, non-SRE species) were identified in the desktop assessment:

- A day flying moth – *Synemon gratiosa* - DBCA Priority 4.
- Six native bees:
 - *Hesperocolletes douglasi* - DBCA Critically Endangered / EPBC Critically Endangered.
 - *Hylaeus globuliferus* – DBCA Priority 3.
 - *Leioproctus (Glossurocolletes) bilobatus*– DBCA Priority 2.
 - *Leioproctus contrarius* – DBCA Priority 3.
 - *Leioproctus douglasiellus* – BC Act Critically Endangered / EPBC Act Critically Endangered.

- *Neopasiphae simplicior* – BC Act Critically Endangered / EPBC Act Critically Endangered.

Of these seven conservation significant species three have a High or Moderate likelihood of occurrence based upon available habitat within the PDE, and the remainder all have a Low likelihood of occurrence within the PDE (Table 5):

- *Hesperocolletes douglasi* (BC Act Critically Endangered / EPBC Act Critically Endangered) – High Likelihood.
- *Hylaeus globuliferus* (DBCA Priority 3) – High Likelihood
- *Leioproctus contrarius* (DBCA Priority 3) – Moderate Likelihood.

Table 5 SRE and conservation significant Invertebrates recorded from the Desktop Study Area.

Higher Classification	Genus and Species	SRE status	DBCA / BC Act Conservation Status	EPBC Conservation Status	Fauna habitat (Table 4) present in PDE	Desktop likelihood of species within the PDE
Gastropoda						
Succineidae	<i>Succinea contenta</i>	Confirmed	-	-	Banksia woodland; Mixed shrubland	Low
Crustacea:						
Isopoda						
Armadillidae	<i>Buddelundia cinerascens</i>	Likely	-	-	<i>Adenanthos</i> / Plantation; <i>Banksia</i> Woodland; Mixed shrubland; <i>Melaleuca</i> woodland	Low
	<i>Buddelundia inaequalis</i>	Likely	-	-	<i>Adenanthos</i> / Plantation; <i>Banksia</i> Woodland; Mixed shrubland; <i>Melaleuca</i> woodland	Low
	<i>Buddelundia opaca</i>	Likely	-	-	<i>Adenanthos</i> / Plantation; <i>Banksia</i> Woodland; Mixed shrubland; <i>Melaleuca</i> woodland	Moderate
Arachnida						
Mygalomorphae						
Barychelidae	<i>Synothele lowei</i>	Likely	-	-	<i>Banksia</i> Woodland; Mixed shrubland; Trees over cleared	Moderate
	<i>Synothele michaelsoni</i>	Likely	-	-	<i>Banksia</i> Woodland; Mixed shrubland; Trees over cleared	Moderate
	<i>Synothele taurus</i>	Likely	-	-	<i>Banksia</i> Woodland; Mixed shrubland; Trees over cleared	Moderate
Idiopidae	<i>Idiosoma sigillatum</i>	Confirmed	Priority 3	-	<i>Banksia</i> Woodland; Mixed shrubland; Trees over cleared	High
Diplopoda						
Iulomorphidae	<i>Dinocambala ingens</i>	Likely	-	-	Not Present	Low
Paradoxosomatidae	<i>Antichiropus whistleri</i>	Confirmed	-	-	<i>Adenanthos</i> / Plantation; <i>Banksia</i> Woodland; Mixed shrubland; <i>Melaleuca</i> woodland	High
Insecta						
Lepidoptera	<i>Synemon gratiosa</i>	Widespread	Priority 4	-	Not Present	Low

Higher Classification	Genus and Species	SRE status	DBCA / BC Act Conservation Status	EPBC Conservation Status	Fauna habitat (Table 4) present in PDE	Desktop likelihood of species within the PDE
Hymenoptera	<i>Hesperocolletes douglasi</i>	Widespread	Critically Endangered	Critically Endangered	<i>Adenanthos</i> / Plantation; <i>Banksia</i> Woodland; Mixed shrubland; <i>Melaleuca</i> woodland; Trees over cleared	High
	<i>Hylaeus globuliferus</i>	Widespread	Priority 3	-	<i>Banksia</i> Woodland; <i>Adenanthos</i> / Plantation; Trees Over Cleared	High
	<i>Leioproctus (Glossurocolletes) bilobatus</i>	Widespread	Priority 2	-	Not Present	Low
	<i>Leioproctus contrarius</i>	Widespread	Priority 3	-	Trees Over Cleared	Moderate
	<i>Leioproctus douglasiellus</i>	Widespread	Critically Endangered	Critically Endangered	Not Present	Low
	<i>Neopasiphae simplicior</i>	Widespread	Critically Endangered	Critically Endangered	Not Present	Low

3.4 Desktop assessment SRE species within the PDE

3.4.2 Gastropoda

***Succinea contenta* – Confirmed SRE**

The land snail *Succinea contenta* occurs on Rottneest Island, remnant bushland (Bold Park) in the western Perth metropolitan area and on the Darling Scarp near John Forrest National Park (refer Figure 3, and WAM 2026c). There are no records of the species from within or adjacent to the PDE and hence the species has a Low likelihood of occurring within the PDE.

3.4.3 Crustacea: Armadillidae

***Buddelundia opaca* – Likely SRE**

This species is known principally from rocky areas of the Northern Jarrah Forest Sub Bioregion (Invertebrate Solutions 2019). Within the Desktop Study Area the species is known from the Darling scarp from Lesmurdie south to Roleystone and shows only historical records further west in the sandier habitats of the Swan Coastal Plain (refer Figure 4, WAM 2026a, Invertebrate Solutions 2019). There are no records of this species within or immediately adjacent to the PDE. The closest record is over 20 km at the base of scarp in Swan View and it is therefore a Low likelihood the species is present within remnant vegetation areas on the PDE.

***Buddelundia cinerascens/inaequalis* – Likely SRE**

The species is known from the Perth area of the Swan Coastal Plain (Figure 4, WAM 2026a). Two species of *Buddelundia* described by Budde-Lund (*B. cinerascens* & *B. inaequalis*) from near coastal parts of the Swan Coastal Plain are indistinguishable from both the descriptions (which are incomplete) and from the type material (Budde-Lund 1912, Invertebrate Solutions 2019). It is likely that they are the same species. *Buddelundia cinerascens* exhibits a restricted distribution and much of its natural habitat has been urbanised and as such, combined with the degree of taxonomic uncertainty, the species is a likely SRE species (Invertebrate Solutions 2019).

The species has been recorded near Neerabup National Park (~8 km north west of PDE) during an SRE field survey in October and November 2018 at four locations spread throughout a variety of habitats indicating that the species is locally widespread and relatively abundant (Invertebrate Solutions 2019). There are no records of this species within or immediately adjacent to the PDE. Some historical records are within coastal urban areas (<10 km to the east) near Hillarys Boat Harbour and it is therefore a Low likelihood the species is present within remnant vegetation areas on the PDE.

3.4.3 Araneae: Mygalomorphae

***Idiosoma sigillatum* – Priority 3/Confirmed SRE**

Idiosoma sigillatum (Plate 3) is the dominant idiopid trapdoor spider on the Swan Coastal Plain, where it occurs from Dalyellup north to at least Ledge Point (including Rottneest Island and Garden Island) with the eastern limit of its range along the sandy foothills of the Darling Escarpment, from Boyanup north to at least Gingin (refer Figure 3) (WAM 2026b, Rix *et al.* 2018). Many of these records are historical in nature and occur within the Perth metropolitan area. It is highly likely that much of the habitat for this species within the Perth metropolitan area has been cleared for urban

development and the species is unlikely to occur through much of its historical distribution in urban areas except in remnant habitats (e.g. Kings Park, Bold Park, and Shenton Park bushland) (Rix et al 2018).



Plate 3 Habitus of *Idiosoma sigillatum* from near Yanchep

Idiosoma sigillatum was assessed as Vulnerable according to IUCN criteria (Rix et al. 2017). It has a known range of 7,100 km², and an area of occupancy within that range of < 3,000 km² (Rix et al. 2017). It is considered to be locally extinct throughout most of its range due to extensive land clearing (Rix et al. 2018).

Burrows of *Idiosoma sigillatum* usually occur in *Banksia* woodland and heathland on sandy soils (Rix et al. 2018), although it does occur in other woodland areas. It is considered to have a High likelihood of occurrence within the PDE within remnant *Banksia* woodland areas.

***Synothele michaelsoni* – Likely SRE**

The trapdoor spider *Synothele michaelsoni* occurs on the SCP from Bibra Lake to near Hillarys Boat Harbour and on the Darling Scarp from Serpentine to north of Bindoon (refer Figure 4, WAM 2026b). There are no records of the species from within or adjacent to the PDE. Many of these records within the Perth metropolitan area are historical in nature and it is highly likely that much of the habitat for this species has been cleared for urban development and *S. michaelsoni* is unlikely to occur through much of its historical distribution in urban areas except in remnant habitats. The species has a Moderate Likelihood of occurring within remnant vegetation areas within the PDE.

***Synothele lowei* – Likely SRE**

The trapdoor spider *Synothele lowei* occurs in the north eastern edge of the SCP, north of Bullsbrook (Raven 1994) and another record between Chittering and Pearce (refer Figure 4WAM 2026b). The closest known record species 22 km to the north east of the PDE and has a sympatric distribution with another Likely SRE species *Synothele taurus* (Raven 1994) The species has a Moderate likelihood of occurring within remnant vegetation areas within the PDE.

***Synothele taurus* – Likely SRE**

The trapdoor spider *Synothele taurus* occurs in the north eastern margin of the SCP, north of Bullsbrook (refer Figure 4, WAM 2026b) (Raven 1994). The species is known only from its type locality and not been recorded since the original collection event (Raven 1994, WAM 2026b). The species has a sympatric distribution with another Likely SRE species *Synothele lowei* (Raven 1994) The species has been recorded within approximately 27 km to the northeast of the PDE and due to its sympatric distribution with *S. lowei* it has a Moderate likelihood of occurring within remnant vegetation areas within the PDE.

3.5.2 Diplopoda: Iulomorphidae

***Dinocambala ingens* – Likely SRE**

The millipede *Dinocambala ingens* occurs mainly in the Darling Scarp and adjacent jarrah forests, although its historical distribution does encompass some central Perth suburbs and Garden Island (refer Figure 4 and WAM 2026b). There are no records of the species from within or adjacent to the PDE. There are numerous records of this species from forest areas on the Darling Scarp. The distribution of this species is reasonably well known and restricted to the Jarrah forest bioregion and as such there it is not expected to be present within the PDE.

***Antichiropus whistleri* – Confirmed SRE**

The confirmed SRE millipede species *Antichiropus whistleri* has a known distribution based upon records in the WAM (2026b) from the Perth suburb of Nedlands north to past Muchea with another cluster of records near Cataby (refer Figure 3 and WAM 2026b). Many of these records within the Perth metropolitan area are historical in nature. It is highly likely that much of the habitat for this species within the Perth metropolitan area has been cleared for urban development and the species is unlikely to occur through much of its historical distribution in urban areas. It is, however, likely to be more extensively distributed in suitable habitat on the outer urban areas of Perth, despite the absence of verified records due to the requirement for adult male specimens to obtain a species level identification. The species has a High likelihood of occurring within the PDE.

3.6.1 Insecta: Lepidoptera

***Synemon gratiosa* – Priority 4**

Graceful Sun-moths (GSM) are diurnal, and active on warm bright sunny days with low wind. GSM are generally restricted to the SCP but has also been recorded from the Geraldton sandplains and is known from 49 locations (Bishop *et al.* 2010). Extensive survey and genetic work undertaken throughout the SCP between 2010 – 2013 eventually saw their removal from the previous Wildlife Conservation Act Schedule 1 category and the EPBC fauna list, however due to their limited

distribution, small populations and rarity in nature the GSM is listed on the DBCA Priority fauna listing (Priority 4).

Habitat for the moth, *Lomandra hermaphrodita* is absent from the PDE (AECOM 2024, SLR 2025), and the species is considered to have a Low likelihood of occurring within the PDE as a vagrant species, and this would not be considered core habitat for the GSM.

3.6.2 Insecta: Hymenoptera

***Hylaeus globuliferus* – Priority 3**

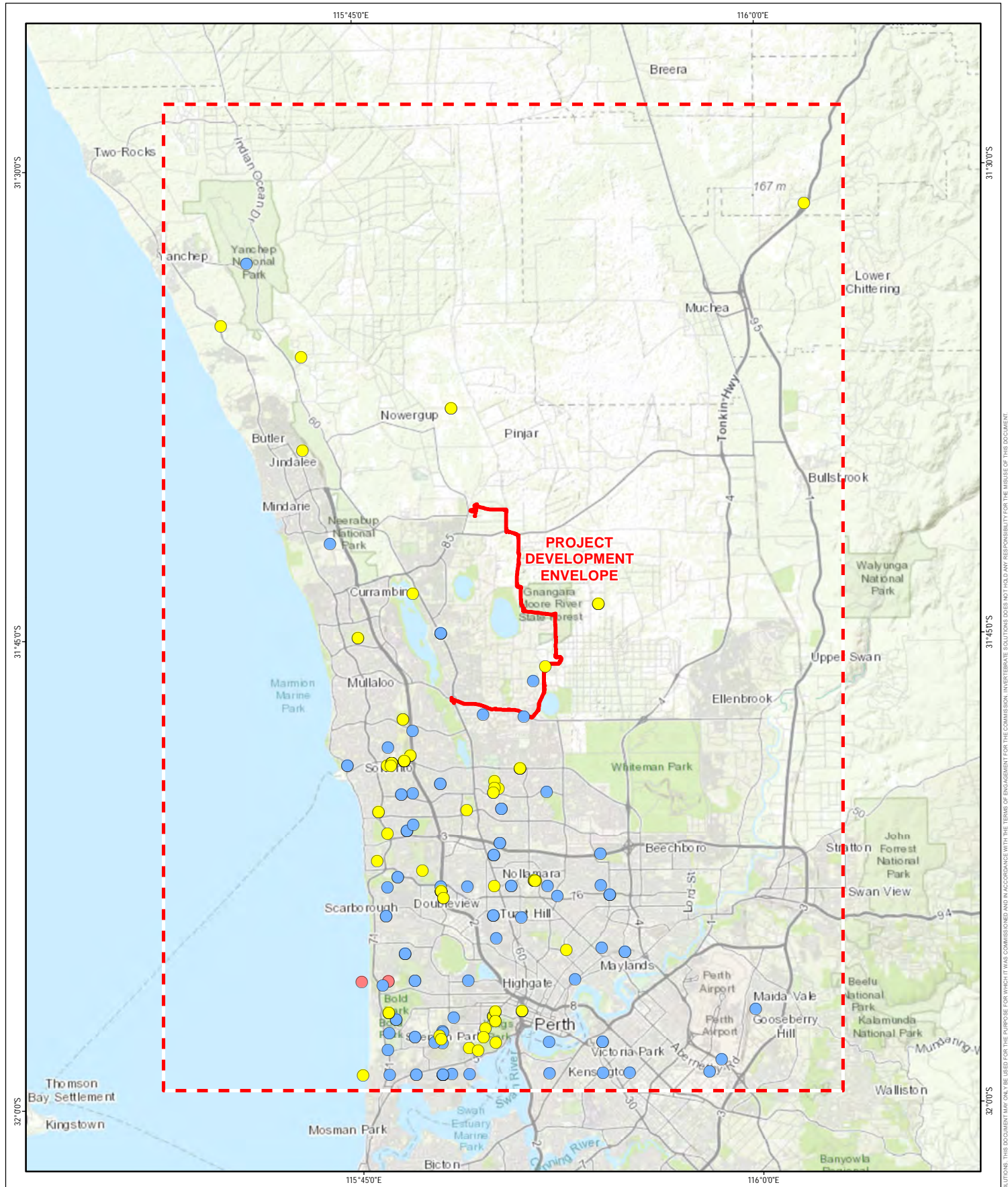
This native bee has a wide distribution in Western Australia from north of Eneabba, through the southern Wheatbelt and the SCP, and east along the south coast to the Fitzgerald National Park (ALA 2018). Most records from the SCP are historical in nature, although a single specimen was recorded at Wireless Hill in the suburb of Ardross in 2017 (Prendergast 2020). *Hylaeus globuliferus* is known to be associated with *Adenanthos cygnorum* and *Banksia attenuata* amongst other native plants (Houston 2018) both of which are present within the PDE (AECOM 2024, SLR 2025). It is therefore considered to have a High likelihood of occurrence.

***Leioproctus (Glossurocolletes) bilobatus* – Priority 1**

The native bee *Leioproctus (Glossurocolletes) bilobatus*, is associated with Jarrah/Wandoo Forest nominally to the east of the Swan Coastal Plain (Houston 2018), and the species has a distribution from as far east as Christmas Tree Well off Brookton Highway and on the South Coast within the Stirling Ranges (Phoenix 2010). *Leioproctus (Glossurocolletes) bilobatus* has so far been collected solely from the yellow flowering pea, *Gompholobium aristatum* that is absent from the PDE (AECOM 2024, SLR 2025). It is therefore a Low likelihood that *Leioproctus (Glossurocolletes) bilobatus* is present within the PDE.

***Leioproctus contrarius* – Priority 3**

The native bee *Leioproctus contrarius* is known to be associated with both *Scaevola sp repens* var. *repens* and *Lechenaultia* spp. of which both are known to occur within the PDE (AECOM 2024, SLR 2025, Houston 2000). It is therefore a Moderate likelihood that *Leioproctus contrarius* is present within the PDE.

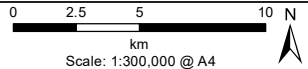


Legend

- Desktop Study Area
- Project Development Envelope

Confirmed SRE taxa WAM Records

- Diplopoda: Paradoxosomatidae: *Antichiropus whistleri*
- Gastropoda: Succineidae: *Succinea contenta*
- Mygalomorphae: Idiopidae: *Idiosoma sigillatum*



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-NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS

HORIZONTAL DATUM & PROJECTION GDA2020 MGA Zone 50	DATE 17/02/2026
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LOCALITY MAP

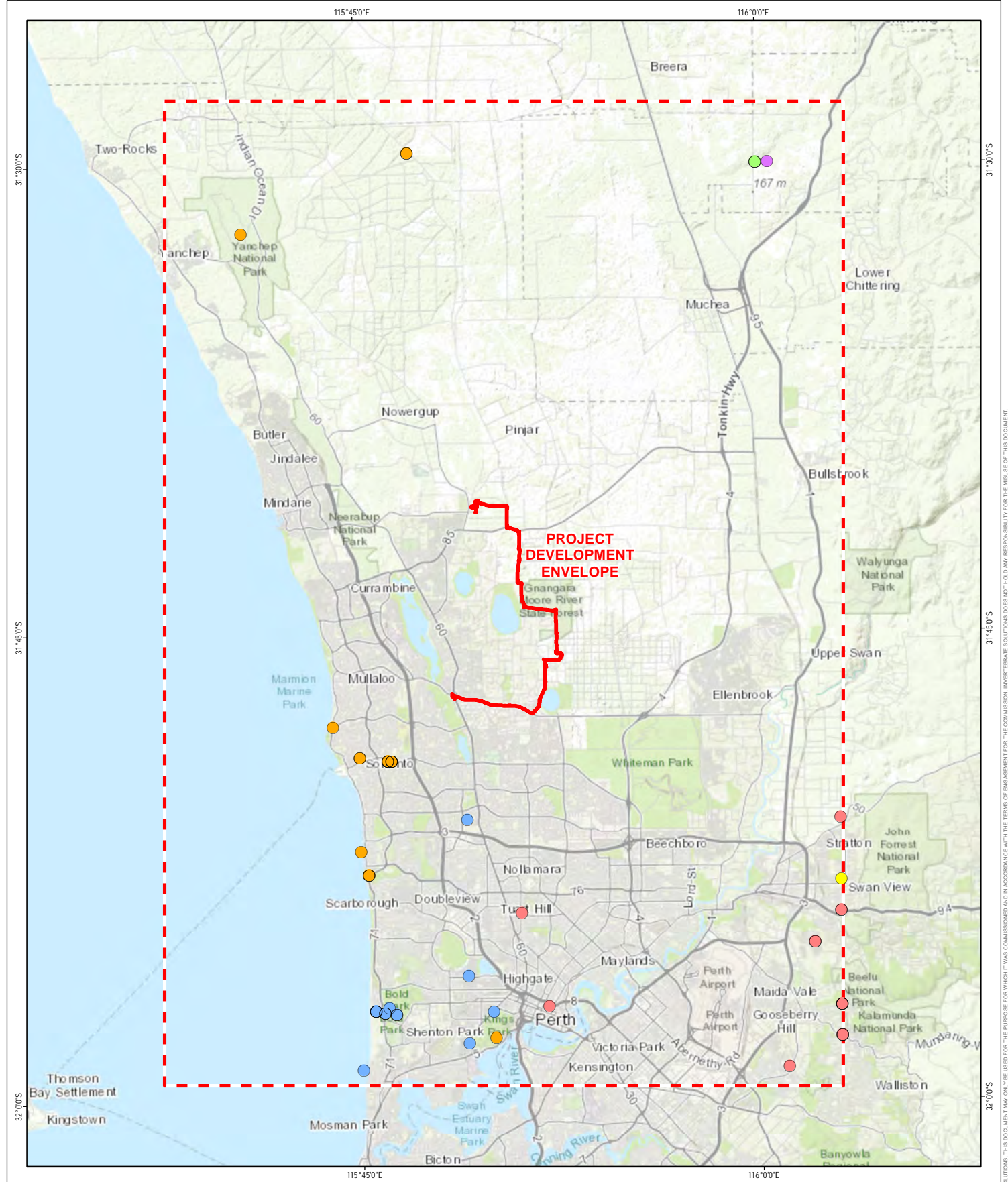


PROJECT
NBT-WGA 132kv Line

CREATED ENVIROMAPS	CHECKED TM	APPROVED TM	REVISION 0
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Western Power

Figure 3
Confirmed SRE taxa
WAM Records



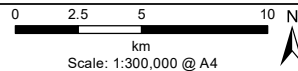
Legend

Desktop Study Area

Project Development Envelope

Confirmed SRE taxa WAM Records

- Diplopoda: *Dinocambala ingens*
- Isopoda: Armadillidae: *Buddelundia cinerascens*
- Isopoda: Armadillidae: *Buddelundia opaca*
- Mygalomorphae: Barychelidae: *Synothele lowei*
- Mygalomorphae: Barychelidae: *Synothele michaelseni*
- Mygalomorphae: Barychelidae: *Synothele taurus*



-NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS

LOCALITY MAP



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Figure 4
Likely SRE taxa WAM Records

3.5 Conservation Significant Invertebrates Listed under the EPBC Act

The PMST results listed two conservation significant invertebrate species within 20 km of the PDE. The two species that have potential modelled habitat within the PDE are:

- *Hesperocolletes douglasi* – Critically Endangered (in feature area)
- *Leioproctus douglasiellus* – Critically Endangered (in buffer area only)

Of these species of native bee, only *Hesperocolletes douglasi* is considered likely to occur within the PDE based upon the floristic data available (AECOM 2024, SLR 2025) and using DCCEEW modelling (DCCEEW 2022).

3.1.1 Native Bee *Hesperocolletes douglasi*

The enigmatic native bee species *Hesperocolletes douglasi* (Plate 4), was previously known only from Rottnest Island where it was presumed extinct until 2015 when an extant specimen was recorded from near Pinjar (less than 10 km from the PDE) on the northern Swan Coastal Plain (SCP) during a general insect research project (Houston 2018, WA Government, 2018). Very little is known of this species and floristic associations are still being determined with the currently known list including *Philothea spicata*, *Patersonia occidentalis*, two species of *Stylidium*, a species of *Scaevola* and species from Fabaceae and Myrtaceae. Many of these floristic species occur within or adjacent to the PDE (AECOM 2024, SLR 2025), so combined with the DCCEEW distribution modelling (Potential habitat occurring within the PDE, Plate 5), *Hesperocolletes douglasi* is considered to have a High likelihood of occurrence.



Plate 4 Adult of *Hesperocolletes douglasi* in lateral and dorsal views (photos by T Houston Western Australian Museum, 2014).

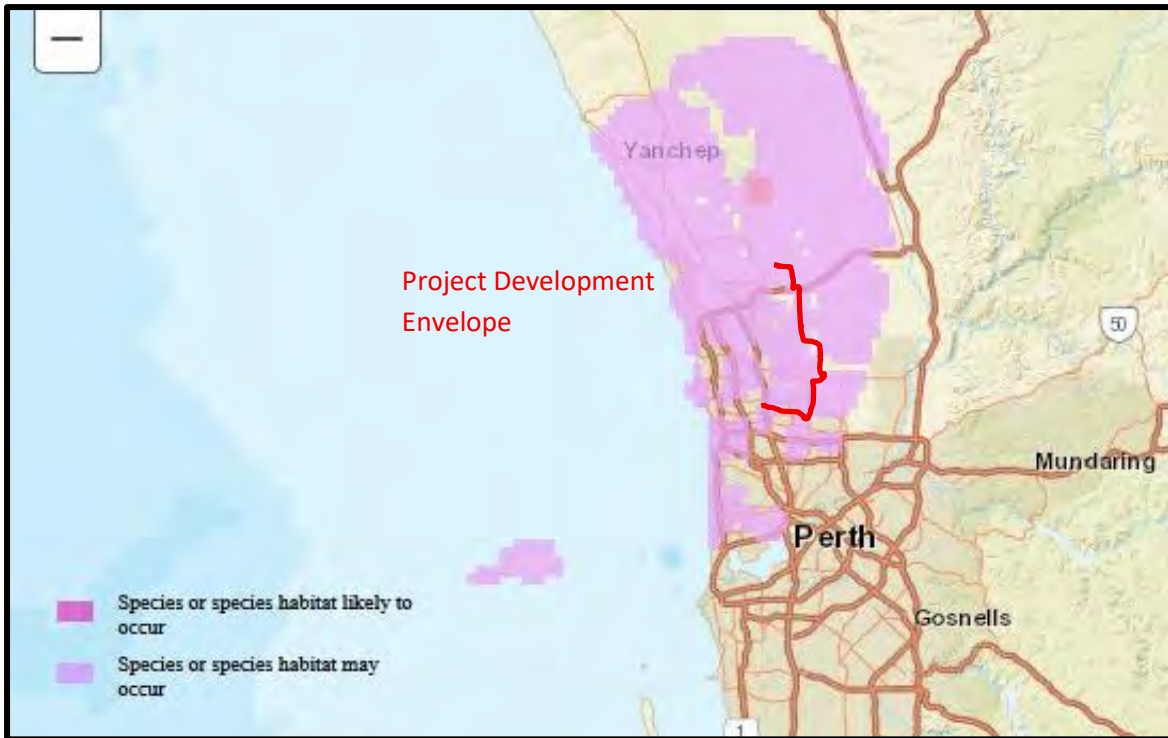


Plate 5 Local Swan Coastal Plain distribution likelihood modelling of *Hesperocolletes douglasi* (After DCCEEW 2022) and approximate position of PDE in red.

3.1.2 Native Bee *Leioproctus douglasiellus*

The native bee species *Leioproctus douglasiellus* (Plate 6), is known from the SCP where it has been recorded from Brixton Street wetlands, Cannington and Forrestdale Lake and near Lithgow in the Blue Mountains of NSW (ALA 2024a). The bee is associated with *Goodenia filiformis* and *Anthotium junctiforme* (Cardno 2005, Houston 2018, Houston 2000), which are not known to occur within the vicinity of the PDE (AECOM 2024, SLR 2025). *Leioproctus douglasiellus* has a modelled distribution within 6 km to the east of the PDE (DCCEEW modelled distribution areas Plate 7), however, the absence of suitable habitat, indicates that *Leioproctus douglasiellus* has a Low likelihood of occurring within the PDE.



Plate 6 Adult of *Leioproctus douglasiellus* in lateral and dorsal views (photos by Michael Batley Australian Museum, PaDIL 2022a)

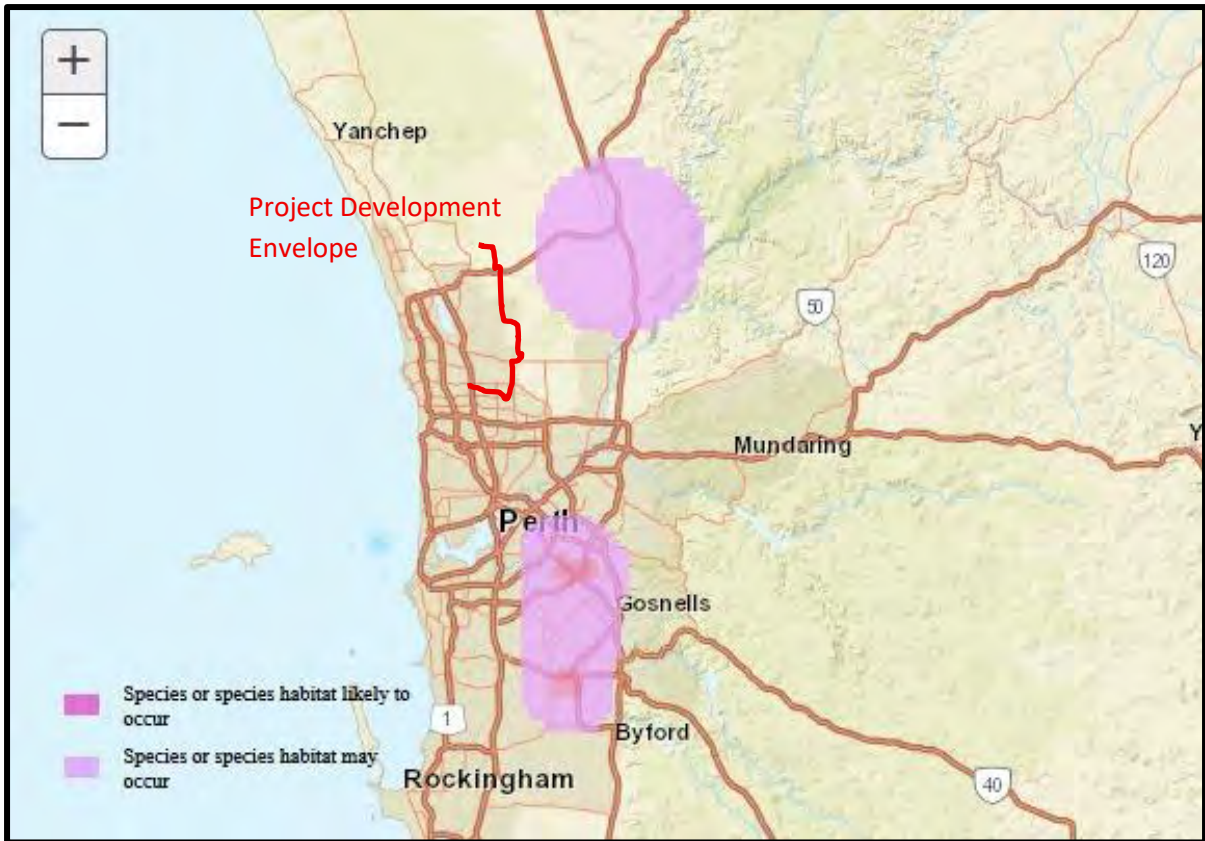


Plate 7 Local Swan Coastal Plain distribution likelihood modelling of *Leioproctus douglasiellus* (After DCCEEW 2022) and approximate position of PDE in red.

4. Discussion

Three conservation significant native bees identified during the desktop assessment have potential habitat within the PDE based upon the known preferences for each species:

- *Hesperocolletes douglasi* (BC Act Critically Endangered, EPBC Act Critically Endangered) – High Likelihood; floristic associations include *Philothea spicata*, *Patersonia occidentalis*, two species of *Stylidium*, a species of *Scaevola* and species from Fabaceae and Myrtaceae that may be present within fauna habitats: *Adenanthos*/ Plantation; *Banksia* Woodland; Mixed shrubland; *Melaleuca* woodland; Trees over cleared.
- *Hylaeus globuliferus* (DBCA Priority 3) – High Likelihood; floristic associations include includes *Adenanthos cygnorum* and *Banksia attenuate* that may be present within fauna habitats: *Adenanthos*/ Plantation; *Banksia* Woodland; Trees over cleared.
- *Leioproctus contrarius* (DBCA Priority 3) – Moderate Likelihood; floristic associations include *Scaevola sp repens* var. *repens* and *Lechenaultia* spp. that may be present within fauna habitats: Trees over cleared.

Two Confirmed SRE species (*Antichiropus whistleri*) and identified during the desktop search had a High Likelihood of occurring within the PDE due to their known distributions and habitat associations:

- *Antichiropus whistleri* – High Likelihood; habitat includes *Adenanthos*/ Plantation; *Banksia* Woodland; Mixed shrubland; *Melaleuca* woodland, adjacent records to the PDE.
- *Idiosoma sigillatum* (DBCA Priority 3) – High Likelihood; habitat includes *Banksia* Woodland; Mixed shrubland; Trees over cleared, adjacent records to the PDE.

Habitat for the above SRE and conservation significant invertebrate appears to extend laterally into adjacent intact vegetation, based upon aerial imagery. Larger tracts of remnant vegetation provide superior habitat for SRE and conservation significant invertebrates, compared to narrow strips of native vegetation that are subject to edge effects such as weed incursions. The narrow fringing habitats that are within the PDE are of generally lower quality compared with adjacent larger tracts of native vegetation and therefore have lower ecological value for species

No surveys for SRE or conservation significant invertebrates using specific techniques to detect the presence of potential SRE or conservation significant invertebrate species have been undertaken within the PDE. Preservation of existing habitat within the PDE is the optimal method to minimise impacts to both SRE and conservation significant invertebrate species as other mitigation methods, such as translocation are largely unviable for invertebrates.

5. Conclusions

A desktop survey was undertaken for both SRE and conservation significant Invertebrates to determine the likelihood of occurrence of individual invertebrate species within the PDE.

The Desktop Study Area contains three Confirmed SRE species (one land snail, one mygalomorph spider, and one millipede), and seven Likely SRE species (three slaters, three mygalomorph spiders, and one millipede). The remaining species identified from desktop resources were found to be widespread.

Of these confirmed and likely SRE species occurring within the Desktop Study area, two Confirmed SRE species, the milliped *Antichiropus whistleri*, and the mygalomorph spider *Idiosoma sigillatum* identified during the desktop search had a High Likelihood of occurring within the remnant vegetation located in the PDE.

An additional seven conservation significant invertebrates (widespread, non-SRE species) were identified in the desktop assessment. Of these seven conservation significant species, three native bees have potential habitat within the PDE. *Hesperocolletes douglasi* (BC Act - CR, EPBC Act - CR) and, *Hylaeus globuliferus* (DBCA, P3) have a high likelihood of occurrence and *Leioproctus contrarius* (DBCA P3) has a Moderate likelihood of occurrence within the PDE.

The current PDE concept includes the retention of the most remnant vegetation patches, that provide the only suitable habitat within the PDE for SRE and conservation significant invertebrates.

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Appendix 1

DBCA Conservation Categories

CONSERVATION CATEGORY DEFINITIONS

For Western Australian Fauna and Flora

Threatened, Extinct and Specially Protected fauna or flora¹ are species² which have been adequately searched for and are deemed to be, in the wild, threatened, extinct or in need of special protection, and have been gazetted as such.

Categories of Threatened, Extinct and Specially Protected fauna and flora are:

T Threatened species

Listed by order of the Minister as Threatened in the category of critically endangered, endangered or vulnerable under section 19(1), or is a rediscovered species to be regarded as threatened species under section 26(2) of the *Biodiversity Conservation Act 2016* (BC Act).

Threatened fauna is the species of fauna that are listed as critically endangered, endangered or vulnerable threatened species.

Threatened flora is the species of flora that are listed as critically endangered, endangered or vulnerable threatened species.

The assessment of the conservation status of threatened species is in accordance with the BC Act listing criteria and the requirements of [Ministerial Guideline Number 1](#) and [Ministerial Guideline Number 2](#) that adopts the use of the International Union for Conservation of Nature (IUCN) [Red List of Threatened Species Categories and Criteria](#)³, and is based on the national distribution of the species.

CR **Critically endangered species**

Threatened species considered to be “*facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines*”.

Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines.

Examples of use:

- The western ringtail possum (*Pseudocheirus occidentalis*) is listed as a critically endangered threatened species under the *Biodiversity Conservation Act 2016*.
- Western ringtail possum is listed as critically endangered under the *Biodiversity Conservation Act 2016*.
- Listing reference in a table: column heading: BC Act, row text: CR.

EN **Endangered species**

Threatened species considered to be “*facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines*”.

Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines.

Examples of use:

- *Caladenia hopperiana* is listed as an endangered threatened species under the *Biodiversity Conservation Act 2016*.
- *Caladenia hopperiana* is listed as endangered under the *Biodiversity Conservation Act 2016*.
- Listing reference in a table: column heading: BC Act, row text: EN.

VU Vulnerable species

Threatened species considered to be “facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with criteria set out in the ministerial guidelines”.

Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines.

Examples of use:

- The forest red-tailed black cockatoo (*Calyptorhynchus banksii naso*) is listed as a vulnerable threatened species under the *Biodiversity Conservation Act 2016*.
- Forest red-tailed black cockatoo is listed as vulnerable under the *Biodiversity Conservation Act 2016*.
- Listing reference in a table: column heading: BC Act, row text: VU.

Extinct species

Listed by order of the Minister as extinct under section 23(1) of the BC Act as extinct or extinct in the wild.

EX Extinct species

Species where “there is no reasonable doubt that the last member of the species has died”, and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).

Examples of use:

- *Acacia kingiana* is listed as an extinct species under the *Biodiversity Conservation Act 2016*.
- *Acacia kingiana* is listed as extinct under the *Biodiversity Conservation Act 2016*.
- Listing reference in a table: column heading: BC Act, row text: EX.

EW Extinct in the wild species

Species that “is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form”, and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).

Currently there are no fauna or flora species listed as extinct in the wild.

SP Specially protected species

Listed by order of the Minister as specially protected under section 13(1) of the BC Act. Meeting one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection.

Species that are listed as threatened species (critically endangered, endangered, or vulnerable) or extinct species under the BC Act cannot also be listed as specially protected species.

MI Migratory species

Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).

Migratory species include birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA)⁴, China (CAMBA)⁵ or The Republic of Korea (ROKAMBA)⁶, and fauna subject to the *Convention on the Conservation of Migratory Species of Wild Animals* (Bonn Convention)⁷, an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.

Examples of use:

- The wedge-tailed shearwater (*Ardenna pacifica*) is listed as a specially protected migratory species under the *Biodiversity Conservation Act 2016*.
- Wedge-tailed shearwater is listed as migratory under the *Biodiversity Conservation Act 2016*.
- Listing reference in a table: column heading: BC Act, row text: MI.

CD Species of special conservation interest (conservation dependent)

Species of special conservation need that are dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened, and listing is otherwise in accordance with the ministerial guidelines (section 14 of the BC Act).

Currently only fauna are listed as species of special conservation interest.

Examples of use:

- The wambenger, south-western brush-tailed phascogale (*Phascogale tapoatafa wambenger*) is listed as a specially protected species of special conservation interest under the *Biodiversity Conservation Act 2016*.
- Wambenger, south-western brush-tailed phascogale, is listed as conservation dependent under the *Biodiversity Conservation Act 2016*.
- Listing reference in a table: column heading: BC Act, row text: CD.

OS Species otherwise in need of special protection (other specially protected)

Species otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act).

Currently only fauna are listed as species otherwise in need of special protection.

Examples of use:

- The dugong (*Dugong dugon*) is listed as a specially protected species otherwise in need of special protection under the *Biodiversity Conservation Act 2016*.
- Dugon is listed as other specially protected fauna under the *Biodiversity Conservation Act 2016*.
- Listing reference in a table: column heading: BC Act, row text: OS.

P Priority species

Priority is not a listing category under the BC Act. The Priority Flora and Fauna lists are maintained by the department and are published on the department's website.

All fauna and flora are protected in WA following the provisions in Part 10 of the BC Act. The protection applies even when a species is not listed as threatened or specially protected, and regardless of land tenure (State managed land (Crown land), private land, or Commonwealth land).

Species that may possibly be threatened species that do not meet the criteria for listing under the BC Act because of insufficient survey or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of prioritisation for survey and evaluation of conservation status so that consideration can be given to potential listing as threatened.

Species that are adequately known, meet criteria for near threatened, or are rare but not threatened, or that have been recently removed from the threatened species list or conservation dependent or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

Assessment of priority status is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

1 Priority 1: Poorly-known species - known from few locations, none on conservation lands

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, for example, agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation.

Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements for threatened listing and appear to be under immediate threat from known threatening processes. These species are in urgent need of further survey.

Examples of use:

- *Borya stenophylla* is listed as a Priority 1 species by the Department of Biodiversity, Conservation and Attractions.
- *Borya stenophylla* is listed as Priority 1 on the DBCA Priority Flora List.
- Listing reference in a table: column heading: DBCA, row text: P1.

2 Priority 2: Poorly-known species - known from few locations, some on conservation lands

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, for example, national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation.

Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements for threatened listing and appear to be under threat from known threatening processes. These species are in urgent need of further survey.

Examples of use:

- *Caladenia nivalis* is listed as a Priority 2 species by the Department of Biodiversity, Conservation and Attractions.
- *Caladenia nivalis* is listed as Priority 2 on the DBCA Priority Flora List.
- Listing reference in a table: column heading: DBCA, row text: P2.

3 Priority 3: Poorly-known species - known from several locations

Species that are known from several locations and the species does not appear to be under imminent threat or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat.

Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. These species need further survey.

Examples of use:

- *Acacia nitidula* is listed as a Priority 3 species by the Department of Biodiversity, Conservation and Attractions.
- *Acacia nitidula* is listed as Priority 3 on the DBCA Priority Flora List.
- Listing reference in a table: column heading: DBCA, row text: P3.

4 Priority 4: Rare, Near Threatened and other species in need of monitoring

(a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands.

(b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as a conservation dependent specially protected species.

(c) Species that have been removed from the list of threatened species or lists of conservation dependent or other specially protected species, during the past five years for reasons other than taxonomy.

(d) Other species in need of monitoring.

Examples of use:

- *Banksia aculeata* is listed as a Priority 4 species by the Department of Biodiversity, Conservation and Attractions.
- *Banksia aculeata* is listed as Priority 4 on the DBCA Priority Flora List.
- Listing reference in a table: column heading: DBCA, row text: P4.

¹ The definition of flora includes algae, fungi, and lichens.

² Species includes all taxa (plural of taxon - a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies or variety, or a distinct population).

³ Western Australia has assigned species to threat categories using the *IUCN Red List of Threatened Species Categories and Criteria* since 1996 (referencing all criteria).

⁴ JAMBA - first included in the WA migratory species list in 1980.

⁵ CAMBA - first included in the WA migratory species list in 2010.

⁶ ROKAMBA - first included in the WA migratory species list in 2010.

⁷ Bonn Convention (Birds) - first included in the WA migratory species list in 2015.

Appendix 2

Protected Matters Search Tool results



Australian Government

Department of Climate Change, Energy,
the Environment and Water

EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 10-Feb-2026

[Summary](#)

[Details](#)

[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

Summary

Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar)	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	1
Listed Threatened Ecological Communities:	13
Listed Threatened Species:	96
Listed Migratory Species:	69

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Lands:	307
Commonwealth Heritage Places:	4
Listed Marine Species:	102
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	2
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	50
Regional Forest Agreements:	1
Nationally Important Wetlands:	None
EPBC Act Referrals:	173
Key Ecological Features (Marine):	2
Biologically Important Areas:	11
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Commonwealth Marine Area

[\[Resource Information \]](#)

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside a Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area.

Feature Name

Buffer Status

Commonwealth Marine Areas (EPBC Act)

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

[Aquatic Root Mat Community in Caves of the Swan Coastal Plain](#)

Endangered

Community known to occur within area

In buffer area only

[Assemblages of plants and invertebrate animals of tumulus \(organic mound\) springs of the Swan Coastal Plain](#)

Endangered

Community known to occur within area

In buffer area only

[Banksia Woodlands of the Swan Coastal Plain ecological community](#)

Endangered

Community likely to occur within area

In feature area

[Clay Pans of the Swan Coastal Plain](#)

Critically Endangered

Community likely to occur within area

In buffer area only

[Corymbia calophylla - Kingia australis woodlands on heavy soils of the Swan Coastal Plain](#)

Endangered

Community known to occur within area

In buffer area only

[Corymbia calophylla - Xanthorrhoea preissii woodlands and shrublands of the Swan Coastal Plain](#)

Endangered

Community known to occur within area

In buffer area only

[Empodisma peatlands of southwestern Australia](#)

Endangered

Community may occur within area

In feature area

[Honey Myrtle shrubland on limestone ridges of the Swan Coastal Plain Bioregion](#)

Critically Endangered

Community likely to occur within area

In feature area

[Sedgeland in Holocene dune swales of the southern Swan Coastal Plain](#)

Endangered

Community known to occur within area

In buffer area only

Community Name	Threatened Category	Presence Text	Buffer Status
Shrublands and Woodlands of the eastern Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Shrublands and Woodlands on Muccha Limestone of the Swan Coastal Plain	Endangered	Community known to occur within area	In buffer area only
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area	In buffer area only
Tuart (<i>Eucalyptus gomphocephala</i>) Woodlands and Forests of the Swan Coastal Plain ecological community	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			
Anous tenuirostris melanops Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Ardenna grisea Sooty Shearwater [82651]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Roosting known to occur within area	In buffer area only
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Roosting known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris tenuirostris Great Knot [862]	Vulnerable	Roosting known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Leipoa ocellata Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Endangered	Species or species habitat known to occur within area	In buffer area only
Limosa limosa Black-tailed Godwit [845]	Endangered	Roosting known to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Phaethon rubricauda westralis Red-tailed Tropicbird (Indian Ocean), Indian Ocean Red-tailed Tropicbird [91824]	Endangered	Species or species habitat may occur within area	In buffer area only
Phoebastria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pluvialis squatarola Grey Plover [865]	Vulnerable	Roosting known to occur within area	In buffer area only
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area	In feature area
Sternula albifrons Little Tern [82849]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area	In feature area
Xenus cinereus Terek Sandpiper [59300]	Vulnerable	Roosting known to occur within area	In buffer area only
Zanda baudinii listed as Calyptorhynchus baudinii Baudin's Cockatoo, Baudin's Black-Cockatoo, Long-billed Black-cockatoo [87736]	Endangered	Roosting known to occur within area	In buffer area only
Zanda latirostris listed as Calyptorhynchus latirostris Carnaby's Black Cockatoo, Short-billed Black-cockatoo [87737]	Endangered	Breeding known to occur within area	In feature area
FISH			
Galaxiella nigrostriata Blackstriped Dwarf Galaxias, Black-stripe Minnow [88677]	Endangered	Species or species habitat known to occur within area	In feature area
INSECT			
Hesperocolletes douglasi Douglas' Broad-headed Bee, Rottnest Bee [66734]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Leioproctus douglasiellus a short-tongued bee [66756]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
MAMMAL			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Bettongia penicillata ogilbyi Woylie [66844]	Endangered	Species or species habitat known to occur within area	In feature area
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area	In feature area
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding known to occur within area	In buffer area only
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Petrogale lateralis lateralis Black-flanked Rock-wallaby, Moororong, Black-footed Rock Wallaby [66647]	Endangered	Translocated population known to occur within area	In buffer area only
Pseudocheirus occidentalis Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat likely to occur within area	In buffer area only
OTHER			
Westralunio carteri Carter's Freshwater Mussel, Ambiguous Mussel [86266]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
PLANT			
Acacia anomala Grass Wattle, Chittering Grass Wattle [8153]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Acacia aphylla Leafless Rock Wattle [13553]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Anigozanthos viridis subsp. terraspectans Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Anthocercis gracilis Slender Tailflower [11103]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Banksia mimica Summer Honeypot [82765]	Endangered	Species or species habitat likely to occur within area	In feature area
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat known to occur within area	In feature area
Caleana dixonii listed as Paracaleana dixonii Sandplain Duck Orchid [87944]	Endangered	Species or species habitat may occur within area	In feature area
Calytrix breviseta subsp. breviseta Swamp Starflower [23879]	Endangered	Species or species habitat may occur within area	In buffer area only
Chamelaucium lullfitzii listed as Chamelaucium sp. Gingin (N.G.Marchant 6) Gingin Wax [92777]	Endangered (listed as Chamelaucium sp. Gingin)	Species or species habitat likely to occur within area	In buffer area only
Conospermum densiflorum subsp. unicephalatum One-headed Smokebush [64871]	Endangered	Species or species habitat may occur within area	In buffer area only
Conospermum undulatum Wavy-leaved Smokebush [24435]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Darwinia foetida Mucheas Bell [83190]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
Diplolaena andrewsii [6601]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Diuris drummondii Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Diuris purdiei Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area	In feature area
Drakaea elastica Glossy-leafed Hammer Orchid, Glossy-leafed Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area	In feature area
Drakaea micrantha Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Eleocharis keigheryi Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat known to occur within area	In feature area
Eremophila glabra subsp. chlorella [84927]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Eucalyptus argutifolia Yanchep Mallee, Wabbling Hill Mallee [24263]	Vulnerable	Species or species habitat known to occur within area	In feature area
Eucalyptus leprophloia Scaly Butt Mallee, Scaly-butt Mallee [56712]	Endangered	Species or species habitat may occur within area	In buffer area only
Eucalyptus x balanites Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat may occur within area	In buffer area only
Grevillea althoferorum [64906]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Grevillea christineae Christine's Grevillea [64520]	Endangered	Species or species habitat known to occur within area	In buffer area only
Grevillea curviloba subsp. curviloba Curved-leaf Grevillea [64908]	Endangered	Species or species habitat known to occur within area	In buffer area only
Grevillea curviloba subsp. incurva Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat known to occur within area	In feature area
Grevillea flexuosa Zig Zag Grevillea [2957]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Macarthuria keigheryi Keighery's Macarthuria [64930]	Endangered	Species or species habitat known to occur within area	In feature area
Marianthus paralius [83925]	Endangered	Species or species habitat known to occur within area	In buffer area only
Melaleuca sp. Wanneroo (G.J. Keighery 16705) [89456]	Endangered	Species or species habitat known to occur within area	In buffer area only
Morelotia australiensis listed as Tetraria australiensis Southern Tetraria [92784]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Synaphea sp. Fairbridge Farm (D.Papenfus 696) Selena's Synaphea [82881]	Critically Endangered	Species or species habitat likely to occur within area	In buffer area only
Thelymitra dedmaniarum Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat likely to occur within area	In feature area
Thelymitra stellata Star Sun-orchid [7060]	Endangered	Species or species habitat likely to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Trithuria occidentalis Swan Hydatella [42224]	Endangered	Species or species habitat likely to occur within area	In buffer area only
REPTILE			
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Pseudemydura umbrina Western Swamp Tortoise [1760]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
SHARK			
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pristis pristis Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Endangered	Species or species habitat may occur within area	In feature area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only
Listed Migratory Species [Resource Information]			
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Anous stolidus Common Noddy [825]		Species or species habitat likely to occur within area	In buffer area only
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Ardena carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Ardena grisea Sooty Shearwater [82651]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Hydroprogne caspia Caspian Tern [808]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Onychoprion anaethetus Bridled Tern [82845]		Breeding known to occur within area	In buffer area only
Phaethon rubricauda Red-tailed Tropicbird [994]		Species or species habitat may occur within area	In buffer area only
Phoebastria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Sternula albifrons Little Tern [82849]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Migratory Marine Species

Scientific Name	Threatened Category	Presence Text	Buffer Status
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area	In buffer area only
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In buffer area only
Carcharias taurus Grey Nurse Shark [64469]		Species or species habitat likely to occur within area	In buffer area only
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Eubalaena australis as Balaena glacialis australis Southern Right Whale [40]	Endangered	Breeding known to occur within area	In buffer area only
Lamna nasus Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Megaptera novaeangliae Humpback Whale [38]		Species or species habitat known to occur within area	In buffer area only
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat may occur within area	In buffer area only
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Pristis pristis Largetooth Sawfish, Freshwater Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Endangered	Species or species habitat may occur within area	In feature area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Migratory Terrestrial Species			
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Roosting known to occur within area	In buffer area only
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris alba Sanderling [875]		Roosting known to occur within area	In buffer area only
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area	In feature area
Calidris subminuta Long-toed Stint [861]		Species or species habitat known to occur within area	In feature area
Calidris tenuirostris Great Knot [862]	Vulnerable	Roosting known to occur within area	In buffer area only
Charadrius bicinctus Double-banded Plover [895]		Roosting known to occur within area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In buffer area only
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area	In buffer area only
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area	In buffer area only
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Limosa limosa Black-tailed Godwit [845]	Endangered	Roosting known to occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area	In buffer area only
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area
Phalaropus lobatus Red-necked Phalarope [838]		Roosting known to occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area	In buffer area only
Pluvialis squatarola Grey Plover [865]	Vulnerable	Roosting known to occur within area	In buffer area only
Tringa brevipes Grey-tailed Tattler [851]		Roosting known to occur within area	In buffer area only
Tringa glareola Wood Sandpiper [829]		Species or species habitat known to occur within area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area	In buffer area only
Tringa totanus Common Redshank, Redshank [835]		Roosting known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Xenus cinereus Terek Sandpiper [59300]	Vulnerable	Roosting known to occur within area	In buffer area only

Other Matters Protected by the EPBC Act

Commonwealth Lands [\[Resource Information \]](#)

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

Commonwealth Land Name	State	Buffer Status
Airservices Australia		
Lot 41 D054263 [AGPR159]	WA	In buffer area only
Australian Broadcasting Corporation		
Lot 750 P024518 [AGPR211]	WA	In buffer area only
Australian Postal Corporation		
Lot 100 P006619 [AGPR7029]	WA	In buffer area only
Lot 110 P042539 [AGPR7274]	WA	In buffer area only
Lot 112 P015673 [AGPR7270]	WA	In buffer area only
Lot 114 P002916 [AGPR7115]	WA	In buffer area only
Lot 124 P004845 [AGPR7184]	WA	In buffer area only
Lot 17 P030330 [AGPR7344]	WA	In buffer area only
Lot 1 P000813 [AGPR7327]	WA	In buffer area only
Lot 9 P015884 [AGPR6977]	WA	In buffer area only
Lot F 65 [AGPR7066]	WA	In feature area
Commonwealth Scientific and Industrial Research Organisation		
CSIRO Floreat [AGPR351]	WA	In buffer area only
Department of Climate Change, Energy, the Environment and Water		
Army Magazine Buildings Irwin Barracks [CHL_105215]	WA	In buffer area only
Inglewood Post Office [CHL_106134]	WA	In buffer area only
Perth General Post Office [CHL_105527]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
South Perth Post Office [CHL_105370]	WA	In buffer area only
Victoria Park Post Office [CHL_106197]	WA	In buffer area only
Department of Defence		
AAC 500 Army Cadet Unit - Ellenbrook [DD_5046]	WA	In buffer area only
AAC 53 Army Cadet Unit - Wanneroo [DD_3367]	WA	In buffer area only
AAC 57 Army Cadet Unit - Merredin [DD_3363]	WA	In buffer area only
AAC 58 Army Cadet Unit - Carine [DD_3354]	WA	In buffer area only
AAC Guildford Grammar School [DD_3358]	WA	In buffer area only
AAFC 704 & 721 Squadrons - Madeley [DD_1473]	WA	In buffer area only
AAFC 723 Squadron - Joondalup [DD_1468]	WA	In buffer area only
ANC TS MARMION - Hillarys [DD_3371]	WA	In buffer area only
Beermullah ILS Outer Marker - Gingin [DD_1028]	WA	In buffer area only
Bullsbrook ILS Mid Marker North [DD_1026]	WA	In buffer area only
Bullsbrook ILS Mid Marker South [DD_1024]	WA	In buffer area only
Bullsbrook Obstruction Beacon No 3 [DD_1357]	WA	In buffer area only
Bullsbrook Obstruction Beacon No 5 [DD_1360]	WA	In buffer area only
Bullsbrook Operations Site AP5 [DD_0966]	WA	In buffer area only
Bullsbrook Pearce Bore Site AP8 [DD_0968]	WA	In buffer area only
Bullsbrook Training Area [AGPR007461]	WA	In buffer area only
Bullsbrook Training Area [AGPR007462]	WA	In buffer area only
Bullsbrook Training Area [AGPR007463]	WA	In buffer area only
Bullsbrook Training Area [AGPR007466]	WA	In buffer area only
Bullsbrook Training Area [AGPR007467]	WA	In buffer area only
Bullsbrook Training Area [DD_0965]	WA	In buffer area only
Bullsbrook Training Area [AGPR007468]	WA	In buffer area only
Bullsbrook Training Area [AGPR007469]	WA	In buffer area only
Bullsbrook Training Area [AGPR007464]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Bullsbrook Training Area [AGPR007465]	WA	In buffer area only
Bullsbrook Vacant Land, Gt Nth Hwy AP101 [DD_1405]	WA	In buffer area only
Bullsbrook Vacant Land Gt Nth Hwy AP102 [DD_1406]	WA	In buffer area only
Bullsbrook Water Corp Lease AP4 [DD_1363]	WA	In buffer area only
Bullsbrook Water Tank Site AP17 [DD_0969]	WA	In buffer area only
Bullsbrook Water Treatment Site AP15 [DD_1361]	WA	In buffer area only
Campbell Barracks [AGPR4473]	WA	In buffer area only
Campbell Barracks [AGPR4477]	WA	In buffer area only
Campbell Barracks [AGPR4481]	WA	In buffer area only
Campbell Barracks [AGPR4479]	WA	In buffer area only
Campbell Barracks [AGPR4478]	WA	In buffer area only
Campbell Barracks [AGPR4384]	WA	In buffer area only
Campbell Barracks [AGPR4480]	WA	In buffer area only
Campbell Barracks [AGPR4484]	WA	In buffer area only
Campbell Barracks - Swanbourne [DD_0767]	WA	In buffer area only
HMAS Stirling [AGPR4443]	WA	In buffer area only
HMAS Stirling [AGPR4442]	WA	In buffer area only
Irwin Barracks [AGPR4453]	WA	In buffer area only
Irwin Barracks [AGPR4454]	WA	In buffer area only
Irwin Barracks - Karrakatta [DD_0763]	WA	In buffer area only
Joint Cyber Security Centre - Perth [DD_0510]	WA	In buffer area only
Joondalup Training Depot [DD_1554]	WA	In buffer area only
Lot 1 Plan P010245 [AGPR4447]	WA	In buffer area only
Lot 3 Plan P010245 [AGPR4448]	WA	In buffer area only
Muchea Armament Range [DD_0964]	WA	In buffer area only
Muchea ILS Outer Marker North [DD_1465]	WA	In buffer area only
Palmer Barracks - South Guildford [DD_0766]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Perth Airport RAAF Terminal Control Unit [DD_1350]	WA	In buffer area only
Perth CWLTH Parliamentary Office BLDG [DD_5028]	WA	In buffer area only
RAAF base Pearce [AGPR4377]	WA	In buffer area only
RAAF base Pearce [AGPR4378]	WA	In buffer area only
RAAF base Pearce [AGPR4372]	WA	In buffer area only
RAAF base Pearce [AGPR4375]	WA	In buffer area only
RAAF base Pearce [AGPR4374]	WA	In buffer area only
RAAF base Pearce [AGPR4373]	WA	In buffer area only
RAAF base Pearce [AGPR4371]	WA	In buffer area only
RAAF base Pearce [AGPR4337]	WA	In buffer area only
RAAF base Pearce [AGPR4379]	WA	In buffer area only
RAAF base Pearce [AGPR4356]	WA	In buffer area only
RAAF base Pearce [AGPR4376]	WA	In buffer area only
RAAF base Pearce [AGPR4352]	WA	In buffer area only
RAAF base Pearce [AGPR4354]	WA	In buffer area only
RAAF base Pearce [AGPR4355]	WA	In buffer area only
RAAF base Pearce [AGPR4329]	WA	In buffer area only
RAAF base Pearce [AGPR4328]	WA	In buffer area only
RAAF base Pearce [AGPR4382]	WA	In buffer area only
RAAF base Pearce [AGPR4383]	WA	In buffer area only
RAAF base Pearce [AGPR4320]	WA	In buffer area only
RAAF base Pearce [AGPR4321]	WA	In buffer area only
RAAF base Pearce [AGPR4322]	WA	In buffer area only
RAAF base Pearce [AGPR4323]	WA	In buffer area only
RAAF base Pearce [AGPR4324]	WA	In buffer area only
RAAF base Pearce [AGPR4325]	WA	In buffer area only
RAAF base Pearce [AGPR4326]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
RAAF base Pearce [AGPR4327]	WA	In buffer area only
RAAF base Pearce [AGPR4346]	WA	In buffer area only
RAAF base Pearce [AGPR4348]	WA	In buffer area only
RAAF base Pearce [AGPR4345]	WA	In buffer area only
RAAF base Pearce [AGPR4380]	WA	In buffer area only
RAAF base Pearce [AGPR4340]	WA	In buffer area only
RAAF base Pearce [AGPR4342]	WA	In buffer area only
RAAF base Pearce [AGPR4343]	WA	In buffer area only
RAAF base Pearce [AGPR4347]	WA	In buffer area only
RAAF base Pearce [AGPR4338]	WA	In buffer area only
RAAF base Pearce [AGPR4303]	WA	In buffer area only
RAAF base Pearce [AGPR4302]	WA	In buffer area only
RAAF base Pearce [AGPR4301]	WA	In buffer area only
RAAF base Pearce [AGPR4304]	WA	In buffer area only
RAAF base Pearce [AGPR4309]	WA	In buffer area only
RAAF base Pearce [AGPR4305]	WA	In buffer area only
RAAF base Pearce [AGPR4353]	WA	In buffer area only
RAAF base Pearce [AGPR4333]	WA	In buffer area only
RAAF base Pearce [AGPR4330]	WA	In buffer area only
RAAF base Pearce [AGPR4331]	WA	In buffer area only
RAAF base Pearce [AGPR4334]	WA	In buffer area only
RAAF base Pearce [AGPR4335]	WA	In buffer area only
RAAF base Pearce [AGPR4336]	WA	In buffer area only
RAAF base Pearce [AGPR4339]	WA	In buffer area only
RAAF base Pearce [AGPR4310]	WA	In buffer area only
RAAF base Pearce [AGPR4312]	WA	In buffer area only
RAAF base Pearce [AGPR4313]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
RAAF base Pearce [AGPR4341]	WA	In buffer area only
RAAF base Pearce [AGPR4359]	WA	In buffer area only
RAAF base Pearce [AGPR4292]	WA	In buffer area only
RAAF base Pearce [AGPR4291]	WA	In buffer area only
RAAF base Pearce [AGPR4294]	WA	In buffer area only
RAAF base Pearce [AGPR4293]	WA	In buffer area only
RAAF base Pearce [AGPR4332]	WA	In buffer area only
RAAF base Pearce [AGPR4295]	WA	In buffer area only
RAAF base Pearce [AGPR4296]	WA	In buffer area only
RAAF base Pearce [AGPR4297]	WA	In buffer area only
RAAF base Pearce [AGPR4351]	WA	In buffer area only
RAAF base Pearce [AGPR4360]	WA	In buffer area only
RAAF base Pearce [AGPR4361]	WA	In buffer area only
RAAF base Pearce [AGPR4362]	WA	In buffer area only
RAAF base Pearce [AGPR4363]	WA	In buffer area only
RAAF base Pearce [AGPR4344]	WA	In buffer area only
RAAF base Pearce [AGPR4369]	WA	In buffer area only
RAAF base Pearce [AGPR4368]	WA	In buffer area only
RAAF base Pearce [AGPR4358]	WA	In buffer area only
RAAF base Pearce [AGPR4318]	WA	In buffer area only
RAAF base Pearce [AGPR4319]	WA	In buffer area only
RAAF base Pearce [AGPR4367]	WA	In buffer area only
RAAF base Pearce [AGPR4366]	WA	In buffer area only
RAAF base Pearce [AGPR4365]	WA	In buffer area only
RAAF base Pearce [AGPR4311]	WA	In buffer area only
RAAF base Pearce [AGPR4316]	WA	In buffer area only
RAAF base Pearce [AGPR4317]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
RAAF base Pearce [AGPR4314]	WA	In buffer area only
RAAF base Pearce [AGPR4315]	WA	In buffer area only
RAAF base Pearce [AGPR4298]	WA	In buffer area only
RAAF Pearce [DD_0967]	WA	In buffer area only
South Guildford RAAF [AGPR4385]	WA	In buffer area only
Swanbourne Rifle Range [AGPR4476]	WA	In buffer area only
Swanbourne Rifle Range [AGPR4483]	WA	In buffer area only
Swanbourne Rifle Range [AGPR4474]	WA	In buffer area only
Swanbourne Rifle Range [AGPR4482]	WA	In buffer area only
Swanbourne Rifle Ranges [DD_0768]	WA	In buffer area only
Upper Swan ILS Outer Marker South [DD_1025]	WA	In buffer area only
Department of Finance		
CLC - Perth Commonwealth Law Courts WA [AGPR4683]	WA	In buffer area only
Department of Home Affairs		
Lot 456 P004683 [AGPR4733]	WA	In buffer area only
Department of Infrastructure, Transport, Regional Development, Communications and the Arts		
Perth Airport [AGPR5566]	WA	In buffer area only
Perth Airport [AGPR5694]	WA	In buffer area only
Perth Airport [AGPR5560]	WA	In buffer area only
Perth Airport [AGPR5568]	WA	In buffer area only
Perth Airport [AGPR5565]	WA	In buffer area only
Perth Airport [AGPR5564]	WA	In buffer area only
Perth Airport [AGPR5563]	WA	In buffer area only
Perth Airport [AGPR5562]	WA	In buffer area only
Perth Airport [AGPR5631]	WA	In buffer area only
Perth Airport [AGPR5630]	WA	In buffer area only
Perth Airport [AGPR5549]	WA	In buffer area only
Perth Airport [AGPR5586]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Perth Airport [AGPR5548]	WA	In buffer area only
Perth Airport [AGPR5555]	WA	In buffer area only
Perth Airport [AGPR5589]	WA	In buffer area only
Perth Airport [AGPR5636]	WA	In buffer area only
Perth Airport [AGPR5637]	WA	In buffer area only
Perth Airport [AGPR5599]	WA	In buffer area only
Perth Airport [AGPR5540]	WA	In buffer area only
Perth Airport [AGPR5603]	WA	In buffer area only
Perth Airport [AGPR5542]	WA	In buffer area only
Perth Airport [AGPR5596]	WA	In buffer area only
Perth Airport [AGPR5553]	WA	In buffer area only
Perth Airport [AGPR5663]	WA	In buffer area only
Perth Airport [AGPR5642]	WA	In buffer area only
Perth Airport [AGPR5643]	WA	In buffer area only
Perth Airport [AGPR5569]	WA	In buffer area only
Perth Airport [AGPR5646]	WA	In buffer area only
Perth Airport [AGPR5647]	WA	In buffer area only
Perth Airport [AGPR5640]	WA	In buffer area only
Perth Airport [AGPR5641]	WA	In buffer area only
Perth Airport [AGPR5644]	WA	In buffer area only
Perth Airport [AGPR5645]	WA	In buffer area only
Perth Airport [AGPR5616]	WA	In buffer area only
Perth Airport [AGPR5617]	WA	In buffer area only
Perth Airport [AGPR5612]	WA	In buffer area only
Perth Airport [AGPR5613]	WA	In buffer area only
Perth Airport [AGPR5610]	WA	In buffer area only
Perth Airport [AGPR5611]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Perth Airport [AGPR5619]	WA	In buffer area only
Perth Airport [AGPR5618]	WA	In buffer area only
Perth Airport [AGPR5518]	WA	In buffer area only
Perth Airport [AGPR5519]	WA	In buffer area only
Perth Airport [AGPR5711]	WA	In buffer area only
Perth Airport [AGPR5550]	WA	In buffer area only
Perth Airport [AGPR5551]	WA	In buffer area only
Perth Airport [AGPR5559]	WA	In buffer area only
Perth Airport [AGPR5697]	WA	In buffer area only
Perth Airport [AGPR5696]	WA	In buffer area only
Perth Airport [AGPR5517]	WA	In buffer area only
Perth Airport [AGPR5639]	WA	In buffer area only
Perth Airport [AGPR5651]	WA	In buffer area only
Perth Airport [AGPR5650]	WA	In buffer area only
Perth Airport [AGPR5590]	WA	In buffer area only
Perth Airport [AGPR5632]	WA	In buffer area only
Perth Airport [AGPR5593]	WA	In buffer area only
Perth Airport [AGPR5594]	WA	In buffer area only
Perth Airport [AGPR5595]	WA	In buffer area only
Perth Airport [AGPR5600]	WA	In buffer area only
Perth Airport [AGPR5601]	WA	In buffer area only
Perth Airport [AGPR5602]	WA	In buffer area only
Perth Airport [AGPR5605]	WA	In buffer area only
Perth Airport [AGPR5606]	WA	In buffer area only
Perth Airport [AGPR5607]	WA	In buffer area only
Perth Airport [AGPR5685]	WA	In buffer area only
Perth Airport [AGPR5659]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Perth Airport [AGPR5684]	WA	In buffer area only
Perth Airport [AGPR5683]	WA	In buffer area only
Perth Airport [AGPR5653]	WA	In buffer area only
Perth Airport [AGPR5656]	WA	In buffer area only
Perth Airport [AGPR5657]	WA	In buffer area only
Perth Airport [AGPR5150]	WA	In buffer area only
Perth Airport [AGPR5652]	WA	In buffer area only
Perth Airport [AGPR5680]	WA	In buffer area only
Perth Airport [AGPR5681]	WA	In buffer area only
Perth Airport [AGPR5721]	WA	In buffer area only
Perth Airport [AGPR5720]	WA	In buffer area only
Perth Airport [AGPR5688]	WA	In buffer area only
Perth Airport [AGPR5598]	WA	In buffer area only
Perth Airport [AGPR5723]	WA	In buffer area only
Perth Airport [AGPR5724]	WA	In buffer area only
Perth Airport [AGPR5722]	WA	In buffer area only
Perth Airport [AGPR5588]	WA	In buffer area only
Perth Airport [AGPR5621]	WA	In buffer area only
Perth Airport [AGPR5705]	WA	In buffer area only
Perth Airport [AGPR5679]	WA	In buffer area only
Perth Airport [AGPR5608]	WA	In buffer area only
Perth Airport [AGPR5609]	WA	In buffer area only
Perth Airport [AGPR5669]	WA	In buffer area only
Perth Airport [AGPR5716]	WA	In buffer area only
Perth Airport [AGPR5719]	WA	In buffer area only
Perth Airport [AGPR5714]	WA	In buffer area only
Perth Airport [AGPR5717]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Perth Airport [AGPR5151]	WA	In buffer area only
Perth Airport [AGPR5718]	WA	In buffer area only
Perth Airport [AGPR5715]	WA	In buffer area only
Perth Airport [AGPR5713]	WA	In buffer area only
Perth Airport [AGPR5710]	WA	In buffer area only
Perth Airport [AGPR5623]	WA	In buffer area only
Perth Airport [AGPR5620]	WA	In buffer area only
Perth Airport [AGPR5662]	WA	In buffer area only
Perth Airport [AGPR5664]	WA	In buffer area only
Perth Airport [AGPR5665]	WA	In buffer area only
Perth Airport [AGPR5667]	WA	In buffer area only
Perth Airport [AGPR5668]	WA	In buffer area only
Perth Airport [AGPR5554]	WA	In buffer area only
Perth Airport [AGPR5604]	WA	In buffer area only
Perth Airport [AGPR5660]	WA	In buffer area only
Perth Airport [AGPR5624]	WA	In buffer area only
Perth Airport [AGPR5627]	WA	In buffer area only
Perth Airport [AGPR5626]	WA	In buffer area only
Perth Airport [AGPR5708]	WA	In buffer area only
Perth Airport [AGPR5625]	WA	In buffer area only
Perth Airport [AGPR5583]	WA	In buffer area only
Perth Airport [AGPR5666]	WA	In buffer area only
Perth Airport [AGPR5622]	WA	In buffer area only
Perth Airport [AGPR5587]	WA	In buffer area only
Perth Airport [AGPR5674]	WA	In buffer area only
Perth Airport [AGPR5638]	WA	In buffer area only
Perth Airport [AGPR5582]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Perth Airport [AGPR5580]	WA	In buffer area only
Perth Airport [AGPR5628]	WA	In buffer area only
Perth Airport [AGPR5541]	WA	In buffer area only
Perth Airport [AGPR5544]	WA	In buffer area only
Perth Airport [AGPR5574]	WA	In buffer area only
Perth Airport [AGPR5575]	WA	In buffer area only
Perth Airport [AGPR5577]	WA	In buffer area only
Perth Airport [AGPR5571]	WA	In buffer area only
Perth Airport [AGPR5570]	WA	In buffer area only
Perth Airport [AGPR5573]	WA	In buffer area only
Perth Airport [AGPR5572]	WA	In buffer area only
Perth Airport [AGPR5585]	WA	In buffer area only
Perth Airport [AGPR5701]	WA	In buffer area only
Perth Airport [AGPR5673]	WA	In buffer area only
Perth Airport [AGPR5670]	WA	In buffer area only
Perth Airport [AGPR5634]	WA	In buffer area only
Perth Airport [AGPR5579]	WA	In buffer area only
Perth Airport [AGPR5547]	WA	In buffer area only
Perth Airport [AGPR5545]	WA	In buffer area only
Perth Airport [AGPR5584]	WA	In buffer area only
Perth Airport [AGPR5703]	WA	In buffer area only
Perth Airport [AGPR5581]	WA	In buffer area only
Department of Veterans' Affairs		
Lot 500 P006210 [AGPR5755]	WA	In buffer area only
Lot 66 D002465 [AGPR5756]	WA	In buffer area only
Lot 70 D005514 [AGPR5757]	WA	In buffer area only

Commonwealth Heritage Places			[Resource Information]
Name	State	Status	Buffer Status

Name	State	Status	Buffer Status
Historic			
Army Magazine Buildings Irwin Barracks	WA	Listed place	In buffer area only
Inglewood Post Office	WA	Listed place	In buffer area only
Perth General Post Office	WA	Listed place	In buffer area only
Victoria Park Post Office	WA	Listed place	In buffer area only

Listed Marine Species	[Resource Information]		
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Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Anous stolidus Common Noddy [825]		Species or species habitat likely to occur within area	In buffer area only
Anous tenuirostris melanops Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Ardenna carneipes as Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Ardenna grisea as Puffinus griseus Sooty Shearwater [82651]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Roosting known to occur within area	In buffer area only
Bubulcus ibis as Ardea ibis 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
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Roosting known to occur within area	In feature area
Calidris alba Sanderling [875]		Roosting known to occur within area	In buffer area only
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area overfly marine area	In feature area
Calidris subminuta Long-toed Stint [861]		Species or species habitat known to occur within area overfly marine area	In feature area
Calidris tenuirostris Great Knot [862]	Vulnerable	Roosting known to occur within area overfly marine area	In buffer area only
Charadrius bicinctus Double-banded Plover [895]		Roosting known to occur within area overfly marine area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius ruficapillus Red-capped Plover [881]		Roosting known to occur within area overfly marine area	In feature area
Chroicocephalus novaehollandiae as Larus novaehollandiae Silver Gull [82326]		Breeding known to occur within area	In buffer area only
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area overfly marine area	In buffer area only
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area overfly marine area	In buffer area only
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Roosting known to occur within area overfly marine area	In feature area
Hydroprogne caspia as Sterna caspia Caspian Tern [808]		Foraging, feeding or related behaviour known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Larus pacificus Pacific Gull [811]		Foraging, feeding or related behaviour may occur within area	In buffer area only
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In buffer area only
Limosa limosa Black-tailed Godwit [845]	Endangered	Roosting known to occur within area overfly marine area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area overfly marine area	In buffer area only
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area	In buffer area only
Onychoprion anaethetus as Sterna anaethetus Bridled Tern [82845]		Breeding known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pachyptila turtur Fairy Prion [1066]		Species or species habitat known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area
Phaethon rubricauda Red-tailed Tropicbird [994]		Species or species habitat may occur within area	In buffer area only
Phalaropus lobatus Red-necked Phalarope [838]		Roosting known to occur within area	In buffer area only
Phoebastria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area	In buffer area only
Pluvialis squatarola Grey Plover [865]	Vulnerable	Roosting known to occur within area overfly marine area	In buffer area only
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Puffinus assimilis Little Shearwater [59363]		Foraging, feeding or related behaviour known to occur within area	In buffer area only
Recurvirostra novaehollandiae Red-necked Avocet [871]		Roosting known to occur within area overfly marine area	In feature area
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Stercorarius antarcticus as Catharacta skua Brown Skua [85039]		Species or species habitat may occur within area	In buffer area only
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Sternula albifrons as Sterna albifrons Little Tern [82849]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Thalassarche cauta Shy Albatross [89224]	Endangered	Species or species habitat may occur within area	In buffer area only
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In buffer area only
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Thinornis cucullatus as Thinornis rubricollis Hooded Plover, Hooded Dotterel [87735]		Species or species habitat known to occur within area overfly marine area	In feature area
Tringa brevipes as Heteroscelus brevipes Grey-tailed Tattler [851]		Roosting known to occur within area	In buffer area only
Tringa glareola Wood Sandpiper [829]		Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area overfly marine area	In buffer area only
Tringa totanus Common Redshank, Redshank [835]		Roosting known to occur within area overfly marine area	In buffer area only
Xenus cinereus Terek Sandpiper [59300]	Vulnerable	Roosting known to occur within area overfly marine area	In buffer area only
Fish			
Acentronura australe Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area	In buffer area only
Campichthys galei Gale's Pipefish [66191]		Species or species habitat may occur within area	In buffer area only
Choeroichthys suillus Pig-snouted Pipefish [66198]		Species or species habitat may occur within area	In buffer area only
Halicampus brocki Brock's Pipefish [66219]		Species or species habitat may occur within area	In buffer area only
Heraldia nocturna Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within area	In buffer area only
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area	In buffer area only
Hippocampus breviceps Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hippocampus subelongatus West Australian Seahorse [66722]		Species or species habitat may occur within area	In buffer area only
Histiogamphelus cristatus Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]		Species or species habitat may occur within area	In buffer area only
Lissocampus caudalis Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area	In buffer area only
Lissocampus fatiloquus Prophet's Pipefish [66250]		Species or species habitat may occur within area	In buffer area only
Lissocampus runa Javelin Pipefish [66251]		Species or species habitat may occur within area	In buffer area only
Maroubra perserrata Sawtooth Pipefish [66252]		Species or species habitat may occur within area	In buffer area only
Mitotichthys meraculus Western Crested Pipefish [66259]		Species or species habitat may occur within area	In buffer area only
Nannocampus subosseus Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat may occur within area	In buffer area only
Phycodurus eques Leafy Seadragon [66267]		Species or species habitat may occur within area	In buffer area only
Phyllopteryx taeniolatus Common Seadragon, Weedy Seadragon [66268]		Species or species habitat may occur within area	In buffer area only
Pugnaso curtirostris Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area	In buffer area only
Stigmatopora argus Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area	In buffer area only
Stigmatopora nigra Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area	In buffer area only
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In buffer area only
Urocampus carinirostris Hairy Pipefish [66282]		Species or species habitat may occur within area	In buffer area only
Vanacampus margaritifer Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area	In buffer area only
Vanacampus phillipi Port Phillip Pipefish [66284]		Species or species habitat may occur within area	In buffer area only
Vanacampus poecilolaemus Longsnout Pipefish, Australian Longsnout Pipefish, Long-snouted Pipefish [66285]		Species or species habitat may occur within area	In buffer area only
Mammal			
Arctocephalus forsteri Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within area	In buffer area only
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Reptile			
Aipysurus pooleorum Shark Bay Sea Snake [66061]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Hydrophis kingii as Disteira kingii Spectacled Sea Snake [93511]		Species or species habitat may occur within area	In buffer area only
Hydrophis platura as Pelamis platurus Yellow-bellied Sea Snake [93746]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour 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			
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area	In buffer area only
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area	In buffer area only

Current Scientific Name	Status	Type of Presence	Buffer Status
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In buffer area only
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding known to occur within area	In buffer area only
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In buffer area only
Megaptera novaeangliae Humpback Whale [38]		Species or species habitat known to occur within area	In buffer area only
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In buffer area only
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In buffer area only
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In buffer area only

Australian Marine Parks [\[Resource Information \]](#)

Park Name	Zone & IUCN Categories	Buffer Status
Two Rocks	Multiple Use Zone (IUCN VI)	In buffer area only
Two Rocks	National Park Zone (IUCN II)	In buffer area only

Extra Information

State and Territory Reserves [\[Resource Information \]](#)

Protected Area Name	Reserve Type	State	Buffer Status
Bold Park	Botanic Gardens	WA	In buffer area only
Bullsbrook	Nature Reserve	WA	In buffer area only

Protected Area Name	Reserve Type	State	Buffer Status
Ellen Brook	Nature Reserve	WA	In buffer area only
Errina Road	Nature Reserve	WA	In buffer area only
Helena River	Management Area	WA	In buffer area only
Jandabup	Nature Reserve	WA	In buffer area only
John Forrest	National Park	WA	In buffer area only
Kings Park	Botanic Gardens	WA	In buffer area only
Lake Joondalup	Nature Reserve	WA	In buffer area only
Marmion	Marine Park	WA	In buffer area only
Matilda Bay Reserve	5(1)(g) Reserve	WA	In buffer area only
Milyu	Nature Reserve	WA	In buffer area only
Neaves Road	Nature Reserve	WA	In buffer area only
Neerabup	National Park	WA	In buffer area only
Neerabup	Nature Reserve	WA	In buffer area only
NTWA Bushland covenant (0157)	Conservation Covenant	WA	In buffer area only
Perth Zoo	Other	WA	In buffer area only
Swan Estuary	Marine Park	WA	In buffer area only
Swan Estuary - Milyu	Marine Park	WA	In buffer area only
Swan Estuary - Pelican Point	Marine Park	WA	In buffer area only
Swan River	Management Area	WA	In buffer area only
Talbot Road	Nature Reserve	WA	In buffer area only
Twin Swamps	Nature Reserve	WA	In buffer area only
Unnamed WA02336	Nature Reserve	WA	In buffer area only
Unnamed WA1919/893	Management Area	WA	In buffer area only
Unnamed WA21176	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA31906	Nature Reserve	WA	In buffer area only
Unnamed WA33618	Management Area	WA	In buffer area only
Unnamed WA36440	Management Area	WA	In buffer area only

Protected Area Name	Reserve Type	State	Buffer Status
Unnamed WA43290	Conservation Park	WA	In buffer area only
Unnamed WA44622	Nature Reserve	WA	In buffer area only
Unnamed WA44853	Nature Reserve	WA	In buffer area only
Unnamed WA45772	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA45773	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA46756	Conservation Park	WA	In buffer area only
Unnamed WA46875	Nature Reserve	WA	In buffer area only
Unnamed WA46919	Nature Reserve	WA	In buffer area only
Unnamed WA46920	Nature Reserve	WA	In buffer area only
Unnamed WA46926	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA49300	Nature Reserve	WA	In buffer area only
Unnamed WA50067	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA50069	Nature Reserve	WA	In buffer area only
Unnamed WA50514	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA52237	5(1)(h) Reserve	WA	In buffer area only
Unnamed WA53453	Nature Reserve	WA	In buffer area only
Walyunga	National Park	WA	In buffer area only
Walyunga	National Park	WA	In buffer area only
Woodvale	5(1)(h) Reserve	WA	In buffer area only
Yanchep	National Park	WA	In buffer area only
Yeal	Nature Reserve	WA	In buffer area only

Regional Forest Agreements

[\[Resource Information \]](#)

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

RFA Name	State	Buffer Status
South-West Forest Region of Western Australia	Western Australia	In buffer area only

EPBC Act Referrals

[\[Resource Information \]](#)

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Alkimos Seawater Desalination	2019/8453		Completed	In feature area
Ballajura Station Precinct Structure Plan Project	2024/10016		Referral Decision	In buffer area only
BP Area 2A Residential Development	2024/10091		Completed	In buffer area only
Bullsbrook South - Stage 1 Residential Development	2024/09997		Completed	In buffer area only
Caporn Street Mariginiup Subdivision and Development	2024/10014		Completed	In buffer area only
Carabooda Quarry	2023/09554		Completed	In buffer area only
Eradication of the European House Borer, Perth metropolitan area, WA	2009/5027		Completed	In feature area
Expansion of Limestone Extraction	2022/09324		Post-Approval	In buffer area only
Gonneville Nickel-Copper-Platinum Group Element Mine Development Project	2024/09839		Assessment	In buffer area only
Hale School Development	2022/09273		Completed	In buffer area only
Land Clearing for Light Industrial Development	2022/09419		Completed	In buffer area only
Land clearing for timber storage	2022/09367		Completed	In buffer area only
Land Development, James Street and Well Street, East Wanneroo, Elberton Property	2021/9106		Assessment	In buffer area only
Mariginiup Residential Development	2023/09675		Assessment	In buffer area only
Marine Route Survey for Subsea Fibre Optic Data Cable System - Australia West	2024/09826		Completed	In buffer area only
Muchea Silica Sand Project	2022/09370		Referral Decision	In buffer area only
Northern Terminal to Neerabup Terminal 330kV Transmission Line	2024/09799		Assessment	In feature area
Rangedale Landholdings	2023/09612		Assessment	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Raphael Road Residential Development	2023/09761		Completed	In buffer area only
Residential Development, Woodvale	2024/10047		Referral Decision	In feature area
Residential Subdivision development	2011/6040		Post-Approval	In feature area
Roe Highway and Great Eastern Highway Bypass Grade Separation Interchange, Hazelmere WA	2020/8784		Post-Approval	In buffer area only
Samphire Offshore Wind Farm	2022/09306		Assessment	In buffer area only
Sand quarry development, Lot 2, Bingham Road, Bullsbrook, WA	2017/8104		Completed	In buffer area only
SMAP telecommunications submarine cable installation	2024/09989		Completed	In buffer area only
Subdivision Lot 4 Flynn Drive and earthworks for industrial development, 240 Fl	2009/5028		Completed	In buffer area only
Upgrade of Flynn Drive to dual carriageway between Tranquil Vista to Old Yanchep Road, CARRAMAR, BANKSIA GROVE and NEERABUP.	2024/09948		Assessment	In feature area
Urban Development of Part Lot 801 Marmion Avenue, Eglinton	2024/09881		Completed	In buffer area only
Vegetation Clearing Viticulture project	2021/9099		Completed	In buffer area only
Wanneroo Shooting Complex - Public shooting range	2023/09630		Assessment	In buffer area only
Wanneroo South Groundwater Source Bores	2023/09702		Completed	In feature area
Wattle Avenue East Quarry	2022/09326		Assessment	In buffer area only
Yanchep Rail Extension, WA	2018/8262		Post-Approval	In buffer area only
Controlled action				
Airport & Freight Access Gateway	2010/5384	Controlled Action	Post-Approval	In buffer area only
Alkimos city centre and central development, WA	2015/7561	Controlled Action	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Alkimos Coastal Node	2020/8861	Controlled Action	Further Information Request	In buffer area only
Brigadoon Estate Rural Residential Development	2008/4250	Controlled Action	Post-Approval	In buffer area only
Butler North District Open Space playing fields development, Wanneroo, WA	2017/8053	Controlled Action	Post-Approval	In buffer area only
Catalina Residential Development	2010/5785	Controlled Action	Post-Approval	In buffer area only
East Landsdale Residential Development	2008/4676	Controlled Action	Post-Approval	In buffer area only
East Wanneroo Cell 9 residential subdivision - Lots 50,51,52,154 & 404	2010/5772	Controlled Action	Completed	In feature area
Eglinton/South Yanchep Residential Development	2011/6021	Controlled Action	Post-Approval	In buffer area only
Eglinton Estates - Clearing of native vegetation from Lot 1007 & part Lot 1008	2010/5777	Controlled Action	Post-Approval	In buffer area only
Ellenbrook Reliable Water Storage Project, WA	2015/7421	Controlled Action	Post-Approval	In buffer area only
Erindale Road Development, Hamersley, WA	2018/8324	Controlled Action	Further Information Request	In buffer area only
Excavate sand and limestone resources	2010/5621	Controlled Action	Completed	In buffer area only
Great Northern Highway Muchea to Wubin Upgrade Stage 2 - Muchea North, WA	2016/7656	Controlled Action	Post-Approval	In buffer area only
Jindee Residential Development	2012/6631	Controlled Action	Post-Approval	In buffer area only
Limestone extraction on Lot 8 Wattle Avenue, Nowergup	2013/6767	Controlled Action	Post-Approval	In buffer area only
Lot 112 and Lot 114 Warbrook Road, Bullsbrook	2020/8753	Controlled Action	Further Information Request	In buffer area only
Lot 1665 Wanneroo Road, Sinagra.	2017/7921	Controlled Action	Post-Approval	In buffer area only
Lot 9000 Wanneroo Road Sinagra Mixed Use Development, Western Australia	2020/8798	Controlled Action	Proposed Decision	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Meridian Business Park Industrial Development	2007/3479	Controlled Action	Post-Approval	In buffer area only
Midland Cemetery Expansion	2008/4246	Controlled Action	Completed	In buffer area only
Mitchell Freeway Extension and Wanneroo Road Upgrade, WA	2018/8367	Controlled Action	Post-Approval	In buffer area only
Mitchell Freeway Extension between Burns Beach Rd and Hester Av, Neerabup, WA	2013/7091	Controlled Action	Post-Approval	In buffer area only
Mitchell Freeway Principal Shared Path Gaps Project Ocean Reef Road to Hepburn Avenue	2020/8833	Controlled Action	Post-Approval	In buffer area only
Morley-Ellenbrook Rail Line Part 2, WA	2019/8546	Controlled Action	Post-Approval	In buffer area only
Muchea Industrial Precinct, Part of Lot 102 Great Northern Highway, Muchea, WA	2017/8119	Controlled Action	Post-Approval	In buffer area only
National Lifestyle Villages Development	2011/6020	Controlled Action	Post-Approval	In buffer area only
Natural Gas Pipeline Expansion	2006/2813	Controlled Action	Post-Approval	In buffer area only
Nava-1 Cable System	2001/510	Controlled Action	Completed	In buffer area only
Neerabup Industrial Area, WA	2021/8917	Controlled Action	Assessment Approach	In buffer area only
Neerabup Industrial Estate, Lot 701 Flynn Drive Neerabup WA	2012/6424	Controlled Action	Post-Approval	In buffer area only
Ocean Reef Marina Development	2009/4937	Controlled Action	Completed	In buffer area only
Perth-Darwin National Highway alignment (Swan Valley Section), WA	2013/7042	Controlled Action	Post-Approval	In buffer area only
Primary school, residential development and open space, Lots 9000 Bottlebrush Drive, Kiara, WA	2013/7050	Controlled Action	Post-Approval	In buffer area only
Proposed Urban Development of Lots 1005 & 1006	2008/4638	Controlled Action	Post-Approval	In buffer area only
Residential and commercial development on part 19 (Lot 6) Taronga Place, Eglinton, WA	2017/7872	Controlled Action	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Residential Development	2013/6983	Controlled Action	Completed	In buffer area only
Residential development, Lot 609, Yanchep Beach Road, Yanchep, WA	2014/7146	Controlled Action	Post-Approval	In buffer area only
Residential Development 822 Youle-Dean Road, Brabham, WA	2015/7458	Controlled Action	Post-Approval	In buffer area only
Residential development and conservation, Lot 102 Farrall Road, Stratton, WA	2017/8066	Controlled Action	Post-Approval	In buffer area only
Residential Development at Shenton Park	2007/3386	Controlled Action	Completed	In buffer area only
Residential development Lot 1004 Alkimos WA	2011/5902	Controlled Action	Post-Approval	In buffer area only
Rural Development, Lot 1983 North Ellenbrook, WA	2014/7232	Controlled Action	Further Information Request	In buffer area only
Sand Mining 70/915 Banksia Road, Wellard, WA	2015/7438	Controlled Action	Post-Approval	In buffer area only
Shark Hazard Mitigation Drum Line Program, WA	2014/7174	Controlled Action	Completed	In buffer area only
Shenton Park Subdivision	2004/1479	Controlled Action	Completed	In buffer area only
Subdivision of Lot 902 Flynn Drive Neerabup for Industrial Development	2021/8977	Controlled Action	Assessment Approach	In feature area
To grade separate three intersections on Tonkin Highway, WA	2014/7385	Controlled Action	Post-Approval	In buffer area only
Upper Swan Urban Development, 25km north, north-east of Perth, WA	2017/8062	Controlled Action	Post-Approval	In buffer area only
Urban and Residential Development at Lot 9 Brighton	2011/6137	Controlled Action	Post-Approval	In buffer area only
Urban development in accordance with the Local Structure Plan	2008/4601	Controlled Action	Post-Approval	In buffer area only
Urban Residential Development at Lot 9049 Marmoin Avenue	2009/5155	Controlled Action	Post-Approval	In buffer area only
Vegetation Clearing, Wannaroo Rd and Nowergup Rd	2011/5955	Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Vegetation clearing for future agricultural use, Bullsbrook, WA	2014/7120	Controlled Action	Post-Approval	In buffer area only
Not controlled action				
Alkimos seawater desalination plant, offshore investigations, WA	2018/8224	Not Controlled Action	Completed	In buffer area only
Amberton West urban development - Part lot 9005 Eglinton WA	2013/7068	Not Controlled Action	Completed	In buffer area only
APX-West Fibre-optic telecommunications cable system, WA to Singapore	2013/7102	Not Controlled Action	Completed	In buffer area only
Bold Park St John's Wood Mt Claremont residential development, Claremont WA	2014/7248	Not Controlled Action	Completed	In buffer area only
Boral Bricks Western Australia Pty Ltd, Muchea East Road, Muchea, Western Australia	2019/8522	Not Controlled Action	Completed	In buffer area only
Brabham North residential development, Brabham, WA	2018/8380	Not Controlled Action	Completed	In buffer area only
Butler Railway Extension Project - Nowergup Depot Eastern Alignment	2011/5989	Not Controlled Action	Completed	In buffer area only
Cell 2 of Caversham Local Structure Plan	2012/6259	Not Controlled Action	Completed	In buffer area only
Commercial development of Lot 9004 Hodges Drive, Joondalup, WA	2016/7844	Not Controlled Action	Completed	In buffer area only
Connect Joondalup - Lot 9000 McLarty Ave and Lot 999 Piccadilly Circus, Joondalup, WA	2016/7758	Not Controlled Action	Completed	In buffer area only
Construction of an International Rifle Range	2011/6068	Not Controlled Action	Completed	In buffer area only
Construction of the Perth Stadium and associated infrastructure	2013/6740	Not Controlled Action	Completed	In buffer area only
Container Deposit Scheme Project	2019/8517	Not Controlled Action	Completed	In buffer area only
Cottesloe Golf Course safety improvements, Swanbourne, WA	2019/8423	Not Controlled Action	Completed	In buffer area only
Development Application 20 Kenhelm St Balcatta WA	2021/9037	Not Controlled Action	Completed	In buffer area only
Development of 39 (Lot 3000) Hardcastle Avenue, Landsdale, WA	2017/8100	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Development of a Diagnostic Laboratory	2011/6089	Not Controlled Action	Completed	In buffer area only
Development of Crown Towers Five Star Quality Hotel	2012/6695	Not Controlled Action	Completed	In buffer area only
Development of ECU Engineering Annex, Joondalup Campus, WA	2017/7995	Not Controlled Action	Completed	In buffer area only
Development of Existing Lots 9970 & 10754, Bedbrook Pl, Shenton Park, WA	2013/7033	Not Controlled Action	Completed	In buffer area only
Development of new Alkimos Wastewater Treatment Plant	2007/3259	Not Controlled Action	Completed	In buffer area only
Ellenbrook Bus Rapid Transit Project, WA	2016/7732	Not Controlled Action	Completed	In buffer area only
Extension of 7.5km of the Joondalup Line electrified passenger railway from Cla	2010/5632	Not Controlled Action	Completed	In buffer area only
Extension of Red Hill hard rock quarry, Lot 11 Toodyay Road	2007/3433	Not Controlled Action	Completed	In buffer area only
Flynn Drive / Pinjar Road Intersection Works, Lot 9000 Flynn Drive, Neerabup, WA	2017/7983	Not Controlled Action	Completed	In buffer area only
Forrestfield Airport Link, WA	2015/7399	Not Controlled Action	Completed	In buffer area only
Fremantle Ports Inner Harbour Capital Dredging Proposal	2005/2477	Not Controlled Action	Completed	In buffer area only
Gnangara Road upgrade project, city of Swan, WA	2013/6966	Not Controlled Action	Completed	In buffer area only
GPO Building, 3 Forrest Place, Perth WA 6000	2017/8014	Not Controlled Action	Completed	In buffer area only
Groundwater Replenishment Scheme (GWRS) Stage 2	2016/7786	Not Controlled Action	Completed	In buffer area only
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
INDIGO Central Submarine Telecommunications Cable	2017/8127	Not Controlled Action	Completed	In buffer area only
INDIGO West Submarine Telecommunications Cable, WA	2017/8126	Not Controlled Action	Completed	In buffer area only
Landsdale Primary School Development, WA	2015/7597	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Landsdale Residential Subdivision Development	2011/6027	Not Controlled Action	Completed	In buffer area only
Lot 158 Landsdale Rd, Landsdale, WA	2012/6403	Not Controlled Action	Completed	In buffer area only
Lot 594 Wanneroo Road development, Hocking	2020/8621	Not Controlled Action	Completed	In buffer area only
Lots 71 & 72 Queensway Rd, East Landsdale	2012/6541	Not Controlled Action	Completed	In buffer area only
Nowergup Strawberry Farm McLennan Drive, Nowergup, WA	2017/8042	Not Controlled Action	Completed	In buffer area only
Ocean Reef Marina Development, City of Joondalup, WA	2014/7237	Not Controlled Action	Completed	In buffer area only
Oman Australia Cable Installation, WA	2021/8922	Not Controlled Action	Completed	In buffer area only
Oman Australia Cable - Marine Route Survey	2020/8731	Not Controlled Action	Completed	In buffer area only
Pearsall Primary School, Lots 62, 269, 1008, 1009 & Part Lot 23, Pearsall, WA	2012/6405	Not Controlled Action	Completed	In feature area
Pinjar Motorcycle Park Raceway Development	2012/6419	Not Controlled Action	Completed	In buffer area only
Quinns Main sewer extension, Clarkson - Neerabup, WA	2018/8215	Not Controlled Action	Completed	In buffer area only
Realignment of Flynn Drive	2011/6170	Not Controlled Action	Completed	In buffer area only
Reid Highway/Malaga Drive interchange upgrade, City of Swan, WA	2013/6892	Not Controlled Action	Completed	In buffer area only
Reid Highway duplication project(Erindale Rd - Duffy Rd)WA	2013/7073	Not Controlled Action	Completed	In buffer area only
Residential and commercial development, Lot 1981 Alexander Drive & Lot 152 Gnangara Road, Landsdale,	2013/6982	Not Controlled Action	Completed	In feature area
Residential Development, 50 Lot 2 Driver Road, Darch, Western Australia	2020/8677	Not Controlled Action	Completed	In buffer area only
Residential development, Landsdale, WA	2013/6964	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Residential development, Lot 14143 (16) Harford Way, Girrawheen, WA	2016/7819	Not Controlled Action	Completed	In buffer area only
Residential Development, Lot 4 Coogee Road, Mariginiup, WA	2019/8452	Not Controlled Action	Completed	In buffer area only
Residential Development, Lot 500 Park Street, Brabham, WA	2019/8472	Not Controlled Action	Completed	In buffer area only
Residential development, Lot 55 Alexander Drive, Landsdale, WA	2013/6971	Not Controlled Action	Completed	In buffer area only
Residential Development, Lots 10 Dundobar Road and 28 and 29 Belgrade Road, East Wanneroo, WA	2019/8521	Not Controlled Action	Completed	In buffer area only
Residential development, Lots 9010 and 9031, Yanchep Beach Rd, Yanchep	2016/7642	Not Controlled Action	Completed	In buffer area only
Residential Development Eglinton West, Lot 5000 & part Lot 5001, Pipidinny Road, Eglinton	2014/7137	Not Controlled Action	Completed	In buffer area only
Residential development of 118 Coogee Road, Mariginiup, WA	2017/8011	Not Controlled Action	Completed	In buffer area only
Residential Subdivision	2012/6410	Not Controlled Action	Completed	In buffer area only
Residential subdivision - lot 169 Kingsway Road, Landsdale WA	2012/6412	Not Controlled Action	Completed	In buffer area only
Residential Subdivision - Lots 12, 36 & 38 Capron St, Wanneroo	2012/6409	Not Controlled Action	Completed	In buffer area only
Residential subdivision - Lots 156 and 157 Landsdale Road Landsdale WA	2012/6407	Not Controlled Action	Completed	In buffer area only
Sand and clay extraction, Lots 5 and 6, 1728 Great Northern Hwy, Bullsbrook, WA	2019/8415	Not Controlled Action	Completed	In buffer area only
Seismic Survey, Bremer Basin, Mentelle Basin and Zeewyck Sub-basin	2004/1700	Not Controlled Action	Completed	In buffer area only
Shenton Park Rehabilitation Hospital Redevelopment, Shenton Park, WA	2015/7622	Not Controlled Action	Completed	In buffer area only
Shenton Park Zone Substation Conversion and Expansion	2012/6354	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Telstra PITC O3B Clearing Application	2011/6147	Not Controlled Action	Completed	In buffer area only
Tonkin Highway Upgrade, Guildford Road to Great Eastern Highway, WA	2019/8545	Not Controlled Action	Completed	In buffer area only
Urban Development Project, Lot 55 and 56 Cottonwood Crescent, Dianella, WA	2017/8031	Not Controlled Action	Completed	In buffer area only
Wangara Industrial Extension Area, WA	2012/6501	Not Controlled Action	Completed	In feature area
Wanneroo Road/Ocean Reef Road Grade Separation, Pearsall, WA	2017/8110	Not Controlled Action	Completed	In feature area
Wanneroo Road Duplication, WA	2015/7632	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
Australia to Singapore Fibre Optic Submarine Cable System	2011/6127	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Commercial Estate and Aeronautical Infrastructure Development, Precincts 2A & 2B	2006/3021	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Laying a submarine optical fibre telecommunications cable, Perth to Singapore and Jakarta	2014/7332	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Ocean Reef Road Extension Works in Wangara	2010/5388	Not Controlled Action (Particular Manner)	Post-Approval	In feature area
Perth GPO alteration and refurbishment	2007/3318	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Road realignment and widening	2009/4926	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Rural/Residential Subdivision at Lot 502 Jane Brook Drive	2009/5261	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Sale of ABC Sound Broadcasting and Television Studios	2008/3951	Not Controlled Action	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action (particular manner)				
		(Particular Manner)		
South West Metropolitan Railway Project	2003/1175	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Transmission Line Rebuild and Extension	2009/5105	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Referral decision				
Boundary Road Sand Quarry	2019/8560	Referral Decision	Completed	In buffer area only
GPO Building, 3 Forrest Place, Perth WA 6000	2017/7988	Referral Decision	Completed	In buffer area only
Transmission Line Rebuild and Extension	2009/4972	Referral Decision	Completed	In buffer area only

Key Ecological Features

[\[Resource Information \]](#)

Key Ecological Features are the parts of the marine ecosystem that are considered to be important for the biodiversity or ecosystem functioning and integrity of the Commonwealth Marine Area.

Name	Region	Buffer Status
Commonwealth marine environment within and adjacent to the west coast inshore lagoons	South-west	In buffer area only
Western rock lobster	South-west	In buffer area only

Biologically Important Areas

[\[Resource Information \]](#)

Scientific Name	Behaviour	Presence	Buffer Status
Seabirds			
Ardena pacifica			
Wedge-tailed Shearwater [84292]	Foraging (in high numbers)	Known to occur	In buffer area only
Hydroprogne caspia			
Caspian Tern [808]	Foraging (provisioning young)	Known to occur	In buffer area only
Larus pacificus			
Pacific Gull [811]	Foraging (in high numbers)	Former Range	In buffer area only

Scientific Name	Behaviour	Presence	Buffer Status
Onychoprion anaethetus Bridled Tern [82845]	Foraging (in high numbers)	Known to occur	In buffer area only
Puffinus assimilis tunneyi Little Shearwater [59363]	Foraging (in high numbers)	Known to occur	In buffer area only
Sterna dougallii Roseate Tern [817]	Foraging	Known to occur	In buffer area only
Sternula nereis Fairy Tern [82949]	Foraging (in high numbers)	Known to occur	In buffer area only
Seals			
Neophoca cinerea Australian Sea Lion [22]	Foraging (male)	Likely to occur	In buffer area only
Whales			
Eubalaena australis Southern Right Whale [40]	Migration		In buffer area only
Megaptera novaeangliae Humpback Whale [38]	Migration (north)	Known to occur	In buffer area only
Megaptera novaeangliae Humpback Whale [38]	Migration (north and south)	Known to occur	In buffer area only

Caveat

1 PURPOSE

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

The report contains the mapped locations of:

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

2 DISCLAIMER

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

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

3 DATA SOURCES

Threatened ecological communities

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

Threatened, migratory and marine species

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

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions when time permits.

4 LIMITATIONS

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

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

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

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

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

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

Acknowledgements

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

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

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.

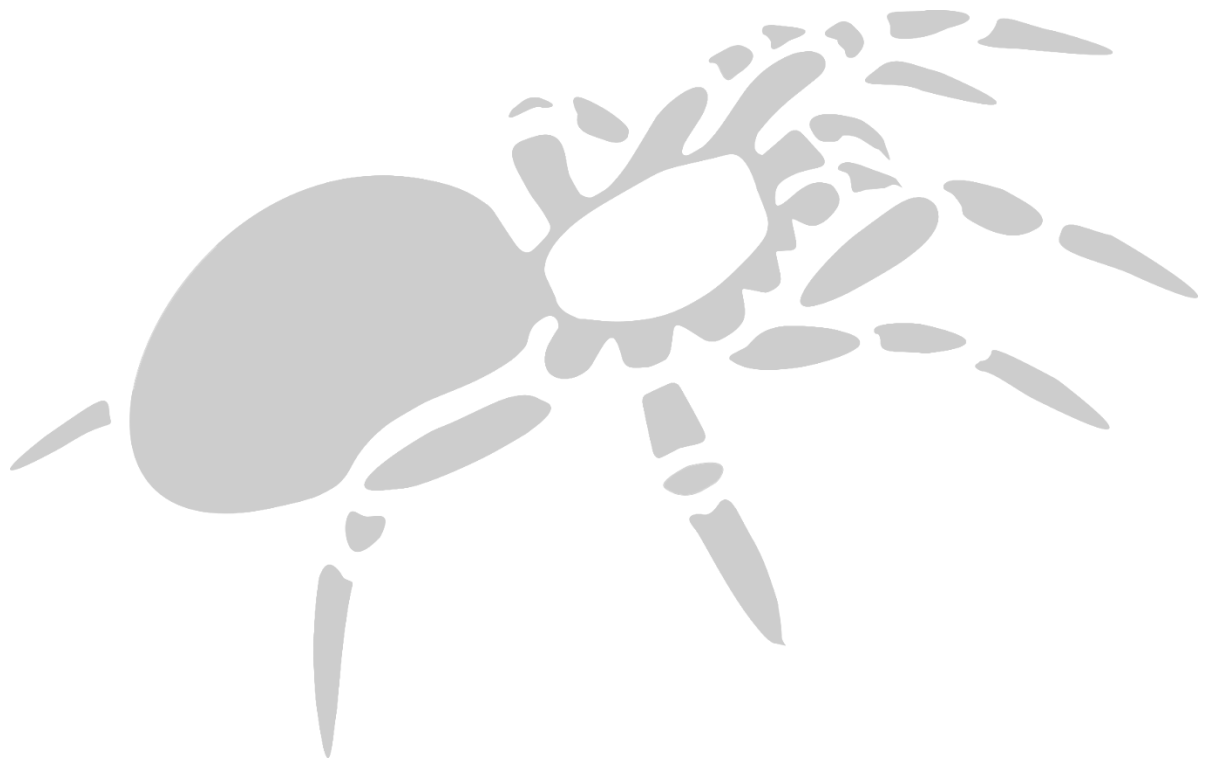
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