

Lot 300 Back Beach Road, Onslow

# Detailed Terrestrial Fauna and Shorebird Survey

Prepared for Mineral Resources Limited July 2022

people
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 professional

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# **Executive Summary**

Mineral Resources Limited commissioned 360 Environmental Pty Ltd (360 Environmental) part of SLR Consulting Pty Ltd (SLR) to undertake a biological survey (Detailed Vertebrate Fauna and Shorebird) for the proposed development of short stay worker accommodation at Lot 300 Back Beach Road, Onslow (the Survey Area). The Survey Area is located in the Carnarvon bioregion of Western Australia and covers approximately 25 ha.

The purpose of the assessment was to identify key biological values within the Survey Area to support the Environmental Assessment Report (EAR) process and approvals applications for development. This report presents the background, methods, results, and discussion of the survey undertaken.

### **Vertebrate Fauna and Shorebirds**

The vertebrate fauna desktop assessment identified 58 significant species occurring within 20 km of the Survey Area. An assessment of the likelihood of occurrence within the Survey Area was undertaken and identified that, of the potential significant fauna, no species had a high likelihood of occurrence, 11 had a medium likelihood of occurrence, and 47 had a low likelihood of occurrence.

Fauna habitat mapping was based on a combination of field observations and fauna habitat assessment data. One fauna habitat was mapped within the Survey Area which was identified as Coastal Dunes.

A single-phase detailed vertebrate fauna and shorebird survey recorded fauna assemblage using a variety of detection methods including trap sites, opportunistic observations, and active searches. A total of 62 fauna species from 37 families were recorded, comprising 37 bird species from 21 families, nine mammal species from eight families, 15 reptile species from seven families, and one amphibian from one family.

Four significant species were recorded adjacent to the Survey Area during the fauna survey; the Caspian Tern (*Hydroprogne caspia*; DBCA: IA; EPBC: MI, MA), the Common Sandpiper (*Actitis hypoleucos*; DBCA: IA; EPBC: MI, MA), the Eastern Osprey (*Pandion haliaetus cristatus*; DBCA: IA; EPBC: MI, MA), and the Greater Crested Tern (*Thalasseus bergii*; DBCA: IA; EPBC: MI, MA).

Five introduced species were recorded during the survey, the Cat (*Felis catus*), the House Mouse (*Mus musculus*), the Red Fox (*Vulpes vulpes*), the Asian House Gecko (*Hemidactylus frenatus*), and the Green Tree Frog (*Litoria caerulea*; an extralimital population).

The single-phase detailed vertebrate fauna survey was undertaken in April 2022, three weeks after a 70.2 mm rain event (30<sup>th</sup> March to 2<sup>nd</sup> April 2022), which is considered suitable for reptiles, mammals, amphibians, and non-migratory/bush birds.



The single-phase shorebird survey was undertaken in April 2022, the guidance does not make a distinction between bush and migratory birds in the Eremaean Botanical Province but does recommend surveying for migratory birds in the Southern Botanical Province between November and March. As the majority of migratory bird species migrate each year during the Northern Hemisphere summer and autumn to Australia before returning north in March and April, an April migratory shorebird survey is unlikely to record the full suite of migratory bird species that visit Onslow each year.





# **Abbreviations**

Abbreviations used through the report are described below in **Table 1** 

**Table 1: Abbreviations** 

Abbreviation	Description
360 Environmental	360 Environmental Pty Ltd
ALA	Atlas of Living Australia
ARU	Autonomous Recording Unit
BAM Act	Biosecurity and Agriculture Management Act 2007
BC Act	Biodiversity Conservation Act 2016
ВоМ	Bureau of Meteorology
°C	Degree Celsius
CD	Conservation Dependent Fauna
CR	Critically Endangered
DAWE	Department of Agriculture, Water, and the Environment
DBCA	Department of Biodiversity, Conservation and Attractions
DoE	Department of Environment
DWER	Department of Water and Environmental Regulation
EIA	Environmental Impact Assessment
EN	Endangered
EP Act	Environmental Protection Act 1986
EPA	Environmental Protection Authority
EPBC Act	Environment Protection Biodiversity and Conservation Act 1999
ESA	Environmentally Sensitive Area
GIS	Geographic Information System
На	Hectare
IA	Migratory listing under the Wildlife Conservation Notice 2018
IBRA	Interim Biogeographic Regionalisation for Australia
IBSA	Index of Biodiversity Surveys for Assessments
km	Kilometres
m	Metres
mm	Millimetres
MA	Marine
MI	Migratory listing under the EPBC Act 1999
MNES	Matters of National Environmental Significance
OS	Other Specially Protected Fauna
Р	Priority
PMST	Protected Matters Search Tool



SLR	SLR Consulting Pty Ltd
Survey Area	The Survey Area is approximately 25 ha and is located on Lot 300 Back Beach Road, Onslow, WA
Т	Threatened
TEC	Threatened Ecological Community
VU	Vulnerable
WA	Western Australia
WAM	Western Australian Museum



# **Table of Contents**

1.	Introduction	1
1.1.	The Project	1
1.2.	Objectives and Scope	1
2.	Background	1
2.1.	Protection of Fauna	1
2.2.	Existing Environment	2
3.	Methods	
3.1.	Desktop Assessment	5
3.2.	Field Surveys	
4.	Results	
4.1.	Limitations	13
4.2.	Vertebrate Fauna	
5.	Discussion	
5.1.	Vertebrate Fauna	
6.	Conclusion	
-		
7.	References	
8.	Report Disclaimer	45
	Tables  Abbreviations  Broad Vegetation Types within the State, Regional and Local Representation (Government of Western Australia, 2019)	
Table 3:	Database Searches of the Study Area	
	Likelihood of Occurrence Criteria	
	Field Personnel	
	Detailed Fauna Survey Weather Conditions (Bureau of Meteorology, 2022)	
	Detailed Fauna Survey Tidal Conditions (Department of Transport, 2022)	
	Trap Site Trapping Effort	
	Camera Trap Trapping Effort	
	: ARU Trapping Effort: : Shorebird Survey Effort and Tide Conditions (Beadon Creek, Station 62470)	10
Table II	(Department of Transport, 2022)	.11
Table 12	: Limitations and Constraints Associated with the Survey	
	: Fauna Habitat Type Descriptions with the Survey Area	
	: Overview of Vertebrate Fauna Species Recorded	
Table 15	: Significant Fauna Likelihood of Occurrence	20
List of	Plates	
Plate 1: 1	Trap Site Layout	9



# **List of Graphs**

Graph 1:	Long Term (1998 to 2020) and Monthly Total Rainfall, and Mean Maximum and
	Minimum Temperatures for Onslow Airport (5017) (Bureau of Meteorology,
	2022)

# List of Figures (out of text)

Figure 1: Survey Area

Figure 2: Broad Vegetation Types and Hydrography

Figure 3: Survey Effort

Figure 4: Threatened and Priority Fauna Locations Identified by DBCA Database Searches

Figure 5: Fauna Habitat

Figure 6: Migratory Bird Records

# **List of Appendices**

Appendix A Database Searches

Appendix B Literature Review

Appendix C Fauna Habitat Assessments

Appendix D Fauna Species List

Appendix E eBird and Birdata Records



# 1. Introduction

# 1.1. The Project

Mineral Resources Limited commissioned 360 Environmental Pty Ltd (360 Environmental) part of SLR Consulting Pty Ltd (SLR) to undertake a biological survey (Detailed Vertebrate Fauna and Shorebird) for the proposed development of short stay worker accommodation at Lot 300 Back Beach Road, Onslow (the Survey Area). The Survey Area is located in the Carnarvon bioregion of Western Australia. The Survey Area covers approximately 25 ha (Figure 1).

# 1.2. Objectives and Scope

The purpose of the survey was to delineate key fauna values within the Survey Area and identify potential environmental sensitivities that may impact the approvals process.

The scope of works includes:

- Undertake a Desktop Assessment including relevant database searches and a literature review to compile and summarise existing fauna records (including significant species and communities) in the vicinity of the Survey Area
- Carry out a single-phase detailed vertebrate fauna and shorebird survey to assess vertebrate fauna values in accordance with EPA Guidance
- Prepare a technical vertebrate fauna survey report
- Provide all spatial/mapping data collected during the survey in IBSA format.

This report presents the background, methods, results, and discussion of the surveys undertaken to support the above objectives.



# 2. Background

### 2.1. Protection of Fauna

Western Australian fauna is protected formally and informally by legislative and non-legislative measures:

### Legislative measures:

- Commonwealth Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)
- WA Biodiversity Conservation Act 2016 (BC Act)
- WA Environmental Protection Act 1986 (EP Act)
- WA Biosecurity and Agriculture Management Act 2007 (BAM Act).

### Non-legislative measures:

- WA Department of Biodiversity Conservation and Attractions (DBCA) Priority lists for fauna
- Recognition of locally significant populations by DBCA.

These protection mechanisms are supported by guidance documents published by the Environmental Protection Authority (EPA) and Department of Agriculture, Water and the Environment (DAWE; formerly Department of Environment, and Department of Sustainability, Environment, Water, Population and Communities):

- Technical Guidance Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment (Environmental Protection Authority, 2016)
- Matters of National Environmental Significance Significant impact guidelines
   1.1 Environment Protection and Biodiversity Conservation Act 1999 (Department of the Environment, 2013)
- Survey Guidelines for Australia's Threatened Mammals (Department of Sustainability Environment Water Population and Communities, 2011a)
- Survey Guidelines for Australia's Threatened Reptiles (Department of Sustainability Environment Water Population and Communities, 2011b)
- Survey Guidelines for Australia's Threatened Birds Under the Environment Protection and Biodiversity Conservation Act 1999 (Department of the Environment Water Heritage and the Arts, 2010).



# 2.2. Existing Environment

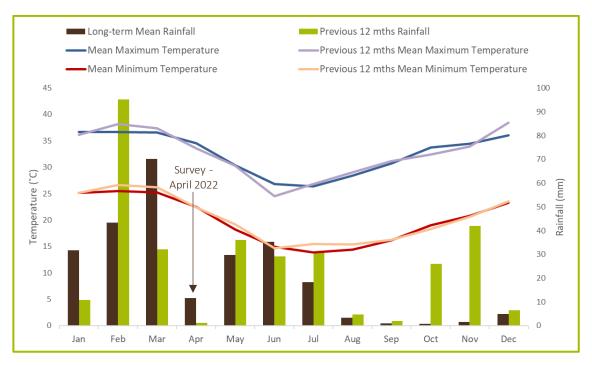
### 1.1.1 Climate

The closest long-term Bureau of Meteorology (BoM) weather station with a complete dataset is Onslow Airport (Station 5017), located approximately 3.0 km south of the Survey Area.

Climate statistics were calculated utilising data from the most current climate normal, which is defined as a 30-year interval (Bureau of Meteorology, 2007), where possible. A climate normal is a period long enough to include year-to-year variations while avoiding the influence of longer-term changes in climate (Bureau of Meteorology, 2007).

The long-term mean minimum temperature for Onslow Airport (1998 to 2020) ranges from 13.9°C (July) to 25.5°C (February) and the long-term mean maximum temperature for Onslow Airport (1998 to 2020) ranges from 26.4°C (July) to 36.7°C (January, February) (Graph 1) (Bureau of Meteorology, 2022).

The Onslow Airport weather station recorded 198.2 mm of rainfall in the 12 months prior to the survey (May 2021 to April 2022), which is 54 mm below the long-term average for Onslow Airport (1998 to 2020) of 252.2 mm (Bureau of Meteorology, 2022). In the three months prior to the survey (February to April 2022), 83.8 mm of rainfall was recorded, which is 41.5 mm below the long-term average for Onslow Airport (1998 to 2020) of 125.3 mm for the same time period (Bureau of Meteorology, 2022). Onslow received 70.2 mm of rain from the 30 March to the 2 April 2022.



Graph 1: Long Term (1998 to 2020) and Monthly Total Rainfall, and Mean Maximum and Minimum Temperatures for Onslow Airport (5017) (Bureau of Meteorology, 2022).



### 1.1.2 Interim Biogeographic Regionalisation of Australia

The Interim Biogeographic Regionalisation of Australia (IBRA) divides Australia into 89 bioregions based on major biological, geographical, and geological attributes. These bioregions are subdivided into 419 subregions as part of a refinement of the IBRA framework (Department of the Environment and Energy, 2016). The Survey Area occurs within the Carnarvon bioregion and the Cape Range (CAR01) subregion.

The Cape Range subregion (CAR01) is characterised by a mosaic of saline alluvial plains with samphire and saltbush low shrublands, low woodland on sandy ridges and plains, snakewood scrub on clay flats, and tree to shrub steppe over hummock grasslands on and between red sand dune fields (Kendrick and Mau, 2002). The subregion is represented by limestone strata with *Acacia stuartii* or *Acacia bivenosa* shrubland outcrop in the north, where extensive tidal flats in sheltered embayments support mangal.

### 1.1.3 Soil Landscapes and Land Systems

Soil landscapes and land system mapping of Western Australia describes broad soil and landscape characteristics from regional to local scales, ranging from 1:20,000 to 1:250,000 (Department of Agriculture and Food WA, 2012). The Survey Area occurs within the Dune System (201Du), which is described as dune fields supporting soft spinifex and minor hard spinifex grasslands.

### 1.1.4 Hydrography

The Survey Area does not intersect any major watercourses or water bodies that are mapped by State Government GIS databases (Department of Water and Environmental Regulation, 2018b). The Survey area is located 160 m from the coastal waterline (Figure 2).

### 1.1.5 Broad Vegetation Types

Mapping of pre-European vegetation in Western Australia was completed on a broad scale (1:1,000,000) by Beard (1976). These vegetation types were later refined by Shepherd *et al.* (2002) resulting in 819 vegetation types.

The Survey Area is mapped over the Cape Yannare Coastal Plain 117, which is a grass steppe characterised by hummock grassland (*Triodia* spp.) (Figure 2). Representation of the system associations at a local, regional, and state level is shown in Table 2.



Table 2: Broad Vegetation Types within the State, Regional and Local Representation (Government of Western Australia, 2019).

Broad Vegetation Type	Extent					
	Pre-European (ha)	Current (ha)	Remaining (%)	Managed in DBCA Lands (%)*		
	Representat	ion across Western	Australia			
117	919,517.05	886,005.79	96.36	14.79		
	Representation	across the Carnary	on Bioregion			
117	12,424.35	10,907.99	87.80	27.48		
R	epresentation acro	ss the Cape Range (	(CAR01) Subregion			
117	12,424.35	10,907.99	87.80	27.48		
	Representation across the Shire of Ashburton					
117	14,506.04	9,073.90	62.55	19.13		

<sup>\*</sup>As a portion of the current extent

### 1.1.6 Environmentally Sensitive Areas

Environmentally Sensitive Areas (ESAs) are declared by the Department of Water and Environmental Regulation (DWER) to prevent the degradation of important environmental values such as Threatened flora, Threatened Ecological Communities (TECs) or significant wetlands.

The Survey Area does not occur within a mapped ESA. The nearest ESAs are associated with Direction Island located approximately 11 km north of the Survey Area and Ashburton Island located approximately 18 km west of the Survey Area (Department of Water and Environmental Regulation, 2018a).

### 1.1.7 Conservation Areas

The Survey Area is not within a conservation area. The nearest conservation areas are Unallocated Crown Land (LR3046/473), vested under the Department of Planning, Lands and Heritage, which is located approximately 22 km south of the Survey Area and the Cane River Conservation Park, which is located 57 km southeast of the Survey Area and is vested under the Conservation Commission of Western Australia.



# 3. Methods

The biological survey documented by this report were undertaken in accordance with relevant EPA and DAWE guidelines (see section 2.1).

## 3.1. Desktop Assessment

### 3.1.1. Literature Review

Background information on the Survey Area and surrounds was compiled prior to the field survey (see Section 2.1). Historical vegetation mapping (Beard, 1976; Shepherd, Beeston and Hopkins, 2002), land systems mapping (Department of Agriculture and Food WA, 2012), and the IBRA classification system (Kendrick and Mau, 2002) were consulted to provide broad contextual knowledge of the vegetation units and habitat likely to be encountered within the Survey Area.

The literature review also considered a selection of biological reports detailing assessments undertaken in the region, that were publicly available:

- A Level 1 Vertebrate Fauna Assessment of the Proposed Ashburton North Gas Pipeline, Western Australia (Ninox Wildlife Consulting, 2014)
- A Level 1 Vertebrate Fauna Assessment of the Proposed Tubridgi to Wheatstone Gas Pipeline, Western Australia (Ninox Wildlife Consulting, 2013)
- Flora and Vegetation Survey and Terrestrial Fauna Survey for the Pilbara Regional Waste Management Facility (Phoenix Environmental Sciences, 2017)
- Onslow Rare Earths Plant Fauna Assessment (Bamford Consulting Ecologists, 2021)
- Onslow Townsite Strategy Flora, Vegetation and Fauna Assessment (ENV Australia Pty Ltd., 2011)
- West Pilbara Iron Ore Project Onslow Rail Corridor Level 1 Fauna Assessment (Biota Environmental Sciences, 2008)
- West Pilbara Iron Ore Project Onslow Rail Corridor Terrestrial Fauna Survey (Biota Environmental Sciences, 2009).

### 3.1.2. Database Searches

Database searches were undertaken to compile a list of potential fauna and identify potential significant fauna within or surrounding the Survey Areas (Table 3, Appendix A). In addition, an EPBC Protected Matters Search (PMST) was undertaken to identify the potential for Matters of National Environmental Significance (MNES) to occur within or surrounding the Survey Area (Department of Agriculture Water and the Environment, 2021b).

The search area for each parameter was varied to reflect distances recommended by DBCA. The search areas are herein referred to collectively as the Study Area.



Table 3: Database Searches of the Study Area

Database Name	Date Received	Search Target	Buffer around the Survey Area
DBCA Threatened and Priority Fauna database search (Department of Biodiversity Conservation and Attractions, 2021b)	27 May 2020	Threatened and Priority Fauna	20 km buffer around the Survey Area
NatureMap (Department of Biodiversity Conservation and Attractions, 2021a)	13 July 2021	Threatened and Priority fauna, and inventory of potential fauna	20 km buffer around the Survey Area
Protected Matters Search Tool (Department of Agriculture Water and the Environment, 2021b)	13 July 2021	Commonwealth listed Threatened fauna	20 km buffer around the Survey Area

Shorebird records from eBird (Cornell Lab of Ornithology, 2022) and Birdata (Birdlife Australia, 2022) were used to gain a greater understanding of the temporal and spatial nature of shorebird sightings in and around the Survey Area. eBird and Birdata survey records within a 500 m buffer around the Survey Area were categorised by month recorded to determine how 'common' (monthly species record / monthly surveys) species were at different times of the year.

### 3.1.3. Likelihood of Occurrence

Significant fauna species identified from the desktop assessment were assessed to determine the likelihood of their occurrence within the Survey Area, both prior to and post field survey. The assessment was completed based on the likelihood of occurrence criteria presented in Table 4.

Only species recorded within the Survey Area or considered to have a high or medium likelihood of occurrence are discussed in detail. Species classified as having a low likelihood of occurrence based on the above criteria will not be discussed unless a justification for this classification is required.

For fauna, taxa listed as Marine only under the EPBC Act were not included as significant taxa because Marine only listed taxa do not constitute MNES under the EPBC Act, Marine only listed taxa identified by the desktop assessment and field survey were common and widespread, and the Survey Area does not contain any marine waters.



Table 4: Likelihood of Occurrence Criteria

Rank	Criteria
Previously Recorded	The species has been previously recorded in the Survey Area
High (Likely to occur)	<ul> <li>There are existing records of the species in close proximity to the Survey Area (within 10 km), and for fauna has been recorded in the Survey Area in the last 10 years</li> <li>The species is strongly linked to a specific habitat, which is present in the Survey Area; or</li> <li>The species has more general habitat preferences, and suitable habitat is present.</li> </ul>
Medium (May occur)	<ul> <li>There are existing records of the species from the locality         (between 10 km and 20 km), however:             <ul></ul></li></ul>
Low (Unlikely to occur)	<ul> <li>The species is linked to a specific habitat, which is absent from the Survey Area; or</li> <li>Suitable habitat is present, however there are no existing records of the species from the locality (within 20 km) despite reasonable previous search effort in suitable habitat; or</li> <li>There is some suitable habitat in the Survey Area, however the species is very infrequently recorded in the locality.</li> </ul>

# 3.2. Field Surveys

The detailed terrestrial fauna and shorebird survey was undertaken by Ecologists Poppy Walker and Simon Girando between 20 and 29 April 2022 (Table 5). Data were collected from two trap sites, one ultrasonic recorder, two camera traps, bird surveys, active foraging, and spotlighting.

**Table 5: Field Personnel** 

Personnel	Role	Fauna Taking Licence	
Poppy Walker	Ecologist Planning, fauna field work, data interpretation and report preparation.	Reg 27: BA27000575	
Simon Girando	Ecologist Planning, fauna field work, data interpretation and report preparation.	Reg 27: BA27000575	

### 3.2.1. Daily Survey Conditions

Survey conditions for the basic fauna survey are presented in Table 6. Daily temperature and rainfall data is from the Onslow Airport Weather Station (Station 5017) (Bureau of Meteorology, 2022). This information is important for potential detection of species diversity during a survey.





Table 6: Detailed Fauna Survey Weather Conditions (Bureau of Meteorology, 2022)

Data	Tempera	Deinfall (mm)	
Date	Min	Max	Rainfall (mm)
21/04/2022	24.2	35.3	0
22/04/2022	22	31.7	0
23/04/2022	20.7	35.2	0
24/04/2022	20.3	35.2	0
25/04/2022	20.6	32.0	0
26/04/2022	18.5	29.6	0
27/04/2022	20.9	27.7	2.2
28/04/2022	21.5	29.2	0

The closest Department of Transport tide gauge sensor station is Onslow - Beadon Creek (Station 62470; 115.131540, -21.649657), located approximately 2.7 km east southeast of the Survey Area (Department of Transport, 2022). Tide heights ranged from 0.64 m to 2.95 m, with a last quarter moon on the 23 April 2022 (Table 7). This information is important for potential detection of shorebird species during a survey.

Table 7. Detailed Fauna Survey Tidal Conditions (Department of Transport, 2022)

Date	Time	Tide (m)	Date	Time	Tide (m)
	01:59	2.49		05.24	4.07
24/04/22	06:56	1.10	25/04/22	05:31	1.87
21/04/22	13:53	2.95	25/04/22	11:02	1.67
	20:21	0.64		17:32	2.15
	02:34	2.33		00:54	1.31
22/04/22	07:17	1.21	26/04/22	07:35	1.98
22/04/22	14:25	2.80	26/04/22	13:24	1.61
	21:04	0.82		19:30	2.14
	03:13	2.14		02:22	1.25
23/04/22	07:34	1.34	27/04/22	09:11	2.19
23/04/22	14:57	2.59	27/04/22	14:53	1.40
	21:54	1.03		21:09	2.24
	04:01	1.97		03:18	1.17
24/04/22	08:04	1.50	29/04/22	10:00	2.43
24/04/22	15:40	2.35	28/04/22	15:57	1.18
	23:00	1.22		22:16	2.39



### 3.2.2. Fauna Habitat Assessment

Fauna habitat assessments were undertaken throughout the Survey Area to identify fauna habitat values. Habitat assessment locations are shown in Figure 3. The following information was collected at each site using Fulcrum, a mobile data collection app:

- Site photo
- Landform
- Soil type and colour
- Rock types, surface stone cover and size classes
- Key habitat and microhabitat features including leaf litter, logs, burrows, rocky outcrops, rock crevices, hollows, water sources
- Habitat quality, fire history and evidence of disturbance
- General description of vegetation structure.

Fauna habitat mapping was based on a combination of field observations, fauna habitat assessment data and vegetation mapping undertaken by 360 Environmental.

### 3.2.3. Trap Sites

Two trap sites were installed in the Survey Area within areas of suitable and representative habitat. Each trap site consisted of two individual replicate trap lines spaced 30 to 90 m apart to account for the possibility that fauna assemblages can be distributed unevenly within a given habitat. Individual trap lines were roughly 30 m long and comprised a 30 cm tall flywire drift fence passing over five pitfall traps (20 L buckets and 150 mm PVC pipes) with six funnel traps placed along the drift fence in pairs. A total of five Elliot traps were placed at each replicate trap line beneath vegetation and were checked within three hours of sunrise each morning. Elliot traps were closed during the day to avoid trap death in the heat of the day. A diagram of the trap site layout is provided in Plate 1.

Site selection was based on a review of available literature and aerial imagery, which indicated that one fauna habitat occurs within the Survey Area. Trap site locations are shown in Figure 3 and Table 8 shows the total trapping effort for each trap site and habitat type.

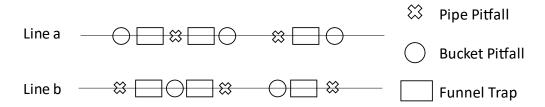


Plate 1: Trap Site Layout



**Table 8: Trap Site Trapping Effort** 

Habitat	Trap site	Number of nights open	Total pitfall trap nights	Total funnel trap nights	Total Elliot trap nights
Coastal Dunes	BBF1	7	70	84	70
Coastal Dunes	BBF2	7	70	84	70
Total	2 sites	14	140	168	140

### 3.2.4. Camera Traps

Two motion sensitive camera traps were set up during the detailed field survey. Site selection was based on suitable habitat features for fauna activity. Cameras were baited with universal bait (rolled oats, peanut butter and sardines). Table 9 shows the total trapping effort for camera traps, and locations are shown in Figure 3.

**Table 9: Camera Trap Trapping Effort** 

Fauna Habitat	Nearest trap site	No. of Cameras	Total camera trap nights
Coastal Dunes	BBF1	1	7
Coastal Dunes	BBF2	1	7
	Total	2 Camera traps	14

### 3.2.5. Autonomous Recording Units

An ultrasonic call ARU was used to target bats and audible call ARU was used to target the Pilbara Leaf-nosed Bat (*Rhinonicteris aurantia*) and Ghost Bat (*Macroderma gigas*). The units were moved periodically during the detailed field survey. All recording locations were within the Survey Area.

Table 10 outlines the total trapping effort for ARUs and locations are shown in Figure 3.

Table 10: ARU Trapping Effort

Fauna Habitat	Nearest trap site	No. of ARUs	Total ultrasonic trap nights
Coastal Dunes	BBF2	1	2
Coastal Dunes	BBF2	1	2
Coastal Dunes	BBF1	1	3
Total		3 ARUs	7



### 3.2.6. Opportunistic Observations and Active Searches

Opportunistic observations of fauna were recorded throughout the Survey Area. Observations of primary evidence (direct sightings, calls) and secondary evidence (tracks, scats, diggings etc.) were recorded. Active searches were undertaken in microhabitats likely to contain fauna. They primarily involved raking leaf litter, peeling bark, and splitting dead wood. Two nights of spotlighting was also undertaken within the Survey Area.

### 3.2.7. Bird Surveys

Systematic bird surveys were undertaken within the Survey Area for 20 minutes in a 2 ha quadrat (Environmental Protection Authority, 2016c) at each fauna habitat assessment location (at a minimum). Where practicable, this was undertaken during typical peak periods of activity when birds are calling and moving about, which is typically in the 3-4 hours after sunrise, particularly during warmer periods.

### 3.2.8. Shorebird Surveys

Shorebird surveys were undertaken from the Back Beach boardwalk and Back Beach shoreline. Surveys ranged from 10 to 50 minutes depending on bird numbers and tide conditions (Table 11). Shorebird surveys were undertaken at a range of times throughout the day to encompass various weather, time, and tide conditions.

Table 11: Shorebird Survey Effort and Tide Conditions (Beadon Creek, Station 62470) (Department of Transport, 2022)

Fauna Habitat	Site	Date, time	Tide (m) (rising, falling)	Effort	Total person hours
Beach	Bird_B1	23/4/22 16:05	2.61 (f)	2 people x 20min	0.66
Beach	Bird_B2	26/4/22 08:30	2.09 (f)	2 people x 50min	1.66
Beach	Bird_B3	28/4/22 16:10	1.24 (r)	2 people x 20min	0.66
Beach	Bird_B4	25/4/22 09:05	1.82 (f)	2 people x 20min	0.66
Beach, Coastal Dunes	Bird_D1	23/4/22 06:50 24/4/22 17:35 28/4/22 08:30	1.49 (f) 2.24 (f) 2.31 (r)	2 people x 10min 2 people x 10min 2 people x 10min	1.00
Beach, Coastal Dunes	Bird_D2	23/4/22 06:25 24/4/22 17:55 25/4/22 06:45 25/4/22 18:10 27/4/22 15:20 27/4/22 17:10 22/4/22 08:30 22/4/22 15:55	1.52 (f) 2.19 (f) 1.98 (f) 2.26 (f) 1.50 (r) 1.61 (r) 1.40 (r) 2.46 (f)	2 people x 10min 2 people x 20min 2 people x 20min 2 people x 20min	3.33
		1	Total	15 surveys	8.00



# 3.2.9. Identification and Taxonomy

Terrestrial vertebrate fauna taxa were identified in the field and released on site. Data captured by ARUs was analysed by bat specialist Robert Bullen from Bat Call WA.

Where there was doubt on a species name (through subsequent name changes or taxonomic reviews), an effort was made to determine the current scientific name for each taxon. Taxonomy and nomenclature in this report follows the WA Museum (WAM) checklist 2022 (Western Australian Museum, 2022) where relevant.



# 4. Results

# 4.1. Limitations

Limitations and constraints of the single-phase detailed vertebrate fauna survey are detailed below in Table 12. Despite the limitations identified the assessment is suitable to support approvals applications for the proposed actions within the Survey Area.

Table 12: Limitations and Constraints Associated with the Survey

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes						
Survey Scope	Limitation	A single-phase detailed vertebrate fauna survey was undertaken. The relevant EPA guidance (2020) recommends at least two survey phases for detailed surveys.						
Availability of Data	No limitation	All data required to complete the scope of works including regional and local contextual information was available.						
Site Access	No limitation	The Survey Area was able to be accessed by vehicle and on foot.						
Survey		The single-phase detailed vertebrate fauna survey consisted of two fauna trap sites, each consisting of two replicate trap lines (5 pitfalls, 6 funnels and 5 Elliot traps per trap line), in the single habitat type. All trap sites were active for seven nights.						
Intensity and Resources	No limitation	Active searches at each trap site, two spotlighting sessions, seven nights of ultrasonic recording (for bat detection), 14 days of camera trapping, and 8 hours of shorebird surveys were also conducted as part of the single-phase detailed vertebrate fauna survey.						
Experience	No limitation	The single-phase detailed vertebrate fauna survey was undertaken by Ecologists Poppy Walker and Simon Girando. The team has a combined experience of over 8 years conducting surveys of similar scope throughout Western Australia and the bioregion.						
		ARU data analysis was undertaken by Robert Bullen, WA's preeminent bat specialist.						
Timing, weather, season	Limitation	The recommended primary survey period for the region as per the EPA Technical Guidance, occurs between September and April for reptiles and any time of the year for mammals. For bird and amphibian species survey timing is recommended after significant rainfall events. There was a significant rainfall event of 61 mm three weeks prior to the survey.  While the single-phase detailed vertebrate fauna survey was in season for birds and reptiles, migratory birds and reptiles are unlikely to be readily observed during April. A second detailed vertebrate fauna survey may need to be carried out between November and January.						



Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
Life Forms Sampled	No limitation	The single-phase detailed vertebrate fauna survey used a wide range of detection techniques to detect fauna taxa within the Survey Area. All vertebrate fauna species were readily identified in the field.
Mapping Reliability	No limitation	Fauna habitat mapping was based on ground observations and vegetation mapping and there were no constraints on mapping reliability.
Disturbances (fire, flood etc.)	No limitation	No disturbances occurred during any of the surveys.  Areas of disturbance associated with access tracks, weeds, and litter were recorded but were not a constraint on the results of the survey.
Completeness	No limitation	The survey was considered complete for a single-phase detailed vertebrate fauna survey. All habitat types were surveyed and delineated within the Survey Area, with at least two trap sites within the habitat type.



### 4.2. Vertebrate Fauna

### 4.2.1. Desktop Assessment

The desktop assessment identified 58 significant terrestrial vertebrate fauna species potentially occurring within the Survey Area, comprising 46 birds, four mammals, and eight reptiles. These are discussed further in Section 4.2.4.

Key findings of the literature review are summarized below in Appendix B. Database search results are presented in Figure 4 and Appendix A.

### 4.2.2. Fauna Habitat

One broad fauna habitat was identified and mapped within the Survey Area (Figure 5). The Coastal Dunes Fauna Habitat was continuous throughout the Survey Area and is analogous with the Coastal Dunes vegetation type. The habitat quality was good throughout the Survey Area.

A description, extent within the Survey Area and a representative photo is provided for each fauna habitat in Table 13. Fauna habitat site sheets for each habitat assessment are shown in Appendix C.



Table 13: Fauna Habitat Type Descriptions with the Survey Area

Fauna Habitat	Total Area, Proportion of the Survey Area	Sites	Representative Photo
Coastal Dunes: Acacia coriacea subsp. coriacea and Acacia tetragonophylla (with Crotalaria cunninghamii subsp. sturtii) mid to low sparse shrubland over *Cenchrus ciliaris and Eulalia aurea low tussock grassland with Triodia epactia low sparse hummock grassland over Euphorbia myrtoides low sparse herbland.  Suitable good quality habitat for passerine birds (perching birds and songbirds). Suitable, but low-quality habitat for reptile and small mammal species due to the presence of cats and foxes, and alteration of understory structure by *Cenchrus ciliaris.	25 ha, 100%	BBF1, BBF2	



### 4.2.3. Fauna Assemblage

The single-phase detailed vertebrate fauna survey recorded a total of 61 fauna species from 36 families, summarised in Table 14. A full inventory of fauna species recorded during the field survey is provided in Appendix D.

Table 14: Overview of Vertebrate Fauna Species Recorded

Fauna group	Number of species	Number of families				
Birds	37	21				
Mammals	9	8				
Reptiles	15	7				
Amphibians	1	1				
Total	62	37				

### **Birds**

A total of 37 avian species from 21 families were recorded throughout the Survey Area. The most recorded species was the Silver Gull (*Larus novaehollandiae*), followed by the Greater Crested Tern (*Thalasseus bergii*) and the White-plumed Honeyeater (*Ptilotula penicillata*). The most speciose avifauna families were Meliphagidae (five taxa), Laridae (four taxa) and Maluridae (four taxa).

### **Mammals**

A total of three native non-volant (non-flying) mammal species from three families were recorded within the Survey Area. The most recorded native mammal species was the Spinifex hopping-mouse (*Notomys alexis alexis*).

A total of three native volant mammal species (bats) from three families were recorded throughout the Survey Area.

A total of three introduced mammal species were recorded in the Survey Area, the Cat (*Felis catus*), the House Mouse (*Mus musculus*), and the Red Fox (*Vulpes vulpes*).

### **Reptiles**

A total of 15 reptile species from seven families were recorded throughout the Survey Area. The most recorded species was *Lucasium stenodactylus* followed by the *Lerista onsloviana*. The most speciose reptilian families were Scincidae (five taxa) and Gekkonidae (three taxa).

One introduced reptile species was recorded in the Survey Area, the Asian House Gecko (*Hemidactylus frenatus*).

### **Amphibians**

One amphibian from one family was recorded during the survey, the Green Tree Frog (*Littoria caerulea*). While the Green Tree Frog is native to WA, they have been introduced to Onslow and are now prevalent around town (extralimital population; Chevron, 2015).



### 4.2.4. Significant Fauna

Direct sightings of four migratory bird species were recorded in areas directly surrounding the Survey Area (Figure 6).

- Caspian Tern (*Hydroprogne caspia*) IA (DBCA); MI, MA (EPBC)
- Common Sandpiper (Actitis hypoleucos) IA (DBCA); MI, MA (EPBC)
- Eastern Osprey (Pandion haliaetus cristatus) IA (DBCA); MI, MA (EPBC)
- Greater Crested Tern (*Thalasseus bergii*) IA (DBCA); MI, MA (EPBC).

No other significant fauna species (Threatened or Priority), or evidence of these species such as tracks, scats, nest, diggings, burrows were recorded within or directly surrounding the Survey Area.

The post survey results identified seven significant taxa as having a medium likelihood of occurrence within of the Survey Area:

- Barn Swallow (Hirundo rustica) IA (DBCA); MI, MA (EPBC)
- Common Tern (Sterna hirundo) IA (DBCA); MI, MA (EPBC)
- Greater Sand Plover (Charadrius leschenaultii) VU, IA (DBCA); VU, MI, MA (EPBC)
- Grey-tailed Tattler (Tringa brevipes) IA, P4 (DBCA); MI, MA (EPBC)
- Red-necked Stint (Calidris ruficollis) IA (DBCA); MI, MA (EPBC)
- Ruddy Turnstone (*Arenaria interpres*) IA (DBCA); MI, MA (EPBC)
- Sanderling (Calidris alba) IA (DBCA); MI, MA (EPBC).

A further 48 significant taxa were assessed as having a low likelihood of occurrence within the Survey Area. Further detail regarding recorded and potential significant fauna is provided below in Table 15.

While shorebirds may occur within the Survey Area, they are unlikely to rely on it for foraging or roosting activities, as more suitable habitat is found to the north, northwest and west of the Survey Area along the beach and tidal flats.

### 4.2.5. Shorebirds

eBird and Birdata records from 2000 to 2022 identified 25 listed migratory shorebird species as having occurred within 500m of the Survey Area (Appendix E).

Based on DBCA, eBird and Birdata records nine listed migratory shorebirds (in addition to those recorded during the Survey and those assessed as having a medium or high likelihood of occurrence within the Survey Area) were identified as likely to occur along the beach and tidal flats located 100 to 300 m northeast, north, northwest and west of the Survey Area:

- Bar-tailed Godwit (Limosa lapponica) IA (DBCA); MI, MA (EPBC)
- Common Greenshank (Tringa nebularia) IA (DBCA); MI, MA (EPBC)
- Far Eastern Curlew (Numenius madagascariensis) CR, IA (DBCA); CR, MI, MA (EPBC)



- Grey Plover (Pluvialis squatarola) IA (DBCA); MI, MA (EPBC)
- Gull-billed Tern (Gelochelidon nilotica) IA (DBCA); MI, MA (EPBC)
- Lesser Sand Plover (Charadrius mongolus) EN, IA (DBCA); EN, MI, MA (EPBC)
- Little Tern (Sternula albifrons) IA (DBCA); MI, MA (EPBC)
- Whimbrel (Numenius phaeopus) IA (DBCA); MI, MA (EPBC)
- White-winged Black Tern (Chlidonias leucopterus) IA (DBCA); MI, MA (EPBC).

Due to low DBCA, eBird and Birdata record numbers, the remaining five listed migratory shorebirds, were deemed to occur infrequently within the coastal areas adjacent to the Survey Area:

- Pacific Swift (Apus pacificus) IA (DBCA); MI, MA (EPBC)
- Sharp-tailed Sandpiper (Calidris acuminata) IA (DBCA); MI, MA (EPBC)
- Great Knot (Calidris tenuirostris) CR, IA (DBCA); CR, MI, MA (EPBC)
- Little Curlew (Numenius minutus) IA (DBCA); MI, MA (EPBC)
- Roseate Tern (Sterna dougallii) IA (DBCA); MI, MA (EPBC).



# **Table 15: Significant Fauna Likelihood of Occurrence**

				rvation atus			Source	:			
Family	Scientific Name	Common Name	State	Federal	Σ	PMST	DBCA	eBird/ Birdata	Field Survey	Likelihood of Occurrence	Justification
AVIAN											
Apodidae	Apus pacificus	Pacific Swift	IA	MI, MA	Х	х	х	х		Low	Six DBCA records within 20 km of the Survey Area, including 0.3 km east in 2008 and 9.1 km south in 2012. <sup>1</sup> May use habitats in Survey Area for foraging (low to very high airspace over varied habitat). <sup>2</sup>
Charadriidae	Charadrius leschenaultii	Greater Sand Plover	VU, IA	VU, MI, MA	X		х	х		Medium	72 DBCA records within 20 km of the Survey Area, including 0.2 km northeast in 2017 and 2016. <sup>1</sup> Suitable habitat exists adjacent to the Survey Area (tidal flats, beaches). <sup>3</sup>
	Charadrius mongolus	Lesser Sand Plover	EN, IA	EN, MI, MA	х		х	х		Low	Five DBCA records within 20 km of the Survey Area, including 0.2 km northeast in 2017 and 2015. <sup>1</sup> Suitable habitat exists adjacent to the Survey Area (tidal flats). <sup>3</sup>
	Charadrius veredus	Oriental Plover	IA	MI, MA	Х	Х	x			Low	Three DBCA records within 20 km of the Survey Area, including 16.9 km southwest in 2013 and 18.5 km south in 2015. No suitable habitat present in the Survey Area (grasslands, thinly vegetated plains). <sup>3</sup>
	Pluvialis squatarola	Grey Plover	IA	MI, MA	Х		Х	Х		Low	11 DBCA records within 20 km of the Survey Area, including 0.1 km east in 2006 and 0.2 km northeast in 2014.¹ Suitable habitat exists adjacent to the Survey Area (coastal, tidal flats).³
Falconidae	Falco hypoleucos	Grey Falcon	VU	VU		х				Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records. <sup>4</sup> No suitable habitat present in the Survey Area (open plains with treed watercourses in arid inland). <sup>3</sup>



				rvation atus			Source				
Family	Scientific Name	Common Name	State	Federal	Σ Σ	PMST	DBCA	eBird/ Birdata	Field Survey	Likelihood of Occurrence	Justification
Falconidae	Falco peregrinus	Peregrine Falcon	OS		х		х			Low	Four DBCA records within 20 km of the Survey Area, including 12.8 km and 13.3 southwest in 2017. No suitable habitat present in the Survey Area (most environments with suitable nest sites: cliff faces preferred, including man-made ones, commonly uses stick nests built by other species). May use the Survey Area for hunting.
Fregatidae	Fregata ariel	Lesser Frigatebird	IA	MI, MA		x				Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records. <sup>4</sup> No suitable habitat present in the Survey Area (oceanic). <sup>5</sup>
Glareolidae	Glareola maldivarum	Oriental Pratincole	IA	MI, MA	x	x	x			Low	Four DBCA records within 20 km of the Survey Area, including 12.3 km southwest in 2013 and 16.0 km south in 2017. Suitable habitat exists adjacent to the Survey Area (open plains, open areas around tidal flats, beaches, wetlands). <sup>2</sup>
Hirundinidae	Hirundo rustica	Barn Swallow	IA	MI, MA	х	х	х	Х		Medium	Ten DBCA records within 20 km of the Survey Area, including 0.2 km west in 2014 and 2015.¹ Suitable habitat exists adjacent to the Survey Area (coastal, wetlands).³ Forages over open country, often congregates in areas with high densities of flying insects.
Laridae	Anous stolidus	Common Noddy	IA	MI, MA		×				Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records. A No suitable habitat present in the Survey Area (oceanic).
	Chlidonias leucopterus	White-winged Black Tern	IA	MI, MA	×		×	×		Low	Two DBCA records within 20 km of the Survey Area, including 0.5 km east in 2008 and 12.5 km southwest in 2016. Suitable habitat exists adjacent to the Survey Area (fresh to saline wetlands. coastal, estuaries, freshwater lakes, swamps, salt lakes).



				rvation atus			Source	2			
Family	Scientific Name	Common Name	State	Federal	Σ	PMST	DBCA	eBird/ Birdata	Field Survey	Likelihood of Occurrence	Justification
Laridae	Gelochelidon nilotica	Gull-billed Tern	IA	MI, MA	Х		x	х		Low	Seven DBCA records within 20 km of the Survey Area, including 0.1 km east in 2006 and 10.3 km south in 2018. Suitable habitat exists adjacent to the Survey Area (coastal, estuaries, tidal creeks, salt lakes, freshwater swamps, lagoons, claypans). S
	Hydroprogne caspia	Caspian Tern	IA	MI, MA	х		х	х	х	Medium	Recorded outside of the Survey Area during the field survey. 65 DBCA records within 20 km of the Survey Area, including 0.06 km west and 0.2 km north in 2017. Suitable habitat occurs adjacent to the Survey Area (sheltered coastal waters, fresh to saline lakes, large rivers, temporary wetlands, estuaries, tidal creeks, near-coastal salt lakes, brackish pools). 3,5
	Onychoprion anaethetus	Bridled Tern	IA	MI, MA	X	х				Low	One ALA record within 10 km of the Survey Area, 4.1 km south in 2012. <sup>7</sup> No suitable habitat present in the Survey Area (tropical and subtropical seas). <sup>2</sup>
	Sterna dougallii	Roseate Tern	IA	MI, MA	Х	Х	x	x		Low	Four DBCA records within 20 km of the Survey Area, including 0.1 km east in 2006 and 0.2 km northeast in 2016. Suitable habitat exists adjacent to the Survey Area (tropical and subtropical seas and coastlines). <sup>2</sup>
	Sterna hirundo	Common Tern	IA	MI, MA	X		х	х		Medium	33 DBCA records within 20 km of the Survey Area, including 0.2 km northeast in 2017 and 2014. <sup>1</sup> Suitable habitat exists adjacent to the Survey Area (coastal, near-coastal saltworks, sewage ponds) <sup>5</sup>
	Sternula albifrons	Little Tern	IA	MI, MA	Х		х	х		Low	24 DBCA records within 20 km of the Survey Area, including 0.1 km east in 2006 and 0.2 km northeast in 2014. Suitable habitat exists adjacent to the Survey Area (sheltered coastal waters, beaches, sandbars, estuaries, mangroves, near-coastal saltworks). 3, 5



				rvation itus			Source	2			
Family	Scientific Name	Common Name	State	Federal	ΣN	PMST	DBCA	eBird/ Birdata	Field Survey	Likelihood of Occurrence	Justification
Laridae	Sternula nereis nereis		VU	VU		х	х			Low	One vouchered DBCA record within 20 km of the Survey Area, 0.7 km northeast in 1947.¹ Suitable habitat exists adjacent to the Survey Area (coastal, bays, inlets, beaches, salt ponds and lakes).²
	Thalasseus bergii	Greater Crested Tern	IA	MI, MA	Х		х	х	Х	Medium	Recorded outside of the Survey Area during the field survey. 33 DBCA records within 20 km of the Survey Area, including 0.06 km west in 2017 and 0.2 km northwest in 2015. Suitable habitat occurs adjacent to the Survey Area (coastal, beaches, bays, lagoons, salt ponds and lakes, estuaries, tidal creeks). Suitable ponds and lakes, estuaries, tidal creeks).
Motacillidae	Motacilla cinerea	Grey Wagtail	IA	MI, MA		х				Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records. <sup>4</sup> No suitable habitat present in the Survey Area (fresh sandy or rocky streams, mown grass, ploughed land, sewage ponds). <sup>2</sup>
	Motacilla tschutschensis	Yellow Wagtail	IA	MI, MA		х				Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records. <sup>4</sup> No suitable habitat present in the Survey Area (damp short grass flats, swamp edges, sewage ponds, mowed grass). <sup>5</sup>
Oceanitidae	Oceanites oceanicus	Wilson's Storm Petrel	IA	MI, MA	Х		х			Low	One DBCA records within 20 km of the Survey Area, 2.7 km 2013 in southeast. No suitable habitat present in the Survey Area (oceanic).
Pandionidae	Pandion haliaetus cristatus	Eastern Osprey	IA		Х		х	х	Х	Medium	Recorded outside of the Survey Area during the field survey. 41 DBCA records within 20 km of the Survey Area, including 0.2 km northeast in 2014 and 2013. Suitable habitat occurs adjacent to the Survey Area (beaches, coastal reaches of rivers and large inland waterbodies). 3



				rvation atus			Source	9			
Family	Scientific Name	Common Name	State	Federal	Σ Z	PMST	DBCA	eBird/ Birdata	Field Survey	Likelihood of Occurrence	Justification
Procellariidae	Ardenna pacifica	Wedge-tailed Shearwater	IA	MI, MA	Х		x			Low	Six DBCA records within 20 km of the Survey Area, including $2.4$ km east southeast in 2014 and $11.8$ km southwest in $2017.^1$ Known to breed on islands in the Onslow area. $^{12}$ No suitable habitat present in the Survey Area (oceanic). $^5$
	Calonectris leucomelas	Streaked Shearwater	IA	MI, MA		x				Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records. <sup>4</sup> No suitable habitat present in the Survey Area (oceanic). <sup>5</sup>
	Macronectes giganteus	Southern Giant Petrel	IA	EN, MI, MA		×				Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records. <sup>4</sup> No suitable habitat present in the Survey Area (southern oceans, bays, habours. <sup>3</sup>
Psittaculidae	Pezoporus occidentalis	Night Parrot	CR	EN	x	x	x			Low	One DBCA records within 20 km of the Survey Area, 0.9 km northeast in 1967 (spatially suspect). No suitable habitat present in the Survey Area (often to have been associated with spinifex, or among samphire bushes on margins of salt lakes). 2
Rostratulidae	Rostratula australis	Australian Painted Snipe	EN	EN, MA		х				Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records. <sup>4</sup> No suitable habitat present in the Survey Area (well vegetated surrounds and shallows of wetlands). <sup>2</sup>
Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	MI, MA	х	х	х	х	Х	Medium	Recorded outside of the Survey Area during the field survey. 31 DBCA records within 20 km of the Survey Area, including 0.05 km northeast in 2016 and 0.8 km southeast in 2017. <sup>1</sup> Suitable habitat occurs adjacent to the Survey Area (coastal and interior wetlands, narrow muddy edges of billabongs, river



	Scientific Name	Common Name	Conservation Status				Source	9			
Family			State	Federal	Σ	PMST	DBCA	eBird/ Birdata	Field Survey	Likelihood of Occurrence	Justification
											pools, mangroves, rocky beaches, estuaries, lagoons, claypans). <sup>2, 5</sup>
Scolopacidae	Arenaria interpres	Ruddy Turnstone	IA	MI, MA	Х		×	x		Medium	38 DBCA records within 20 km of the Survey Area, including 0.05 km north in 2016 and 0.2 km northeast in 2014. Suitable habitat exists adjacent to the Survey Area (coastal, tidal flats, beaches, rocky shorelines).
	Calidris acuminata	Sharp-tailed Sandpiper	IA	MI, MA	х	х	х	х		Low	Eight DBCA records within 20 km of the Survey Area, including 0.2 km southwest in 2011 and 13.9 km northeast in 2008. No suitable habitat present in the Survey Area (fresh and salt wetlands, muddy edges of lagoons, swamps, lakes, dams, soaks, sewage farms, temporary floodwaters). 2
	Calidris alba	Sanderling	IA	MI, MA	х		х	х		Medium	45 DBCA records within 20 km of the Survey Area, including 0.05 km north in 2016 and 0.2 km northeast in 2017. Suitable habitat exists adjacent to the Survey Area (beaches, sandy tidal flats).
	Calidris canutus	Red Knot	EN, IA	EN, MI, MA		х	х			Low	Two DBCA records within 20 km of the Survey Area, 19.0 km southwest in 1980. Suitable habitat exists adjacent to the Survey Area (coastal, extensive firm tidal flats).
	Calidris ferruginea	Curlew Sandpiper	CR, IA	CR, MI, MA	х	х	х			Low	Two DBCA records within 20 km of the Survey Area, 0.4 km east and 3.2 km southwest in 1980. Suitable habitat exists adjacent to the Survey Area (intertidal mudflats of estuaries, lagoons, mangrove channels, dams, floodwaters, flooded saltbush surrounds of inland lakes).
	Calidris melanotos	Pectoral Sandpiper	IA	MI, MA	Х	Х	х			Low	Three DBCA records within 20 km of the Survey Area, 18.5 km south in 2015.¹ No suitable habitat present in the Survey Area (coastal fresh to saline wetlands, inland permanent and temporary wetlands, mudflats, swamps with dense vegetation).²



	Scientific Name	Common Name	Conservation Status		Source						
Family			State	Federal	ΣN	PMST	DBCA	eBird/ Birdata	Field Survey	Likelihood of Occurrence	Justification
Scolopacidae	Calidris ruficollis	Red-necked Stint	IA	MI, MA	Х		х	х		Medium	51 DBCA records within 20 km of the Survey Area, including 0.2 km northeast in 2017 and 2014. <sup>1</sup> Suitable habitat exists adjacent to the Survey Area (mudflats, salt marshes, beaches, salt fields, temporary floodwaters). <sup>2</sup>
	Calidris tenuirostris	Great Knot	CR, IA	CR, MI, MA	Х		х	х		Low	Two DBCA records within 20 km of the Survey Area, 2.2 km east in 2009 and 13.9 km southwest in 2008. <sup>1</sup> Suitable habitat exists adjacent to the Survey Area (coastal, tidal flats, beaches). <sup>3</sup>
	Limosa lapponica / L. lapponica menzbieri	Bar-tailed Godwit	IA, (CR)	MI, MA, (CR)	Х	х	х	Х		Low	75 DBCA records within 20 km of the Survey Area, including 0.05 km north in 2016 and 0.2 km north in 2017. Suitable habitat exists adjacent to the Survey Area (coastal, tidal flats).
	Numenius madagascariensis	Far Eastern Curlew	CR, IA	CR, MI, MA	х	х	х	х		Low	24 DBCA records within 20 km of the Survey Area, including 0.1 km east in 2006 and 0.2 km northeast in 2014. <sup>1</sup> Suitable habitat exists adjacent to the Survey Area (coastal, tidal flats). <sup>3</sup>
	Numenius minutus	Little Curlew	IA	MI, MA	x		х	х		Low	Two DBCA records within 20 km of the Survey Area, including 0.05 km north in 2016 and 2.0 km south in 2003. No suitable habitat present in the Survey Area (dry grassland, plains and woodland of grassy understorey of clay and black soil plains).
	Numenius phaeopus	Whimbrel	IA	MI, MA	Х		х	х		Low	20 DBCA records within 20 km of the Survey Area, 0.1 km east in 2006 and 0.2 km northeast in 2014. <sup>1</sup> Suitable habitat exists adjacent to the Survey Area (coastal, tidal flats, mangroves). <sup>3</sup>
	Tringa brevipes	Grey-tailed Tattler	IA, P4	MI, MA	Х		х	х		Medium	49 DBCA records within 20 km of the Survey Area, including 0.05 km north in 2016 and 0.2 km northeast in 2017. Suitable habitat exists adjacent to the Survey Area (coastal, tidal flats, rocky shorelines).



	Scientific Name	Common Name	Conservation Status				Source				
Family			State	Federal	ΣZ	PMST	DBCA	eBird/ Birdata	Field Survey	Likelihood of Occurrence	Justification
Scolopacidae	Tringa glareola	Wood Sandpiper	IA	MI, MA	х		х			Low	One DBCA record within 20 km of the Survey Area, 13.9 km southwest in 2008. <sup>1</sup> No suitable habitat present in the Survey Area (freshwater wetlands with emergent sedges and taller fringing vegetation). <sup>3</sup>
	Tringa nebularia	Common Greenshank	IA	MI, MA	х	х	х	х		Low	18 DBCA records within 20 km of the Survey Area, including 0.1 km east in 2006 and 2.2 km east in 2019. Limited suitable habitat present in the Survey Area (permanent and temporary wetlands, billabongs, swamps, lakes, floodplains, sewage farms and salt works ponds, flooded irrigated crops, mudflats, mangrove swamps, muddy shallows of lagoons). 2
Threskiornithidae	Plegadis falcinellus	Glossy Ibis	IA	MI, MA	Х		Х			Low	Two DBCA records within 20 km of the Survey Area, 17.3 km southwest in 2015. No suitable habitat present in the Survey Area (Shallow, fresh water, and estuarine waters, dry grasslands).
MAMMALIAN  Dasyuridae	Dasyurus hallucatus	Northern Quoll	EN	EN	Х	Х	Х			Low	Five DBCA records within 20 km of the Survey Area, including 0.1 km east in 2012 and 11.1 km southwest in 2017. No suitable habitat present in the Survey Area (rocky escarpments, Eucalypt forest and woodland).
Muridae	Leggadina Iakedownensis	Short-tailed Mouse	P4		х		х			Low	58 DBCA records within 20 km of the Survey Area, including 11.1 km southwest in 2016 and 11.3 km south in 2003.¹ Limited suitable habitat present in the Survey Area (monsoon tropical coast to semiarid areas; spinifex and tussock grasslands, samphire, sedgelands, Acacia shrublands, tropical Eucalyptus and Melaleuca woodlands, stony ranges).8
Muridae	Pseudomys chapmani	Western Pebble-mound Mouse	P4		Х		Х			Low	One DBCA record within 20 km of the Survey Area, 16.5 km south in 2005.¹ No suitable habitat present



				rvation atus			Source	9			
Family	Scientific Name	Common Name	State	Federal	ΣΖ	PMST	DBCA	eBird/ Birdata	Field Survey	Likelihood of Occurrence	Justification
											in the Survey Area (gentler slopes of rocky ranges covered by stony mulch and hard spinifex).8
Rhinonycteridae	Rhinonicteris aurantia Pilbara form	Pilbara Leaf-nosed Bat	VU	VU		х				Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records. Ano suitable habitat present in the Survey Area (gorges and gullies, often over pools; spinifex hummock grasslands).
REPTILIAN		1	1	1		1	1		1		
Cheloniidae	Caretta caretta	Loggerhead Turtle	EN	EN, MI, MA	Х	Х	Х			Low	14 DBCA records within 20 km of the Survey Area, including 2.2 km east in 2015 and 8.7 km west in 2014. No breeding stocks are known from the Onslow townsite. 9
	Chelonia mydas	Green Turtle	VU	VU, MI, MA	Х	х	Х			Low	41 DBCA records within 20 km of the Survey Area, including 1.0 km northeast in 2013 and 2.0 km north in 2014. No breeding stocks are known from the Onslow townsite. 9
	Eretmochelys imbricata	Hawksbill Turtle	VU	VU, MI, MA	Х	Х	Х			Low	One DBCA record within 20 km of the Survey Area, 5.2 km west in 2013. No breeding stocks are known from the Onslow townsite. 9
	Lepidochelys olivacea	Olive Ridley Turtle	EN	EN, MI, MA	Х					Low	No ALA records within 10 km of the Survey Area. <sup>7</sup> No breeding stocks are known from the Onslow townsite. <sup>9</sup>
	Natator depressus	Flatback Turtle	VU	VU, MI, MA	Х	Х	х			Low	189 DBCA records within 20 km of the Survey Area, including 1.8 km northwest in 2013 and 5.3 km southwest in 2017. No breeding stocks are known from the Onslow townsite.
Crocodylidae	Crocodylus porosus	Saltwater Crocodile	OS	MI, MA	х		х			Low	Two DBCA records within 20 km of the Survey Area, including 2.4 km east in 2014 and 13.9 km southwest in 2008. Outside normal range. No suitable habitat present in the Survey Area (coastal

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				rvation itus		:	Source	:				
Family	Scientific Name	Common Name	State	Federal	Σ	PMST	DBCA	eBird/ Birdata	Field Survey	Likelihood of Occurrence	Justification	
											waters, estuaries, lakes, inland swamps and marshes). <sup>10</sup>	
Dermochelyidae	Dermochelys coriacea	Leatherback Turtle	VU	EN, MI, MA		х				Low	No nearby records identified from the database searches or literature. Only returned by PMST which searches by modelled distribution, not actual records. <sup>4</sup> No breeding stocks are known from the Onslow townsite. <sup>9</sup>	
Scincidae	Lerista planiventralis maryani		P1		Х		Х			Low	One vouchered DBCA record within 20 km of the Survey Area, 0.7 km northeast in 1990.¹ Suitable habitat present in the Survey Area (coastal sandy areas between Onslow and Barradale).¹¹	

<sup>1 (</sup>Department of Biodiversity Conservation and Attractions, 2021), 2 (Morcombe, 2003), 3 (Menkhorst *et al.*, 2017), 4 (Department of Agriculture Water and the Environment, 2021a), 5 (Johnstone and Storr, 1998), 6 (Van Dyck and Strahan, 2008), 7 (ALA, 2022), 8 (Dyck, Gynther and Baker, 2013), 9 (Department of the Environment and Energy, 2017), 10 (Department of Sustainability Environment Water Population and Communities, 2012)

360 Environmental Pty Ltd 29



#### 5. Discussion

#### 5.1. Vertebrate Fauna

One broad fauna habitat was observed within the Survey Area comprising Coastal Dunes. The Coastal Dunes habitat contains limited microhabitat opportunities and is of low value to most significant fauna species and overall fauna assemblages that occur in the broader area.

The relatively uniform landform means that the findings of the report are sufficient to inform impact assessment across the project area. Clearing of vegetation within the Survey Area may indirectly impact fauna species that utilise coastal habitats adjacent to the Survey Area.

The level of survey detail undertaken is consistent with the requirements of a single-phase detailed vertebrate fauna survey. However, a migratory shorebird survey undertaken in April is unlikely to have recorded the full suite of migratory bird species that visit Onslow each year.

The Survey Area falls within mapped Biologically Important Areas for the Lesser Crested Tem (breeding), Wedge-tailed Shearwater (breeding, foraging), Flatback Turtles (nesting), and Hawksbill Turtles (internesting). The Survey Area also falls within mapped Habitat Critical for Flatback Turtles (nesting), Green Turtles (nesting) and Hawksbill Turtles (nesting) (Department of Agriculture Water and the Environment, 2021a).

One significant fauna species, *Lerista planiventralis maryani* (P1), utilises dune habitat in the bioregion and records indicate that it historically occurred within 1 km of the Survey Area. However, the survey did not identify its presence within the Survey Area.

#### 5.1.1. Shorebirds

The surrounding coastal environment of Onslow is characterised by extensive areas of coastal intertidal sand flats and tidal creeks and inlets that are known to support migratory shorebirds. These areas can be further classified into the following wetland types (BirdLife Australia, 2020):

- A7 intertidal mud, sand or salt flats
- A8 intertidal marshes, including saltmarshes, salt meadows, saltings, raised saltmarshes, tidal brackish and freshwater marshes
- A9 intertidal forested wetlands, including mangrove swamps, nipa swamps, tidal freshwater swamp forests
- C4 salt exploitation (salt pans, salinas).

There are several high-tide roosting areas for shorebirds, as well as significant areas of supratidal claypan, however, most of these systems have been modified to control tidal inundation for the production of salt. A vast natural flat area from the southwest to the east of Onslow was enclosed with sea wall levees to create a salt field. Like other expansive salt evaporation facilities in the Pilbara region, the site continues to be a major migration stop-over area for shorebirds in the East Asia-Australasian Flyway (BirdLife Australia, 2020).

Thirty-four species of seabird listed as Threatened, Migratory and/or Marine under the EPBC Act are known to occur regularly in the North-west Marine Region; another seven listed species may



infrequently occur (Department of Sustainability Environment Water Population and Communities, 2012b)

Shorebirds, including significant species, may occur within the Survey Area, however, these species are highly mobile and are unlikely to rely on the Survey Area for foraging or roosting habitat, as more suitable habitat is found 100 m to 300 m to the northeast, north, northwest, and west of the Survey Area along the beach and tidal flats.

#### 5.1.2. Significant Fauna

#### 5.1.2.1. Recorded

The following four significant species were recorded inside, or within 300 m of the Survey Area.

#### Caspian Tern (Hydroprogne caspia) – IA (DBCA); MI, MA (EPBC)

The Caspian Tern is mostly found in sheltered coastal embayments, on near-coastal or inland terrestrial wetlands, lakes, waterholes, reservoirs, rivers and creeks. The Caspian Tern usually forages in open wetlands, including lakes and rivers. They often prefer sheltered shallow water near the margins, but can also be found in open coastal waters. In coastal inlets, they may prefer to forage in tidal channels, or over submerged mudbanks (Higgins, 1999). In Western Australia the Caspian Tern is widespread in coastal regions, from the Great Australian Bight to the Dampier Peninsula, and breeding occurs from the Recherche Archipelago to Dirk Hartog Island and Faure Island in Shark Bay, from around Point Cloates to North Turtle Island in the Pilbara, and more rarely, in the Kimberley (Higgins, 1999; Chatto, 2001).

Caspian Terns are found in the Pilbara year-round with the majority of sightings in Onslow occurring from September to May and breeding in the Pilbara occurring from March to November (Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

Caspian Terns were observed utilising the beach and tidal flat habitats adjacent to the Survey Area.

#### Common Sandpiper (Actitis hypoleucos) – IA (DBCA); MI, MA (EPBC)

The Common Sandpiper is typically carnivorous, feeding on molluscs, crustaceans, and a variety of insects. It is a migratory species that uses varied coastal and interior wetlands including narrow muddy edges of billabongs, river pools, mangroves, among rocks and snags, reefs or rocky beaches (Morcombe, 2003). It migrates from mid-northern latitudes of Asia (Menkhorst *et al.*, 2017) and has a broad breeding distribution from western Europe to eastem Russia (Pizzey and Knight, 2001; Bamford *et al.*, 2008).

Common Sandpipers are found in the Pilbara from July to May with the majority of sightings in Onslow occurring from September to February (Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

Common Sandpipers were observed utilising the beach and tidal flat habitats adjacent to the Survey Area.



#### Eastern Osprey (Pandion haliaetus cristatus) – IA (DBCA); MI, MA (EPBC)

The Eastern Osprey is considered to be moderately common in Australia (Olsen, 1998). The species is most abundant in northern Australia, where high population densities occur in remote areas (Johnstone and Storr, 1998). They require extensive areas of open fresh, brackish, or saline water for foraging (Marchant and Higgins, 1993). They are mostly found in coastal areas but occasionally travel inland along major rivers, particularly in northern Australia (Olsen, 1995; Johnstone and Storr, 1998). They frequent a variety of wetland habitats including inshore waters, reefs, bays, coastal cliffs, beaches, estuaries, mangrove swamps, broad rivers, reservoirs, and large lakes and waterholes (Olsen, 1995; Johnstone and Storr, 1998).

Eastern Ospreys are found in the Pilbara year-round with the majority of sightings in Onslow occurring from July to November and breeding in the Pilbara occurring from June to September (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

A pair of Eastern Ospreys have an established nest on the communication tower located on Simpson St, Onslow (~200 m from the Survey Area), and during the survey the pair were seen perched on the pole at Lookout Point (~40 m from the Survey Area), collecting nesting materials, and hunting over the Survey Area.

#### Greater Crested Tern (Thalasseus bergii) – IA (DBCA); MI, MA (EPBC)

The Greater Crested Tern inhabits tropical and subtropical coastlines, and forages in the shallow waters of lagoons, coral reefs, bays, harbours, inlets, and estuaries; along sandy, rocky, coral or muddy shores; on rocky outcrops in open sea; in mangrove swamps; and in offshore and pelagic waters (Higgins and Davies, 1996). Its diet consists predominantly of pelagic fish 10–50 millimetres long, although the species will also take cephalopods, crustaceans, insects and hatchling turtles opportunistically (BirdLife International, 2022). The species shows a preference for nesting on offshore islands, low-lying coral reefs, sandy or rocky coastal islets, coastal spits, and lagoon mudflats (Department of Sustainability Environment Water Population and Communities, 2012a; BirdLife International, 2022).

Greater Crested Terns are found in the Pilbara year-round with the majority of sightings in Onslow occurring from January to June and breeding in the Pilbara occurring from March to June (Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

Greater Crested Terns were observed utilising the beach and tidal flat habitats adjacent to the Survey Area.



#### 5.1.2.2. Medium Likelihood

#### Barn Swallow (Hirundo rustica) – IA (DBCA); MI, MA (EPBC)

The Barn Swallow is a casual visitor primarily to coastal areas from the Gascoyne north, although the species may appear as a vagrant in inland areas on an irregular basis (Johnstone and Storr, 1998). After breeding in the temperate and subtropical regions of North America, Europe, northern Africa, and Asia it migrates to the southern hemisphere where it spends the boreal winter (Johnstone and Storr, 1998). It is typically observed in the vicinity of urban water bodies and coastal wetlands.

The majority of Barn Swallow sightings in Onslow occurred from November to February (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Common Tern (Sterna hirundo) – IA (DBCA); MI, MA (EPBC)

The Common Tern is a non-breeding migrant to Australia, where it is widespread and common on the eastern coast south to eastern Victoria, and common on parts of the northern coast. Common Terns arrive in north-western and northern Australia from late August, with some moving south along the western coast, however, the species is rarely recorded south of approximately 30° S (Higgins and Davies, 1996; Chatto, 2006; Department of Agriculture Water and the Environment, 2021c).

Common Terns are typically gregarious, roosting and foraging in small flocks. In Australia, they are recorded in all marine zones, but are commonly observed in near-coastal waters, both on ocean beaches, platforms, and headlands, and in sheltered waters, such as bays, harbours and estuaries with muddy, sandy or rocky shores. Occasionally they are recorded in coastal and near-coastal wetlands, either saline or freshwater, including lagoons, rivers, lakes, swamps, and saltworks. Sometimes they occur in mangroves or saltmarsh and, in bad weather, in coastal sand-dunes, or coastal embayments (Higgins and Davies, 1996; Chatto, 2006; Department of Agriculture Water and the Environment, 2021c).

Common Terns are found in the Pilbara August to May with the majority of sightings in Onslow occurring from November to March (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Greater Sand Plover (Charadrius leschenaultii) – VU, IA (DBCA); VU, MI, MA (EPBC)

There are three sub-species of the Greater Sand Plover but only *Charadrius leschenaultii leschenaultii occurs* in Australia, which breeds in western China, Mongolia, and southern Russia and spends the non-breeding season in Australasia, south-east Asia and the Indian subcontinent (Bamford *et al.*, 2008; Threatened Species Scientific Committee, 2016a). In Western Australia, Greater Sand Plovers are especially widespread between North West Cape and Roebuck Bay and also occasionally recorded along the coast of southern Western Australia (Threatened Species Scientific Committee, 2016a). Greater Sand Plovers are present in the North-west Marine Region in internationally significant numbers at Ashmore Reef between December and February (Bamford *et al.*, 2008; Department of Sustainability Environment Water Population and Communities, 2012b).



In the non-breeding grounds in Australasia, Greater Sand Plovers are almost entirely coastal, inhabiting littoral and estuarine habitats. They mainly occur on sheltered sandy, shelly or muddy beaches, large intertidal mudflats, sandbanks, salt-marshes, estuaries, coral reefs, rocky islands rock platforms, tidal lagoons, and dunes near the coast. Greater Sand Plovers usually feed on molluscs, worms, crustaceans, and insects from the surface of wet sand or mud on open intertidal flats of sheltered embayments, lagoons or estuaries and roost on sand-spits and banks on beaches or in tidal lagoons (Marchant and Higgins, 1993; Threatened Species Scientific Committee, 2016a; BirdLife International, 2022).

Greater Sand Plovers are found in the Pilbara July to April with the majority of sightings in Onslow occurring from September to March (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Grey-tailed Tattler (*Tringa brevipes*) – IA, P4 (DBCA); MI, MA (EPBC)

The global population of Grey-tailed Tattlers is confined to the East Asian — Australasian Flyway, with more than 90% of the global population present in Australia during the non-breeding period (Bamford *et al.*, 2008). They are distributed around much of the Australian coastline and are widespread from Houtman Abrolhos and the mainland adjacent to the Kimberley Division, where they roost at high tide in vegetation or on artificial structures. Grey-tailed Tattlers are present in the North-west Marine Region in internationally-significant numbers at Ashmore Reef between September and March (Higgins and Davies, 1996; Bamford *et al.*, 2008; Department of Sustainability Environment Water Population and Communities, 2012b).

The diet of the Grey-tailed Tattler consists primarily of polychaete worms, molluscs, crustaceans, insects, and fish. The Grey-tailed Tattler is often found on sheltered coasts with reefs and rock platforms or with intertidal mudflats. It can also be found at intertidal rocky, coral or stony reefs as well as platforms, and islets that are exposed at low tide. They forage in shallow water, on hard intertidal substrates, such as reefs and rock platforms, in rock pools, and among rocks and coral rubble. The Grey-tailed Tattler usually roosts in the branches of mangroves or, rarely, in dense stands of other shrubs, or on snags or driftwood (Higgins and Davies, 1996; Department of Agriculture Water and the Environment, 2021c).

Grey-tailed Tattlers are found in the Pilbara from August to April with the majority of sightings in Onslow occurring from October to March (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Red-necked Stint (Calidris ruficollis) – IA (DBCA); MI, MA (EPBC)

The global population of Red-necked Stints is confined to the East Asian - Australasian Flyway, with more than 80% of the global population present in Australia during the non-breeding period. The northwest of Australia is an important area for the species on their migration from the northwest to the southeast of Australia (Bamford *et al.*, 2008). Red-necked Stints are present in the North-west Marine Region in nationally-significant numbers at Ashmore Reef between September and March (Bamford *et al.*, 2008; Department of Sustainability Environment Water Population and Communities, 2012b). Red-necked Stints are found in coastal and inland areas, including tidal flats, brackish and freshwater wetlands, and beaches (Menkhorst *et al.*, 2017).



Red-necked Stints are found in the Pilbara from August to April with the majority of sightings in Onslow occurring from October to March (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Ruddy Turnstone (Arenaria interpres) – IA (DBCA); MI, MA (EPBC)

Ruddy Turnstones breed in the high Arctic tundra in Siberia and Alaska, before migrating southwards into Australia, the northwest of Australia is used extensively on their northward migration (Geering, Agnewand Harding, 2007). Ruddy Turnstones are present in the North-west Marine Region in internationally-significant numbers at Ashmore Reef between August and May (Bamford *et al.*, 2008; Department of Sustainability Environment Water Population and Communities, 2012b). Ruddy Turnstones are found in a broad range of coastal habitats, including tidal flats, beaches, and rocky shorelines (Menkhorst *et al.*, 2017).

Ruddy Turnstones are found in the Pilbara from August to April with the majority of sightings in Onslow occurring from November to March (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Sanderling (Calidris alba) – IA (DBCA); MI, MA (EPBC)

Sanderlings breed in the high Arctic tundra of Asia and North America, before some populations migrating southwards into Australia, the northwest of Australia is used extensively on their northward migration (Bamford *et al.*, 2008). Less than 10% of the global population of sanderling is present in the East Asian - Australasian Flyway with the remainder of the population present in Europe, Africa, and the Americas. They are among the smallest species of migratory shorebirds found in the North-west Marine Region and are present in internationally-significant numbers at Ashmore Reef during the non-breeding period between December and February (Bamford *et al.*, 2008; Department of Sustainability Environment Water Population and Communities, 2012b). In Australia, Sanderlings are seen on oceanic beaches and sandy tidal flats (Menkhorst *et al.*, 2017).

Sanderlings are found in the Pilbara from August to May with the majority of sightings in Onslow occurring from October to March (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).



#### 5.1.2.4. Shorebirds

An additional nine shorebirds are likely to use habitat within 500m of the Survey Area. The following species have all been recorded within 500m of the Survey Area by DBCA, eBird and/or Birdata in the last 22 years.

#### Bar-tailed Godwit (Limosa lapponica) – IA (DBCA); MI, MA (EPBC)

Two sub-species of the Bar-tailed Godwit are recognised, with both occurring within Australia, but only *L. l. menzbieri* (DBCA: CR, IA; EPBC: CR, MI, MA) occurs within the North-west Marine Region (Bamford *et al.*, 2008). Birds of this subspecies breed in northern Siberia and Russia before migrating to south-eastern Asia and the north of Western Australia. Bar-tailed Godwits are present in the North-west Marine Region in internationally-significant numbers at Ashmore Reef between September and March (Bamford *et al.*, 2008; Department of Sustainability Environment Water Population and Communities, 2012b). Bar-tailed Godwits are primarily found on inter-tidal mudflats and rarely far from the coast when they reach the Australian mainland. They have been reported from much of Australia's coast feeding in shallow water and exposed mudflats (Menkhorst *et al.*, 2017).

Bar-tailed Godwits are found in the Pilbara from August to April with the majority of sightings in Onslow occurring from October to March (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Common Greenshank (*Tringa nebularia*) – IA (DBCA); MI, MA (EPBC)

Common Greenshanks typically breed in the boreal forest zone from sea level to 1200 m in Norway and are a migratory species to Australia (BirdLife International, 2022). Common Greenshanks are present in the North-west Marine Region in internationally-significant numbers, with approximately 1% of the flyway population visiting Ashmore Reef between September and March (Bamford et al., 2008; Department of Sustainability Environment Water Population and Communities, 2012b). The species is found in coastal areas, river banks, and coastal to freshwater wetlands, where it wades in shallow water foraging for prey, often lunging or probing for fish and invertebrates (Pizzey and Knight, 2001; Menkhorst et al., 2017; BirdLife International, 2022).

Common Greenshanks are found in the Pilbara from August to April with the majority of sightings in Onslow occurring from September to January (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Far Eastern Curlew (Numenius madagascariensis) – CR, IA (DBCA); CR, MI, MA (EPBC)

The Far Eastern Curlew is endemic to the East Asian – Australasian Flyway, with an estimated 28 000 individuals (73% of individuals) spending the non-breeding season in Australia. In northwest Australia, the maximum arrival was recorded between mid-August and the end of August. In Australia, most eastern curlews leave between late February and March-April (Marchant and Higgins, 1993; Threatened Species Scientific Committee, 2015).



In Australia, the Far Eastern Curlew uses coastal habitats, including sheltered coasts, estuaries, bays, harbours, inlets, beaches, and coastal lagoons with large intertidal mudflats or sandflats. They are also found on coastal saltworks, sewage farms, saltmarsh, and on mudflats fringed by mangroves. Far Eastern Curlews forage for crustaceans, small molluscs, and some insects on soft sheltered intertidal sandflats or mudflats, on salt flats, and in saltmarsh, rockpools, and among rubble on coral reefs, and on ocean beaches near the tideline. During high tide periods, they roost on sandy spits, sandbars, and islets, especially on beach sand near the high-water mark, and among coastal vegetation including low saltmarsh or mangroves. (Marchant and Higgins, 1993; Threatened Species Scientific Committee, 2015).

Far Eastern Curlews are found in the Pilbara from July to April with the majority of sightings in Onslow occurring from September to January and breeding occurring in Russian and north-east China (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Grey Plover (Pluvialis squatarola) - IA (DBCA); MI, MA (EPBC)

Grey Plovers are medium-sized migratory shorebirds that breed in Alaska and the northem Siberian tundra and migrate at the start of the Southern Hemisphere summer to many coastal areas of Australia. They arrive in northern Australia in August and early September, and depart in March and April (Department of Agriculture Water and the Environment, 2021c).

In Australia, Grey Plovers occur almost entirely in coastal areas, including sheltered embayments, estuaries and lagoons with mudflats and sandflats, reef-flats, near-coastal lakes, swamps, and salt-lakes. The species is also very occasionally recorded further inland, where they occur around wetlands or salt-lakes (Marchant and Higgins, 1993). Grey Plovers usually forage for molluscs, insects, polychaete worms, and crustaceans on large areas of exposed mudflats and beaches of sheltered coastal shores such as inlets, estuaries, and lagoons (Marchant and Higgins, 1993; Department of Agriculture Water and the Environment, 2021c). They usually roost in sandy areas, such as on unvegetated sandbanks or sand-spits on sheltered beaches or other sheltered environments such as estuaries or lagoons (Department of Agriculture Water and the Environment, 2021c).

Grey Plovers are found in the Pilbara from August to March with the majority of sightings in Onslow occurring from September to February (Barrett *et al.*, 2003; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Gull-billed Tern (Gelochelidon nilotica) – IA (DBCA); MI, MA (EPBC))

In Australia Gull-billed Terns inhabit estuaries, saltpans, lagoons, and saltmarshes and inland sites such as large rivers, lakes, rice-fields, sewage ponds, reservoirs, saltpans, and irrigation canals. Gull-billed Terns forage on the wing over shallow waters and grassy plains for crabs, prawns, flying insects, frogs, lizard, and mice (Johnstone and Storr, 1998; Menkhorst *et al.*, 2017; BirdLife International, 2022).

The majority of Gull-billed Tern sightings in Onslow occur from November to January (Barrett *et al.*, 2003; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).



#### Lesser Sand Plover (Charadrius mongolus) – EN, IA (DBCA); EN, MI, MA (EPBC)

Four of the five Lesser Sand Plover subspecies occur in the East Asian-Australasian Flyway, however, only two of these subspecies, *C. m. mongolus* and *C. m. stegmanni*, occur in Australia during the non-breeding season (Bamford *et al.*, 2008). The Lesser Sand Plover breeds in the northern hemisphere and undertakes annual migrations to and from southern feeding grounds. They are present at non-breeding grounds in Australasia mostly between September and April/May, with greatest numbers occurring in northern Australia (Marchant and Higgins, 1993; Threatened Species Scientific Committee, 2016b).

In Australia, Lesser Sand Plovers are almost strictly coastal, preferring sandy beaches, mudflats of coastal bays and estuaries, sand-flats, mangrove mudflats, and dunes near the coast (Menkhorst *et al.*, 2017; BirdLife International, 2022). They forage for insects, crustaceans, molluscs, and polychaete worms on extensive, freshly-exposed areas of intertidal sandflats and mudflats in estuaries or beaches, or in shallow ponds in saltworks (Marchant and Higgins, 1993; Garnett, Szabo and Dutson, 2011; BirdLife International, 2022). The Lesser Sand Plover roosts near foraging areas, on beaches, banks, spits, and banks of sand or shells and occasionally on rocky spits, islets or reefs (Marchant and Higgins, 1993).

Lesser Sand Plovers are found in the Pilbara from August to May with the majority of sightings in Onslow occurring from September to November (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Little Tern (Sternula albifrons) – IA (DBCA); MI, MA (EPBC)

There are three subspecies of Little Terns, with three subpopulations of the western Pacific *S. a. sinensis* occurring in Australia. Two subpopulations occur in the North-west Marine Region: a northern Australian breeding subpopulation, which occurs around Broome and extends into the North Marine Region across the Gulf of Carpentaria to the east coast of Cape York Peninsula; and an east Asian breeding subpopulation of which some birds migrate to the north Australian coast between Shark Bay and south-eastern Queensland during the austral summer (Garnett, Szabo and Dutson, 2011). The east Asian breeding subpopulation is thought to be sexually isolated from the northern Australian breeding subpopulation (Department of Sustainability Environment Water Population and Communities, 2012b).

The Little Tern is commonly seen in sandy coastal habitats and in mangrove-mudflat habitats along the coast, or in bays and estuaries, generally within 1 km of the coast (Chatto, 2001; Department of Sustainability Environment Water Population and Communities, 2012a). Little Terns usually forage for small fish, crustaceans, insects, worms, and molluscs close to breeding colonies in the shallow water of estuaries, coastal lagoons, and lakes (Higgins and Davies, 1996; Department of Sustainability Environment Water Population and Communities, 2012b).



The majority of Little Tern sightings in Onslow occur from November to February and breeding occurs in the Pilbara from April to early January, with the main periods being late April and July and September and early January (Chatto, 2001; Department of Sustainability Environment Water Population and Communities, 2012a; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### Whimbrel (Numenius phaeopus) – IA (DBCA); MI, MA (EPBC)

Whimbrels are widely distributed with six recognised subspecies, however, only *N. p. variegatus* occurs within Australia. Whimbrels breed at high latitudes in the Arctic and have a circum-polar breeding distribution. Whimbrels appear to migrate southward into Australia via northem Australia. Whimbrels are present in the North-west Marine Region in nationally-significant numbers at Ashmore Reef between September and March. They are typically found in open coastal estuarine mudflats and mangroves in northern Australia and feed on crustaceans (Bamford *et al.*, 2008; Department of Sustainability Environment Water Population and Communities, 2012b).

Whimbrels are found in the Pilbara from August to April with the majority of sightings in Onslow occurring from October to March (Barrett *et al.*, 2003; Department of Biodiversity Conservation and Attractions, 2017; Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).

#### White-winged Black Tern (Chlidonias leucopterus) – IA (DBCA); MI, MA (EPBC)

The White-winged Black Tern is a non-breeding migrant to Australia, often arriving in October and departing between March and May, where it is widespread and common along southwestern, northern and central-eastern coasts. In Australia, the White-winged Black Tern mostly inhabits fresh, brackish, and coastal or subcoastal wetlands, tidal mudflats, harbours, bays, estuaries, lagoons, saltworks, and sewage works (Higgins and Davies, 1996; Johnstone and Storr, 1998; Chatto, 2006; Menkhorst *et al.*, 2017; Department of Agriculture Water and the Environment, 2021c).

The White-winged Black Tern mainly forages aerially, over water or over muddy or sandy edges of wetlands; and also forages over land adjacent to wetlands, especially if inundated, including rice paddies and dry paddocks and grassland (Higgins and Davies, 1996; Johnstone and Storr, 1998). The species often roosts at the edges of wetlands, sandflats, mudflats, beaches, spits, banks, islets, and rocks but also often on emergent branches of submerged trees or piles and posts (Higgins and Davies, 1996; Department of Agriculture Water and the Environment, 2021c)

The majority of White-winged Black Tern sightings in Onslow occur from January to April (Birdlife Australia, 2022; Cornell Lab of Ornithology, 2022).



#### 6. Conclusion

- One broad fauna habitat was observed within the Survey Area comprising Coastal Dunes.
- The single-phase detailed vertebrate fauna survey recorded a total of 61 fauna species from 36 families.
- Direct sightings of four migratory bird species were recorded in areas directly surrounding the Survey Area:
  - o Caspian Tern (*Hydroprogne caspia*) IA (DBCA); MI, MA (EPBC)
  - o Common Sandpiper (Actitis hypoleucos) IA (DBCA); MI, MA (EPBC)
  - o Eastern Osprey (Pandion haliaetus cristatus) IA (DBCA); MI, MA (EPBC)
  - Greater Crested Tern (Thalasseus bergii) IA (DBCA); MI, MA (EPBC).
- One significant fauna species, Lerista planiventralis maryani (P1), utilises dune habitat
  in the bioregion, and records indicate that it historically occurred within 1 km of the
  Survey Area. Lerista tracks were abundant throughout the Survey Area, however, no L.
  p. maryani individuals were captured during the single-phase detailed vertebrate fauna
  survey.
- A migratory shorebird survey undertaken in April is unlikely to have recorded the full suite of migratory bird species that visit Onslow each year.
- Shorebirds may use the Coastal Dunes habitat within the Survey Area; however, these
  species are highly mobile and would not be reliant on the habitats within the Survey
  Area. Increased beach activity, lighting, noise, and pollution may disturb these species
  and impact feeding regimes.
- Turtles are unlikely to use the beaches adjacent to the Survey Area, however, low number may still come ashore to nest between October and January. Increased beach activity, lighting, noise and pollution may disturb these species and impact breading adults and hatchlings.
- Five introduced species were recorded during the survey, the Cat (Felis catus), the House
  Mouse (Mus musculus), the Red Fox (Vulpes vulpes), the Asian House Gecko
  (Hemidactylus frenatus), and the Green Tree Frog (Litoria caerulea; an extralimital
  population).



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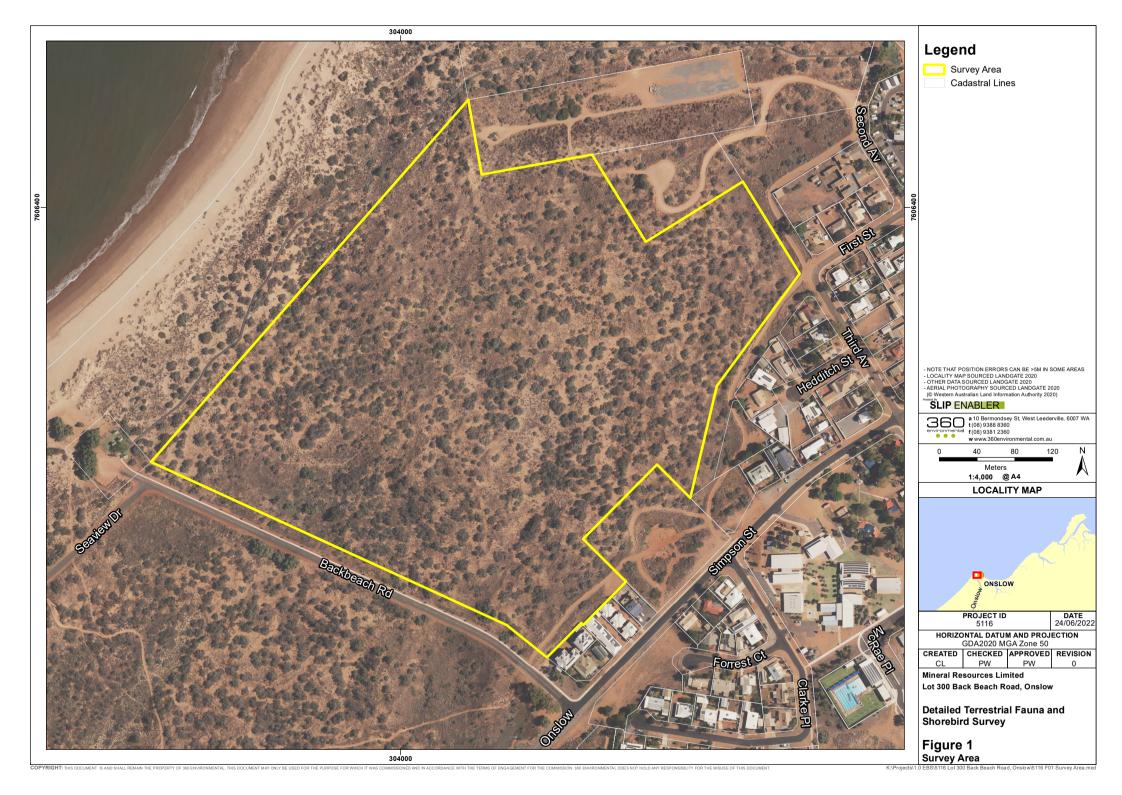
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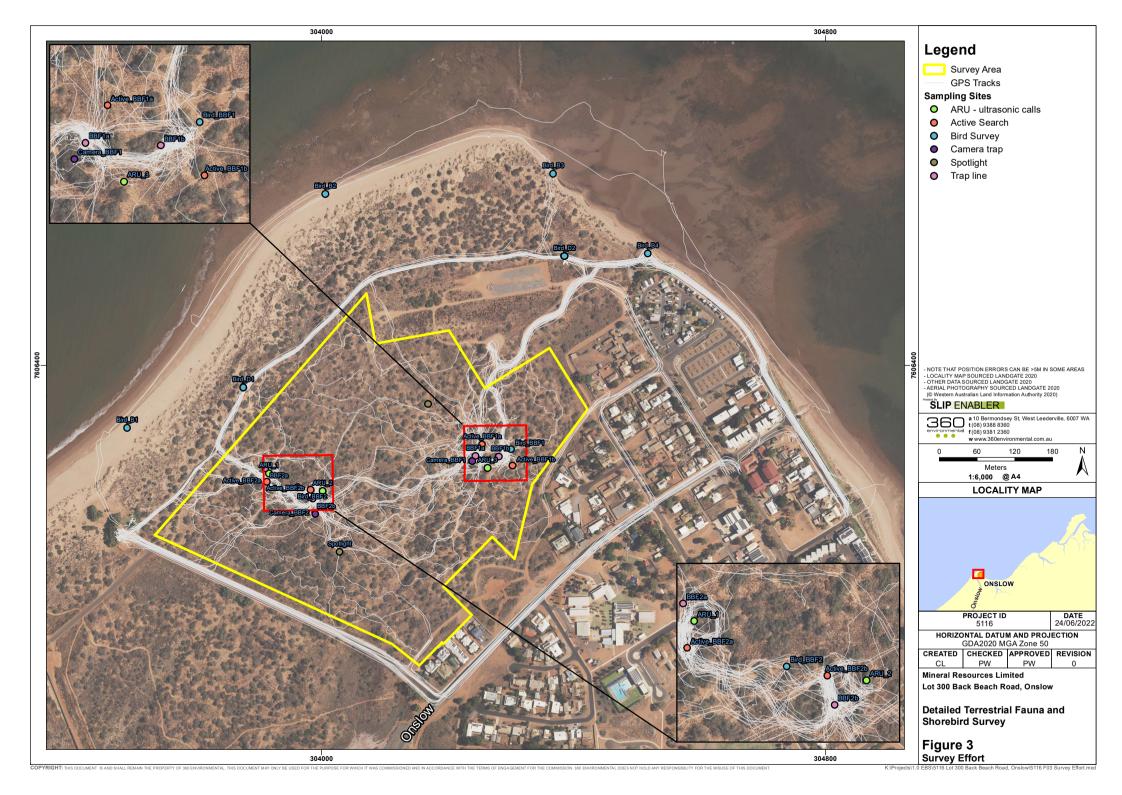
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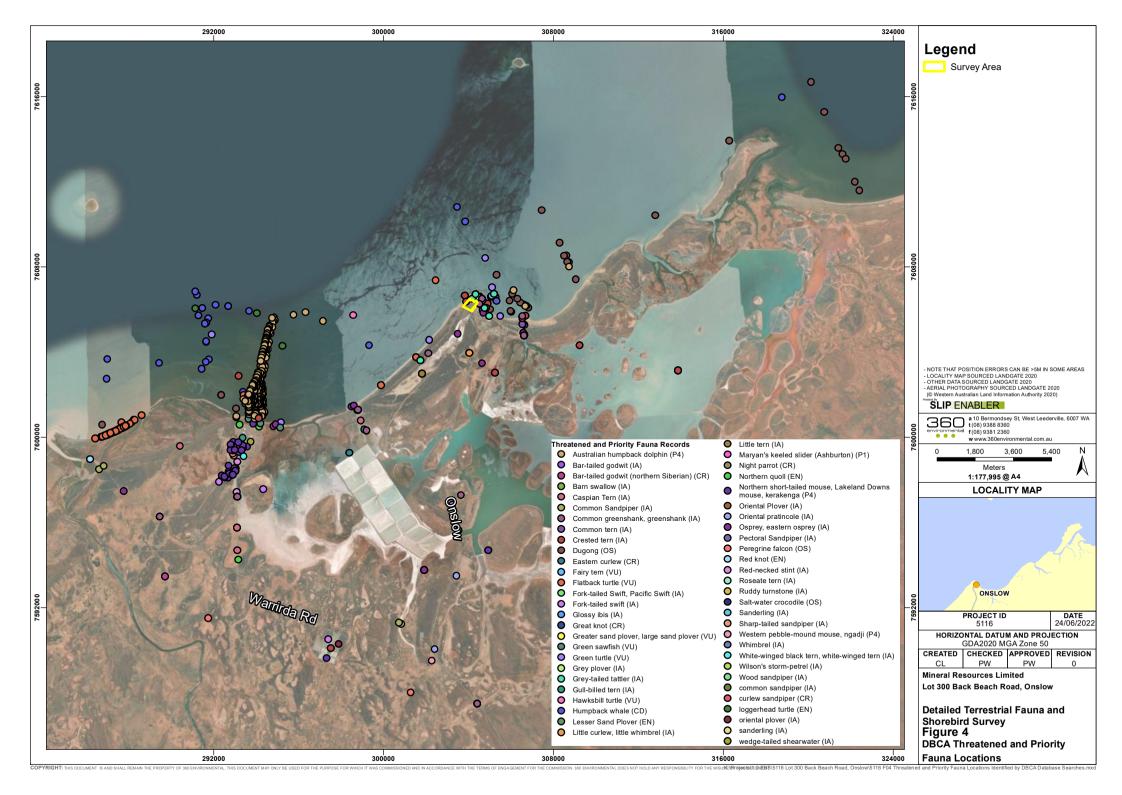


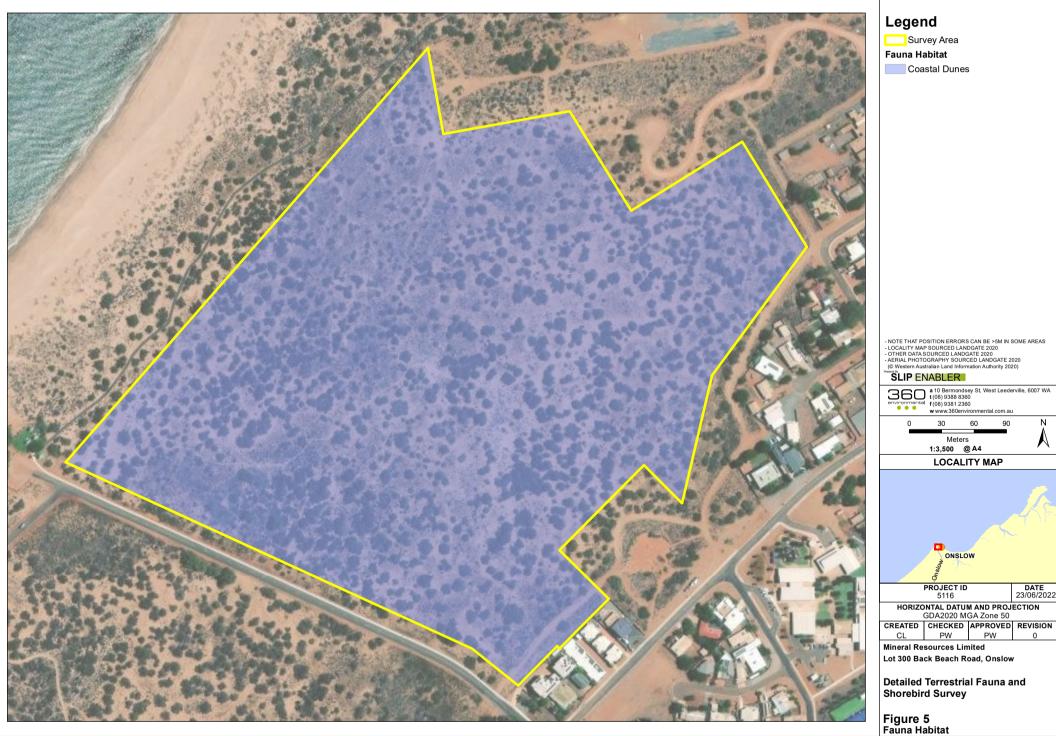
## **Figures**











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## **Appendices**



# Appendix A Database Searches

Class	Family	Scientific Name	Common Name	Conservation	Year
BIRD	Accinitridae	Pandion cristatus	Eastern osprey	<b>Code</b> IA	1978
BIRD	Accipitridae Accipitridae	Pandion cristatus		IA IA	1978
BIRD	Accipitridae	Pandion cristatus	Eastern osprey Eastern osprey	IA IA	2001
BIRD	Accipitridae	Pandion cristatus	Eastern osprey	IA	2001
BIRD	Accipitridae	Pandion cristatus	Eastern osprey	IA	2002
BIRD	Accipitridae	Pandion cristatus	Eastern osprey	IA	2005
BIRD	Accipitridae	Pandion cristatus	Eastern osprey	IA	2006
BIRD	Accipitridae	Pandion cristatus	Eastern osprey	IA	2008
BIRD	Accipitridae	Pandion cristatus	Eastern osprey	IA	2013
BIRD	Accipitridae	Pandion cristatus	Eastern osprey	IA	2014
BIRD	Accipitridae	Pandion cristatus	Eastern osprey	IA	2015
BIRD	Accipitridae	Pandion cristatus	Eastern osprey	IA	2017
BIRD	Accipitridae	Pandion cristatus	Eastern osprey	IA	2019
BIRD	Apodidae	Apus pacificus	Fork-tailed Swift	IA	2005
BIRD	Apodidae	Apus pacificus	Fork-tailed Swift	IA	2008
BIRD	Apodidae	Apus pacificus	Fork-tailed Swift	IA	2012
BIRD	Apodidae	Apus pacificus	Fork-tailed Swift	IA	2013
BIRD	Apodidae	Apus pacificus	Fork-tailed Swift	IA	2014
BIRD	Apodidae	Apus pacificus	Fork-tailed Swift	IA	2014
BIRD	Apodidae	Apus pacificus	Fork-tailed Swift	IA	2015
BIRD	Charadriidae	Charadrius leschenaultii	Greater sand plover	VU	1900
BIRD	Charadriidae	Charadrius leschenaultii	Greater sand plover	VU	2003
BIRD	Charadriidae	Charadrius leschenaultii	Greater sand plover	VU	2005
BIRD	Charadriidae	Charadrius leschenaultii	Greater sand plover	VU	2006
BIRD	Charadriidae	Charadrius leschenaultii	Greater sand plover	VU	2008
BIRD	Charadriidae	Charadrius leschenaultii	Greater sand plover	VU	2014
BIRD	Charadriidae	Charadrius leschenaultii	Greater sand plover	VU	2015
BIRD	Charadriidae	Charadrius leschenaultii	Greater sand plover	VU	2016
BIRD	Charadriidae	Charadrius leschenaultii	Greater sand plover	VU	2017
BIRD	Charadriidae	Charadrius mongolus	Lesser Sand Plover	EN	1999
BIRD	Charadriidae	Charadrius mongolus	Lesser Sand Plover	EN	2008
BIRD	Charadriidae	Charadrius mongolus	Lesser Sand Plover	EN	2014
BIRD	Charadriidae	Charadrius mongolus	Lesser Sand Plover	EN	2015
BIRD	Charadriidae	Charadrius mongolus	Lesser Sand Plover	EN	2017
BIRD	Charadriidae	Charadrius veredus	Oriental Plover	IA	2013
BIRD	Charadriidae	Charadrius veredus	Oriental Plover	IA	2015
BIRD	Charadriidae	Pluvialis squatarola	Grey plover	IA	1999
BIRD	Charadriidae	Pluvialis squatarola	Grey plover	IA	2006
BIRD	Charadriidae	Pluvialis squatarola	Grey plover	IA	2014
BIRD	Charadriidae	Pluvialis squatarola	Grey plover	IA	2015
BIRD	Falconidae	Falco peregrinus	Peregrine falcon	OS	2005
BIRD	Falconidae	Falco peregrinus	Peregrine falcon	OS	2012
BIRD	Falconidae	Falco peregrinus	Peregrine falcon	OS	2017
BIRD	Glareolidae	Glareola maldivarum	Oriental pratincels	IA	2008
BIRD	Glareolidae	Glareola maldivarum	Oriental pratincole	IA	2013
BIRD	Glareolidae	Glareola maldivarum	Oriental pratincole	IA	2017
BIRD	Hirundinidae Hirundinidae	Hirundo rustica	Barn swallow Barn swallow	IA IA	2014 2015
BIRD		Hirundo rustica	Wilson's storm-petrel		2013
BIRD BIRD	Hydrobatidae Laridae	Oceanites oceanicus Chlidonias leucopterus	White-winged black tern	IA IA	2013
BIRD	Laridae	Chlidonias leucopterus	White-winged black tern	IA IA	2008
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA IA	1978
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	1999
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2001
טווט	Laridac	Try at opt og the cuspiu	Caspian Term	IA	2001

BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2002
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2003
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2005
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2006
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2008
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2013
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2014
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2015
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2016
BIRD	Laridae	Hydroprogne caspia	Caspian Tern	IA	2017
BIRD	Laridae	Sterna dougallii	Roseate tern	IA	2003
BIRD	Laridae	Sterna dougallii	Roseate tern	IA	2006
BIRD	Laridae	Sterna dougallii	Roseate tern	IA	2008
BIRD	Laridae	Sterna dougallii	Roseate tern	IA	2016
BIRD	Laridae	Sterna hirundo	Common tern	IA	2008
BIRD	Laridae	Sterna hirundo	Common tern	IA	2014
BIRD	Laridae	Sterna hirundo	Common tern	IA	2015
BIRD	Laridae	Sterna hirundo	Common tern	IA	2017
BIRD	Laridae	Sternula albifrons	Little tern	IA	2001
BIRD	Laridae	Sternula albifrons	Little tern	IA	2002
BIRD	Laridae	Sternula albifrons	Little tern	IA	2006
BIRD	Laridae	Sternula albifrons	Little tern	IA	2008
BIRD	Laridae	Sternula albifrons	Little tern	IA	2014
BIRD	Laridae	Sternula albifrons	Little tern	IA	2015
BIRD	Laridae	Sternula nereis nereis	Fairy tern	VU	1947
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	1981
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	1999
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	2001
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	2002
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	2005
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	2006
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	2008
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	2014
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	2015
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	2016
BIRD	Laridae	Thalasseus bergii	Crested tern	IA	2017
BIRD	Procellariidae	Ardenna pacifica	Wedge-tailed shearwater	IA	2014
BIRD	Procellariidae	Ardenna pacifica	Wedge-tailed shearwater	IA	2017
BIRD	Psittacidae	Pezoporus occidentalis	Night parrot	CR	1967
BIRD	Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	2001
BIRD	Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	2002
BIRD	Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	2003
BIRD	Scolopacidae	Actitis hypoleucos	common sandpiper	IA	2008
BIRD	Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	2013
BIRD	Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	2014
BIRD	Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	2015
BIRD	Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	2016
BIRD	Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	2017
BIRD	Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	2018
BIRD	Scolopacidae	Arenaria interpres	Ruddy turnstone	IA	1999
BIRD	Scolopacidae	Arenaria interpres	Ruddy turnstone	IA	2006
BIRD	Scolopacidae	Arenaria interpres	Ruddy turnstone	IA IA	2008
BIRD	Scolopacidae	Arenaria interpres	Ruddy turnstone	IA IA	2008
BIRD	Scolopacidae	Arenaria interpres	Ruddy turnstone	IA IA	2014
BIRD	Scolopacidae	Arenaria interpres	Ruddy turnstone	IA IA	2015
BIRD	Scolopacidae	Calidris acuminata	Sharp-tailed sandpiper	IA IA	1901
טוועט	Scolopacidae	canaris acaminata	onarp tailed surrapiper	1/4	1301

BIRD	Scolopacidae	Calidris acuminata	Sharp-tailed sandpiper	IA	2003
BIRD	Scolopacidae	Calidris acuminata	Sharp-tailed sandpiper	IA	2008
BIRD	Scolopacidae	Calidris acuminata	Sharp-tailed sandpiper	IA	2011
BIRD	Scolopacidae	Calidris alba	Sanderling	IA	2002
BIRD	Scolopacidae	Calidris alba	Sanderling	IA	2003
BIRD	Scolopacidae	Calidris alba	Sanderling	IA	2006
BIRD	Scolopacidae	Calidris alba	Sanderling	IA	2008
BIRD	Scolopacidae	Calidris alba	Sanderling	IA	2014
BIRD	Scolopacidae	Calidris alba	Sanderling	IA	2015
BIRD	Scolopacidae	Calidris alba	Sanderling	IA	2016
BIRD	Scolopacidae	Calidris alba	Sanderling	IA	2017
BIRD	Scolopacidae	Calidris canutus	Red knot	EN	1980
BIRD	Scolopacidae	Calidris ferruginea	Curlew sandpiper	CR	1999
BIRD	Scolopacidae	Calidris melanotos	Pectoral Sandpiper	IA	2015
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	1999
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	2001
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	2002
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	2003
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	2006
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	2008
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	2013
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	2014
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	2015
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	2016
BIRD	Scolopacidae	Calidris ruficollis	Red-necked stint	IA	2017
BIRD	Scolopacidae	Calidris tenuirostris	Great knot	CR	2008
BIRD	Scolopacidae	Calidris tenuirostris	Great knot	CR	2019
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	1977
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	1978
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2001
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2002
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2003
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2005
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2006
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2008
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2014
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2015
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2016
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2017
BIRD	Scolopacidae	Limosa lapponica	Bar-tailed godwit	IA	2019
BIRD	Scolopacidae	Limosa lapponica menzbieri	Bar-tailed godwit	CR	1901
BIRD	Scolopacidae	Limosa lapponica menzbieri	Bar-tailed godwit	CR	
BIRD	Scolopacidae	Numenius madagascariensis	Eastern curlew	CR	1966
BIRD	Scolopacidae	Numenius madagascariensis	Eastern curlew	CR	2001
BIRD	Scolopacidae	Numenius madagascariensis	Eastern curlew	CR	2002
BIRD	Scolopacidae	Numenius madagascariensis	Eastern curlew	CR	2006
BIRD	Scolopacidae	Numenius madagascariensis	Eastern curlew	CR	2014
BIRD	Scolopacidae	Numenius madagascariensis	Eastern curlew	CR	2015
BIRD	Scolopacidae	Numenius madagascariensis	Eastern curlew	CR	2017
BIRD	Scolopacidae	Numenius madagascariensis	Eastern curlew	CR	2019
BIRD	Scolopacidae	Numenius minutus	Little curlew	IA	2003
BIRD	Scolopacidae	Numenius minutus	Little curlew	IA	2016
BIRD	Scolopacidae	Numenius phaeopus	Whimbrel	IA	2006
BIRD	Scolopacidae	Numenius phaeopus	Whimbrel	IA	2008
BIRD	Scolopacidae	Numenius phaeopus	Whimbrel	IA	2014
BIRD	Scolopacidae	Numenius phaeopus	Whimbrel	IA	2015

BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         1999           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2001           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2006           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2008           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2008           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2018           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2015           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2018           BIRD	BIRD	Scolopacidae	Numenius phaeopus	Whimbrel	IA	2017
BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2001           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2006           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2008           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2015           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2015           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2008           BIRD         Scolopacidae         Tringa rebuloria         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa rebuloria         Common greenshank         IA         2006           BIRD         Scolopacidae         Tringa rebuloria         Common greenshank         IA         2006           BIRD         Scolopacidae         Tringa rebuloria         Common greenshank         IA         2006           BIRD			· ·			
BIRD         Scolopacidae         Tringa brevipes         Grey-talled tattler         IA         2003           BIRD         Scolopacidae         Tringa brevipes         Grey-talled tattler         IA         2008           BIRD         Scolopacidae         Tringa brevipes         Grey-talled tattler         IA         2014           BIRD         Scolopacidae         Tringa brevipes         Grey-talled tattler         IA         2015           BIRD         Scolopacidae         Tringa brevipes         Grey-talled tattler         IA         2016           BIRD         Scolopacidae         Tringa brevipes         Grey-talled tattler         IA         2016           BIRD         Scolopacidae         Tringa brevipes         Grey-talled tattler         IA         2017           BIRD         Scolopacidae         Tringa rebularia         Common greenshank         IA         1090           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2006           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2016           BIRD         Storista         Tringa nebularia         Common greenshank         IA         2019           BIRD		•	•			
BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2006           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2004           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2015           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa previora         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebuloria         Common greenshank         IA         2006           BIRD         Scolopacidae         Tringa nebuloria         Common greenshank         IA         2016           BIRD         Scolopacidae         Tringa nebuloria         Common greenshank         IA         2016           BIRD         Sumidae         Gelopacidae         Tringa nebuloria         Common greenshank         IA         2016						
BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2008           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2015           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2008           BIRD         Scolopacidae         Tringa prebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2016           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tren         IA         2018           BIRD						
BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2014           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa previpes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2006           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2006           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2016           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Sturnidae         Gelochelidon nilotica         Guil-billed tern         IA         2016           BIRD		·	•	, ,		
BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2015           BIRD         Scolopacidae         Tringa brevipes         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa previpes         Grey-tailed tattler         IA         2007           BIRD         Scolopacidae         Tringa pabluoria         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebuloria         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebuloria         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebuloria         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebuloria         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebuloria         Common greenshank         IA         2015           BIRD         Sturnidae         Gelochelidon nilotica         Gull-Billed tern         IA         2016           BIRD         Sturnidae         Gelochelidon nilotica         Gull-Billed tern         IA         2018           BIRD				,		
BRID         Scolopacidae         Tringa brewjees         Grey-tailed tattler         IA         2016           BIRD         Scolopacidae         Tringa brewjees         Grey-tailed tattler         IA         2017           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2003           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2003           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         IA         2003           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         IA         2015           BIRD						
BIRD         Scolopacidae         Tringa brewipes         Grey-tailed tattler         IA         2017           BIRD         Scolopacidae         Tringa ploreola         Wood sandpiper         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2018           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Storidae         Gelochelidan nilotica         Gull-billed tern         IA         2016           BIRD         Sturridae         Gelochelidan nilotica         Gull-billed tern         IA         2008           BIRD         Sturridae         Gelochelidan nilotica         Gull-billed tern         IA         2018           BIRD         Sturridae         Gelochelidan nilotica         Gull-billed tern         IA         2018           BIRD <th< td=""><td></td><td></td><td>•</td><td>·</td><td></td><td></td></th<>			•	·		
BIRD         Scolopacidae         Tringa glareola         Wood sandpiper         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         1999           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2019           BIRD         Storidae         Gelochelidan nilotica         Gull-billed tern         IA         1999           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         IA         2006           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         IA         2006           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         IA         2006           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         IA         2016           BIRD <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
BIRD         Scolopacidae         Tringa nebularia         Common greenshank         I.A         1099           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         I.A         2003           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         I.A         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         I.A         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         I.A         2015           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         I.A         2019           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         I.A         2003           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         I.A         2006           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         I.A         2006           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         I.A         2006           BIRD         Sturnidae         Gelochelidan nilotica         Gull-billed tern         I.A         2016           BIRD						
BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2003           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         1999           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2006           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2006           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2016           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2018           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2016           BIRD						
BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2006           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2005           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2019           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2003           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2003           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2015           BIRD         Thresklornithidae         Plegadis falcinellus         Glossy ibis         IA         2015           BIRD         Thresklornithidae         Pristidae         Pristidae         Pristidae         VI         2013				_		
BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2008           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2019           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2009           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2018           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2018           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2018           BIRD         Pristis zijsron         Green sawfish         VU         2011           BIRD         Pristis zijsron			5	_		
BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2015           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2016           BIRD         Sturnidae         Gelocheildon nilotica         Gull-billed tern         IA         2019           BIRD         Sturnidae         Gelocheildon nilotica         Gull-billed tern         IA         2003           BIRD         Sturnidae         Gelocheildon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelocheildon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelocheildon nilotica         Gull-billed tern         IA         2018           BIRD         Threskiornithidae         Plegadis falcinellus         Glossy ibis         IA         2015           BIRD         Thristidae         Pristidae         Pristidae         Pristidae         Pristidae         VU         2013           MAMMAL         Balaenopteridae         Megaptera novaeangliae         Humpback whale         CD         2013           MAMMAL         Dasyuridae         Dasyuridae novaeangliae         Humpback whale         CD         2015<			_			
BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2016           BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2019           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2003           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2016           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2018           BIRD         Thresklornithidae         Pristis zijsron         Green sawfish         VU         2013           BIRD         Pristidae         Pristis zijsron         Green sawfish         VU         2013           MAMMAL         Balaenopteridae         Megaptera novaeangliae         Humpback whale         CD         2013           MAMMAL         Balsenopteridae         Megaptera novaeangliae         Humpback whale         CD         2015           MAMMAL </td <td></td> <td></td> <td>-</td> <td>_</td> <td></td> <td></td>			-	_		
BIRD         Scolopacidae         Tringa nebularia         Common greenshank         IA         2019           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2003           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2006           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2016           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2018           BIRD         Threskiornithidae         Plegadis falcinellus         Glossy libis         IA         2018           BIRD         Threskiornithidae         Pistis zijsron         Green sawfish         VU         2011           FISH         Pristidae         Pristis zijsron         Green sawfish         VU         2013           MAMMAL         Dasyuridae         Megaptera novaeangliae         Humpback whale         CD         2013           MAMMAL         Dasyuridae         Dasyurus hallucatus         Northern quoll         EN         2012           MAMMAL			•			
BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         1999           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2006           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2006           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2016           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2016           BIRD         Thresklornithidae         Plegadis folcinelius         Glossy ibis         IA         2015           FISH         Pristidae         Pristide; Sijsron         Green sawfish         VU         2011           MAMMAL         Balaenopteridae         Megaptera novaeangilae         Humpback whale         CD         2013           MAMMAL         Dasyuridae         Dasyurus hallucatus         Northern quoll         EN         2013           MAMMAL         Dasyuridae         Dasyurus hallucatus         Northern quoll         EN         2013           MAMMAL         Delphinidae         Sousa sahulensis         Australian humpback dolphin         P4         2013				_		
BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2003           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2016           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2018           BIRD         Threskiornithidae         Plegadis folcinellus         Glossy ibis         IA         2015           FISH         Pristidae         Pristidae Pristis zijsron         Green sawfish         VU         2011           MAMMAL         Balaenopteridae         Megaptera novaeangliae         Humpback whale         CD         2013           MAMMAL         Dasyuridae         Dasyurus hallucatus         Northern quoll         EN         2012           MAMMAL         Dasyuridae         Dasyurus hallucatus         Northern quoll         EN         2013           MAMMAL         Delphinidae         Sousa sahulensis         Australian humpback dolphin         P4         2013           MAMMAL         Delphinidae         Sousa sahulensis         Australian humpback dolphin         P4         2015		•	•	_		
BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2006           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2018           BIRD         Threskiornithidae         Plegadis falcinellus         Glossy ibis         IA         2015           FISH         Pristidae         Pristis zijsron         Green sawfish         VU         2011           MAMMAL         Balaenopteridae         Megaptera novaeangliae         Humpback whale         CD         2013           MAMMAL         Dasyuridae         Dasyurus hallucatus         Northern quoll         EN         2012           MAMMAL         Dasyuridae         Dasyurus hallucatus         Northern quoll         EN         2013           MAMMAL         Dasyuridae         Dasyurus hallucatus         Northern quoll         EN         2013           MAMMAL         Dasyuridae         Dasyurus hallucatus         Northern quoll         EN         2013           MAMMAL         Delphinidae         Sousa sahulensis         Australian humpback dolphin         P4         2013           MAMM						
BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2008           BIRD         Sturnidae         Gelochelidon nilotica         Gull-billed tern         IA         2018           BIRD         Threskiornithidae         Gelochelidon nilotica         Gull-billed tern         IA         2018           BIRD         Threskiornithidae         Peristis zijsron         Green sawfish         VU         2011           FISH         Pristidae         Pristis zijsron         Green sawfish         VU         2013           MAMMAL         Balaenopteridae         Megaptera novaeangliae         Humpback whale         CD         2015           MAMMAL         Dasyuridae         Dosyurus hallucatus         Northern quoll         EN         2012           MAMMAL         Dasyuridae         Dosyurus hallucatus         Northern quoll         EN         2013           MAMMAL         Delphinidae         Sousa sahulensis         Australian humpback dolphin         P4         2013           MAMMAL         Delphinidae         Sousa sahulensis         Australian humpback dolphin         P4         2015           MAMMAL         Dugongidae         Dugong dugon         Dugong         OS         2012           MA						
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REPTILE Cheloniidae Eretmochelys imbricata Hawksbill turtle VU 2013 REPTILE Cheloniidae Natator depressus Flatback turtle VU 2009 REPTILE Cheloniidae Natator depressus Flatback turtle VU 2010 REPTILE Cheloniidae Natator depressus Flatback turtle VU 2012						
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REPTILE	Cheloniidae	Natator depressus	Flatback turtle	VU	2014
REPTILE	Cheloniidae	Natator depressus	Flatback turtle	VU	2015
REPTILE	Cheloniidae	Natator depressus	Flatback turtle	VU	2017
REPTILE	Cheloniidae	Natator depressus	Flatback turtle	VU	2018
REPTILE	Cheloniidae	Natator depressus	Flatback turtle	VU	
REPTILE	Crocodylidae	Crocodylus porosus	Salt-water crocodile	OS	2008
REPTILE	Crocodylidae	Crocodylus porosus	Salt-water crocodile	OS	2014
REPTILE	Scincidae	Lerista planiventralis maryani	Maryan's keeled slider	P1	1990



## **NatureMap Species Report**

### Created By Guest user on 13/07/2021

Kingdom Animalia

**Current Names Only** Yes

Core Datasets Only Yes

Method 'By Circle'

Centre 115° 06' 29" E,21° 38' 09" S

Buffer 40km

Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	810	37737
Other specially protected fauna	5	2122
Priority 1	1	1
Priority 3	1	44
Priority 4	5	686
Protected under international agreement	35	933
Rare or likely to become extinct	23	902
TOTAL	880	42425

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	12-31 D	IA    Department of Biodiversity,   Conservation and Attractions



	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Quer Area
39.		Hydroprogne caspia (Caspian Tern)		IA	
40.		Limosa lapponica (Bar-tailed Godwit)		IA	
41.		Numenius minutus (Little Curlew, Little Whimbrel)		IA	
42.		Numenius phaeopus (Whimbrel)		IA	
43.		Oceanites oceanicus (Wilson's Storm-petrel)		IA	
44.		Onychoprion anaethetus (Bridled Tern)		IA	
45.		Pandion cristatus (Osprey, Eastern Osprey)		IA	
46.	24843	Plegadis falcinellus (Glossy Ibis)		IA	
47.	24382	Pluvialis fulva (Pacific Golden Plover)		IA	
48.	24383	Pluvialis squatarola (Grey Plover)		IA	
49.	24716	Puffinus pacificus (Wedge-tailed Shearwater)		IA	
50.	25640	Sterna dougallii (Roseate Tern)		IA	
51.	24524	Sterna dougallii subsp. gracilis (Roseate Tern)		IA	
52.	25642	Sterna hirundo (Common Tern)		IA	
53.	48593	Sternula albifrons (Little Tern)		IA	
54.	25754	Sula leucogaster (Brown Booby)		IA	
55.	48597	Thalasseus bergii (Crested Tern)		IA	
56.	24806	Tringa glareola (Wood Sandpiper)		IA	
57.	24808	Tringa nebularia (Common Greenshank, greenshank)		IA	
58.	41351	Xenus cinereus (Terek Sandpiper)		IA	
ther case	ially prot	acted fauna			
-		ected fauna		0	
59.		Crocodylus porosus (Salt-water Crocodile)		S	
60.		Dugong dugon (Dugong)		S	
61.		Falco peregrinus (Peregrine Falcon)		S	
62.		Megaptera novaeangliae (Humpback Whale)		S	
63.	42358	Rhincodon typus (Whale Shark)		S	
riority 1 64.	25164	Lerista planiventralis subsp. maryani (Maryan's keeled slider (Ashburton), Keeled Slider (NW coast Onslow to Barradale))		P1	
riority 3					
65.	25024	Ctenotus angusticeps (Airlie Island Ctenotus, Northwestern coastal Ctenotus)		P3	
riority 4 66.	24217	Leggadina lakedownensis (Northern Short-tailed Mouse, Lakeland Downs Mouse, Kerakenga)		P4	
67.	24060	Orcaella heinsohni (Australian Snubfin Dolphin)		P4	
68.	24233	Pseudomys chapmani (Western Pebble-mound Mouse, Ngadji)		P4	
69.		Sousa sahulensis (Australian humpback dolphin)		P4	
70.	24803	Tringa brevipes (Grey-tailed Tattler)		P4	
on-conse	rvation ta				
71.		??			
72.		Ablennes hians			
73.		Abudefduf bengalensis			
74.	24559	Acanthagenys rufogularis (Spiny-cheeked Honeyeater)			
75.		Acanthocepola abbreviata			
76.		Acanthopagrus latus			
77.		Acanthopagrus palmaris			
78.	25243	Acanthophis pyrrhus (Desert Death Adder)			
79.		Acanthurus grammoptilus			
80.		Acanthurus triostegus			
81.		Acariformes sp.			
82.	25535	Accipiter cirrocephalus (Collared Sparrowhawk)			
83.	25536	Accipiter fasciatus (Brown Goshawk)			
84.		Acentrogobius viridipunctatus			
85.		Achnanthidium minutissima (Kütz.) Czarnecki			
86.	25751	Acridotheres tristis (Common Myna)	Υ		
87.		Adventor elongatus			
88.		Adversaeschna brevistyla			
89.	25544	Aegotheles cristatus (Australian Owlet-nightjar)			
90.		Aeolosoma sp. 1 (PSS)			
91.		Agraptocorixa parvipunctata			
92.		Agraptocorixa sp.			
92.	25255	Agrapioconxa sp.  Aipysurus laevis (Olive Seasnake)			
94.	∠535/	Aipysurus tenuis (Brown-lined Seasnake)			
95. oe		Alledos un histrigat un			
96.		Allodessus bistrigatus			
97.		Alona cf. rectangula (but may be > 1 spp.)			
98.		Alona rectangula novaezealandiae			
99.		Ambassis agassizi	1 Departmen	at of Biodiversity,	WESTER AUSTRA
33.				ion and Attractions	



	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Que Area
100.		Ambassis gymnocephalus			
101.		Amniataba caudavittata			
102.		Amniataba percoides			
103.		Amniataba percoides?			Υ
104.		Amphibolurus gilberti (Ta-ta, Gilbert's Dragon)			
105.	30833	Amphibolurus longirostris (Long-nosed Dragon)			
106. 107.	2/212	Aname ellenae			
107.		Anas gracilis (Grey Teal)  Anas superciliosa (Pacific Black Duck)			
109.	24310	Anax papuensis			
110.	47414	Anhinga novaehollandiae (Australasian Darter)			
111.		Anisops canaliculatus			
112.		Anisops nasutus			
113.		Anisops paraexigerus			
114.		Anisops sp.			
115.		Anisops stali			
116.		Anisops thienemanni			
117.		Anomoeoneis brachysira (Bréb.) Grun.			
118.		Anopheles annulipes s.l.			
119.	25317	Antaresia childreni (Children's Python)			
120.		Antaresia stimsoni (Stimson's Python)			
121.		Antaresia stimsoni subsp. stimsoni (Stimson's Python)			
122.	25670	Anthus australis (Australian Pipit)			
123.		Apistus carinatus			
124.		Apogon rueppellii			
125. 126.	24205	Apogon sp.  Aquila guday (Wodgo tailed Fagle)			
126.	24265	Aquila audax (Wedge-tailed Eagle) Arcella sp. P1			
127.	25557	Ardea garzetta (Little Egret)			
129.		Ardea garzetta subsp. nigripes (Little Egret)			
130.		Ardea ibis (Cattle Egret)			
131.		Ardea intermedia (Intermediate Egret)			
132.		Ardea modesta (great egret, white egret)			
133.	24340	Ardea novaehollandiae (White-faced Heron)			
134.	24341	Ardea pacifica (White-necked Heron)			
135.	25560	Ardea sacra (Eastern Reef Egret, Eastern Reef Heron)			
136.	24610	Ardeotis australis (Australian Bustard)			
137.		Areacandona 'undulata' (PSS)			Υ
138.		Areacandona sp. 6' (PSS)			Y
139.		Argiocnemis rubescens			
140.		Armatalona macrocopa			
141. 142.		Arothron hispidus Arothron manilensis			
143.		Arrenurus (Arrenurus) balladoniensis			
144.		Arrhamphus sclerolepis			
145.	25566	Artamus cinereus (Black-faced Woodswallow)			
146.		Artamus cyanopterus (Dusky Woodswallow)			
147.		Artamus leucorynchus (White-breasted Woodswallow)			
148.		Artamus leucorynchus subsp. leucopygialis (White-breasted Woodswallow)			
149.	24355	Artamus minor (Little Woodswallow)			
150.	24356	Artamus personatus (Masked Woodswallow)			
151.	25320	Aspidites melanocephalus (Black-headed Python)			
152.		Asplanchna sieboldi			
153.		Assiculus punctatus			
154.		Atelomycterus fasciatus			
155.		Atherinid sp.			
156.		Atherinomorus vainionsis			
157.		Atherinomorus vaigiensis			
158. 159.		Aulacoseira ambigua Aulocoseira granulata (Ehr.) Simonsen			
160.		Aulopus purpurissatus			
161.		Australocyclops sp.			
162.		Australospilus elongatus			
163.		Austrolestes aridus			
164.		Austronibea oedegenys?			Υ
165.		Austropeplea lessoni			
	24318	Aythya australis (Hardhead)			
166.					
166. 167.		Baetidae sp.			
		Baetidae sp. Barnardius zonarius Bathygobius cocosensis			

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum







	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
170.		Bathygobius fuscus			
171.		Bathynella sp.			
172.		Bdelloidea sp. 2:2			
173.		Bdelloidea sp. 3:3			
174.		Bennelongia australis OrdX (PSW)			
175.		Bennelongia cb			Υ
176.		Bennelongia minimus			
177.		Bennelongia nimala			
178. 179.		Bennelongia triangulata (ex sp 414 /460 (CB) Berosus nutans			
179.		Berosus pulchellus			
181.		Berosus sp.			
182.		Blattella germanica			Υ
183.		Blennodesmus scapularis			·
184.		Bodianus frenchii			
185.		Boeckella triarticulata			
186.	24251	Bos taurus (European Cattle)	Υ		
187.		Brachionus dichotomus			
188.		Brachionus falcatus			
189.		Brachionus leydigii			
190.		Brachionus nilsoni			
191.		Brachionus quadridentatus			
192.		Branchinella halsei			
193. 194.		Branchinella pinderi Branchinella proboscida			
195.	24359	Burhinus grallarius (Bush Stone-curlew)			
196.	2.000	Butis amboinensis			
197.	47897	Butorides striata (Striated Heron, Mangrove Heron)			
198.	25715	Cacatua roseicapilla (Galah)			
199.	25716	Cacatua sanguinea (Little Corella)			
200.	42307	Cacomantis pallidus (Pallid Cuckoo)			
201.		Caenidae sp.			
202.	24269	Calamanthus campestris (Rufous Fieldwren)			
203. 204.		Calamoecia baylyi (Cue form) (ex nr lucasi CB)			
204.		Calamoecia halsei Calanoida sp.			
206.		Candonocypris fitzroyi			
207.	48920	Canis familiaris (Dog, Dingo)	Υ		
208.		Canthigaster coronata			
209.	24253	Capra hircus (Goat)	Υ		
210.		Carangoides talamparoides			
211.		Caranx ignobilis			
212.		Caranx sexfasciatus			
213.	25000	Centriscus sp. Centropus phasianinus (Pheasant Coucal)			
214. 215.	23000	Ceratopogonidae sp.			
216.		Ceriodaphnia comuta			
217.	24564	Certhionyx variegatus (Pied Honeyeater)			
218.		Chaerephon jobensis (Greater Northern Freetail-bat, Northern Mastiff Bat)			
219.		Chaetodon lunula			
220.		Chaetodon plebeius			
221.		Chaetodon sp.			
222.		Chaetodontoplus duboulayi			
223.	24186	Chalinolobus gouldii (Gould's Wattled Bat) Chanos chanos			
224. 225.	24377	Charadrius ruficapillus (Red-capped Plover)			
226.	2-1077	Chelmon marginalis			
227.		Chelonodon patoca			
228.	24321	Chenonetta jubata (Australian Wood Duck, Wood Duck)			
229.	47909	Cheramoeca leucosterna (White-backed Swallow)			
230.		Chimarra sp AV17 (PSW)			
231.		Chirocentrus dorab			
232.		Chironominae sp.			
233.		Chroicecopholus poyophollandina			
234. 235.	24431	Chroicocephalus novaehollandiae Chrysococcyx basalis (Horsfield's Bronze Cuckoo)			
236.		Chrysococcyx osculans (Black-eared Cuckoo)			
237.		Circus approximans (Swamp Harrier)			
238.		Circus assimilis (Spotted Harrier)			
239.	24774	Cladorhynchus leucocephalus (Banded Stilt)	<b>6.3</b>		
			Department Conservation	of Biodiversity, on and Attractions	WESTERN

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museur







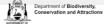
	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
240.		Cloeon sp.			
241.		Cloeon sp. P1 (PSW)			
242. 243.		Cocconeis placentula var. euglypta ehr. Coenagrionidae sp.			
244.	25675	Colluricincla harmonica (Grey Shrike-thrush)			
245.		Columba livia (Domestic Pigeon)	Υ		
246.		Colurodontis paxmani			
247.		Congrogadus winterbottomi			
248.	25568	Coracina novaehollandiae (Black-faced Cuckoo-shrike)			
249.		Coradion chrysozonus			
250.		Corduliidae sp.			
251.		Coris aygula			
252.		Corixidae sp.			
253.		Corvus bennetti (Little Crow)			
254. 255.		Corvus orru (Torresian Crow)			
255. 256.		Coturnix pectoralis (Stubble Quail) Coturnix ypsilophora (Brown Quail)			
257.		Coturnix ypsilophora subsp. australis (Brown Quail)			
258.		Coturnix ypsilophora subsp. cervina (Brown Quail)			
259.		Cracticus nigrogularis (Pied Butcherbird)			
260.		Cracticus tibicen (Australian Magpie)			
261.		Cracticus tibicen subsp. longirostris			Υ
262.	25596	Cracticus torquatus (Grey Butcherbird)			
263.		Craterocephalus capreoli			
264.		Craticula cuspidata (Grun. ex. Van Heurck) Mann			
265.		Craticula halophila (Grun. ex. Van Heurck) Mann			
266.		Cryptochironomus griseidorsum			
267.	25450	Cryptoerithus occultus			
268. 269.		Ctenophorus caudicinctus (Ring-tailed Dragon)  Ctenophorus caudicinctus subsp. caudicinctus (Ring-tailed Dragon)			
270.		Ctenophorus femoralis (Dune Dragon)			
271.		Ctenophorus isolepis (Crested Dragon, Military Dragon)			
272.		Ctenophorus isolepis subsp. gularis (Central Military Dragon)			
273.	24876	Ctenophorus isolepis subsp. isolepis (Crested Dragon, Military Dragon)			
274.	24882	Ctenophorus nuchalis (Central Netted Dragon)			
275.	24885	Ctenophorus rubens (Red Dragon)			
276.	24887	Ctenophorus rufescens (Red Rock Dragon)			
277.		Ctenotrypauchen microcephalus			
278.		Ctenotus calurus			
279. 280.		Ctenotus grandis Ctenotus grandis subsp. titan			
281.		Ctenotus hanloni			
282.		Ctenotus helenae			
283.		Ctenotus iapetus			
284.		Ctenotus maryani			
285.	25463	Ctenotus pantherinus (Leopard Ctenotus)			
286.	25064	Ctenotus pantherinus subsp. ocellifer (Leopard Ctenotus)			
287.	25066	Ctenotus quattuordecimlineatus			
288.		Ctenotus rufescens			
289.		Ctenotus saxatilis (Rock Ctenotus)			
290. 291.	25074	Ctenotus schomburgkii Culicoides sp			
291. 292.		Culicoides sp.  Cybister tripunctatus			
293.	25375	Cyclorana maini (Sheep Frog)			
294.		Cyclorana platycephala (Water-holding Frog)			
295.		Cygnus atratus (Black Swan)			
296.		Cylotella menghiniana Kütz.			
297.		Cymbacephalus staigeri?			
298.		Cymbella proxima Reimer			Υ
299.		Cypretta 'triangulum'			
300.		Cypretta ?lutea			
301.		Cypricorrus salinus			
302. 303.		Cypricercus salinus Cypricercus sp. 422 (CB)			
303.		Cypricercus sp. 422 (CB)  Cypricercus sp. 442 (CB)			
305.	25547	Dacelo leachii (Blue-winged Kookaburra)			
306.		Dacelo leachii subsp. leachii (Blue-winged Kookaburra)			
307.		Dactyloptena papilio			
308.		Dactylopus dactylopus			
309.		Daphnia carinata			
			Department Conservati	of Biodiversity,	WESTERN







1911. Displaced in commenced (Lifte Note You Acad St.) 1912. 2010. Discussion commenced (Lifte Note You Acad St.) 1913. 2010. Discussion commenced (Lifte Note You Acad St.) 1914. 2010. Discussion commenced (Lifte Note You Acad St.) 1915. 2010. Discussion commenced (Lifte Note You Acad St.) 1916. 2010. Discussion commenced (Lifte Note You Acad St.) 1917. Discussion commenced (Lifte Note You Acad St.) 1918. 2010. Discussion commenced (Lifte Note You Acad St.) 1918. 2010. Discussion commenced (Lifte Note You Acad St.) 1919. Discussion commenced (Lifte Note Yo		Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
1912   2500   Celebra Newsold	310.		Dasybasis vetusta			Υ
314.   2500   Tablem assume	311.	24091	Dasykaluta rosamondae (Little Red Kaluta)			
314. 2003 Centra incisa  316. 2005 Centra incisa  317. Centra incisa  318. 2432 Central central incisa  319. Central incisa  319. Central incisa  319. Central incisa  320. Central incisa  321. Central incisa  322. Central incisa  323. Central incisa  324. Central incisa  325. Central incisa  326. Central incisa  327. Central incisa  328. Central incisa  329. Central incisa  320. Central incisa  320. Central incisa  321. Central incisa  322. Central incisa  323. Central incisa  324. Central incisa  325. Central incisa  326. Central incisa  327. Central incisa  328. Central incisa  329. Central incisa  320. Ce	312.	25000	Delma haroldi			
316.   2548   Demansia pasamapia (micha dana Minjarrakan)	313.	25001	Delma nasuta			
316.   2525   Demonstrate postmorphis adults of participate (** ** ** ** ** ** ** ** ** ** ** ** **	314.	25004	Delma tincta			
317.   2.5	315.	25468	Demansia psammophis (Yellow-faced Whipsnake)			
318.   24200 Develorage of year (Panel Vinetaing Ducks)	316.	25295	Demansia psammophis subsp. cupreiceps (Yellow-faced Whipsnake)			
319. Devo Jurage  220. Diagnopiage maching in maphropy in maphropy in 2011. Diagnopiage maching in maphropy in maphropy in maphropy in 2012. Diagnopiage maching in maphropy in maphropy in 2012. Diagnopiage maching in part of 2013. Diagnopiage of part (2013)  232. Diagnopiage of part (2013)  233. Diagnopiage of part (2013)  234. Diagnopiage of part (2013)  235. Diagnopiage of part (2013)  236. Diagnopiage of part (2013)  237. Diagnopiage of part (2013)  238. Diagnopiage of part (2014)  239. APTSS: Diagnopiage in part (2014)  239. Diagnopiage of part (2014)  239. Diagnopiage of part (2014)  230. Diagnopiage of part (2014)  230. Diagnopiage of part (2014)  231. Diagnopiage of part (2014)  232. Diagnopiage of part (2014)  233. Diagnopiage of part (2014)  234. Diagnopiage of part (2014)  235. Diagnopiage of part (2014)  236. Diagnopiage of part (2014)  237. Diagnopiage of part (2014)  238. Diagnopiage of part (2014)  239. Diagnopiage of part (2014)  239. Diagnopiage of part (2014)  240. Echonomia machinale (2014)  241. Echonomiae of part (2014)  242. Epigrapia governati  243. Echonomiae of part (2014)  244. Epigrapiage of part (2014)  244. Epigrapiage of part (2014)  245. Part (2014)  246. Part (2014)  247. Part (2014)  248. Part (2014)  249. Diagnopiage of part (2014)  249. Diagnopiage of part (2014)  240. Echonomiae of part (2014)  241. Epigrapiage of part (2014)  242. Epigrapiage of part (2014)  243. Epigrapiage of part (2014)  244. Epigrapiage of part (2014)  245. Part (2014)  246. Part (2014)  247. Experiment (2014)  248. Part (2014)  249. Diagnopiage of part (2014)  249. Diagnopiage of part (2014)  240. Echonomiae of part (2014)  241. Experiment (2014)  242. Epigrapiage of part (2014)  243. Experiment (2014)  244. Experiment (2014)  245. Part (2014)  246. Part (2014)  247. Experiment (2014)  248. Part (2014)  249. Diagnopiage of part (2014)  249. Diagnopiage of part (2014)  240. Experiment (2014)  241. Experiment (2014)  242. Experiment (2014)  243. Experiment (2014)  244. Experiment (2014)  245. Diagnopiage o	317.		Deminutiocandona 'atope' (PSS)			Υ
20. Disprépar coloring   22. Disprépare temperal hargénage   22. Disprépare temperal hargénage   23. Discondigne april 1981   23. Disprépare de plante april 1982   23. Disprépare de plante   23. Disprépare purises   23. Disprépare purises   23. Disprépare purises   23. Disprépare de plante   23. Disprépare purises   23. Disprépare de plante   23. Disprépare purises   23. Disprépare de plante   24. Disprépare de plante   24. Disprépare de plante   25. Disprépare de plante   26. Disprépare de plante   27. Disprépare de plante   27. Disprépare de plante   27. Disprépare	318.	24325	Dendrocygna eytoni (Plumed Whistling Duck)			
321. Disspicetors fromphropy in hospitality or part of the company	319.		Dero furcata			
Department angularistation   Decarding application   Department   Dep	320.		Diacyclops cockingi			
333. Dicrearcytorius spolitaria (1974) 355. Dillingia sp. Pf (1974) 356. Dillingia sp. Pf (1974) 357. Origination per sport of per (1974) 358. Origination per sport of per (1974) 359. 47932. Diphotocrete piporostate (1974) 350. Diphotocrete piporostate (1974) 350. Diphotocrete piporostate (1974) 351. 24940. Diphotocrete anotheria (Comanion Diagram) 352. 43940. Diphotocrete anotheria (Comanion Diagram) 353. Discrete (1974). Diphotocrete anotheria (Comanion Diagram) 353. Discrete (1974). Diphotocrete anotheria (Comanion Diagram) 353. Discrete (1974). Discrete (19			Diacyclops humphreysi humphreysi			
25.4.   Discontinuity as pr M (PW)			Diaphanosoma unguiculatum			
355.         Diffugilia sa. Pf           367.         Diplenotes Epiporentias           367.         Diplenotes Epiporentias           368.         47878. Diplenotes Epiporentias           370.         APRIL Diplenotes (Polistand (Polistan Fish India Gorden)           381.         42480. Diplenotes (or compositions, Effective Gorden)           381.         42480. Diplenotes (or compositions, Effective Gorden)           382.         42690. Diplenotes (or compositions)           383.         Descriptions and activities (Emul)           384.         Descriptions and activities (Emul)           385.         Descriptions (Emul)           386.         Polistance (Emul)           387.         Promitiae (Vining Mallie)           388.         Estative resolutions (Emul)           389.         Estative resolutions (Emul)           381.         Esperim garantin           382.         Esperim garantin           383.         Esperim garantin           384.         Esperim garantin           385.         Esperim garantin           384.         Esperim garantin (Emilian Fish (Emilian Fish)           385.         Esperim garantin (Emilian Fish (Emilian Fish)           386.         28000 (Emilian Fish (Emilian Fish (Emilian Fish (Emilian Fis	323.		Dicranophorus epicharis			
38. Directors processes  39. Applications playments  39. Diplications playments  39. Diplications playments  39. Diplications playments  39. Diplications playment in the playment (Periodication)  39. April 20. Diplication playment (Periodication)  39. April 20. Diplication playment (Periodication)  39. April 20. Diplication playment (Periodication)  39. Diplication playments  39. Enhances resources  39. Expertation proceed (Periodication)  39. Experiodication proceed (Periodication)  39. Expertation proceed (Per	324.		Dicrotendipes sp P4 (PSW)			
307.   Diplacender bipurnistes			Difflugia sp. P1			
398.   Application horisonatories	326.		Dineutus australis			
328,   4792   Diplocksylva Bylybrar Fakshaled Gorko)	327.		Diplacodes bipunctata			
330.   24/02   Delivotache conspiciolises Fat railed Goden			Diplacodes haematodes			
331. 42490 Dipotocyclus puckner 332. 4040 Dipotocyclus puckner 333. Dischistorius denniforatio Dischistorius denniforation 336. Dischistorius denniforation Dischistorius purcetta 337. Dischistorius purcetta 338. Dischistorius purcetta 340. Echistorius aucuretta 341. Economica 3 342. Egreta purcetta 343. Egreta nucretalius 344. Estinus actilius 3 345. Estinus actilius 3 346. 24200 Elinus canariborius (Bioch-chiculiare of Kile) 346. 24300 Elinus canariborius (Bioch-chiculiare of Kile) 347. Elipopharianius 348. 47931 Estinus picture (Parineter Fireh) 349. Estinus activitis Chistorius (Pullational Dischistorius Chistorius Chistoriu	329.	47932	Diplodactylus bilybara (Western Fat-tailed Gecko)			
332. 4200 Disportance authorities Commonous Disports 335. Disportance purcetors 336. Disportance purcetors 337. Disportance purcetors 338. 2447 Dismostra independent (Emu) 337. Disportance intergularies 338. Dyfisionous principalis 339. Echanisis resultantes 341. Echanisis resultantes 341. Echanisis resultantes 342. Egente novembelloridate 343. Egentes resultantes 344. Estructural disportantes 345. 25540 Elance sonortiona (Block-chouldored Kitte) 346. 25540 Elance sonortiona (Block-chouldored Kitte) 347. Elance actività 348. 47837 Elasyomis melanopa (Black-chouldored Kitte) 349. 2408 Enrice conductors subopa, availlaris (Australian Block-chouldored Kitte) 340. Estructural disportante (Black-chouldored Kitte) 341. Especialis australia? 342. Especialis australia? 343. Especialis australia? 344. 2403 Errolizante politicul (Planing Compositional State Compos	330.	24926	Diplodactylus conspicillatus (Fat-tailed Gecko)			
Discharbackus daminismasis  338. Discharbackus daminismasis  339. Discharbackus daminismasis  330. Discharbackus daminismasis  331. Discharbackus daminismasis  332. Discharbackus daminismasis  333. Dyistocides ap.  334. Discharbackus daminismasis  340. Echichra reductiona  341. Ezronariona ap.  342. Egrata parzetta  343. Egrata parzetta  344. Esrona reductiona  345. Zesta Estanus celeulus (Black-shouldreed Kile)  346. Estanus celeulus (Black-shouldreed Kile)  347. Elips havialorias  348. Val 378. Eleoporius maleniona (Black-shouldreed Kile)  349. Zesta Eliminisma maleniona (Black-shouldreed Kile)  340. Engrusius maleniona (Black-shouldreed Kile)  341. Engrata sina maleniona (Black-shouldreed Kile)  342. Elips havialorias  343. Engrata sina maleniona (Black-shouldreed Kile)  344. Elips havialorias  345. Engrata sina maleniona (Black-shouldreed Kile)  346. Engrusius sina maleniona (Black-shouldreed Kile)  347. Elips havialorias  348. Engrata sina maleniona (Black-shouldreed Kile)  349. Zesta Endrata policium (Famined Finch)  350. Engrata sina sinalias  351. Endratus desentiona  352. Esphalophis greyae  353. Estophis reseivajilus  354. Zesta Engrata policium (Rongrove Robin)  355. Zesta Ephalophis greyae  366. Ephalophis sinalias conditiona  367. Ephypirinychus sindicus subsp. australis (Black-nocled Stork)  368. Epinophis sinalias conditiona  369. Epinophisus malenionau  360. Epinophisus malenionau  361. Epinophisus malenionau  362. Epinophisus malenionau  363. Epinophisus malenionau  364. Epinophisus sinalias  365. Epinophisus sinalias  366. Epinophisus sinalias  367. Epinophisus sinalias  368. Epinophisus sinalias  369. Epinophisus sinalias  370. Zesta Equis scalas (Krest Need Ontore)  371. Zesta Equis scalas (Krest Need Ontore)  372. Zesta Equis scalas (Robert Need Ontore)  373. Zesta Equis scalas (Robert Need Ontore)  374. Zesta Equis scalas (Robert Need Ontore)  375. Zesta Equis scalas (Robert Need Ontore)  376. Zesta Equis scalas (Robert Need Ontore)  377. Zesta Equis scalas (Robert Need Ontore)  378. Zesta						
	332.	42400	Diporiphora adductus (Carnarvon Dragon)			
335. Despane punctate 336. Despane punctate 337. Drambus triangularis 338. Dytacidae sp. 340. Echorian naturious 340. Echorian naturious 341. Ecnomidae sp. 342. Egrette grazette 343. Egrette novaeholinnriae 344. Estanus anillaris 345. Egrette anillaris (Back-shouldered Kite) 346. 24200 Elinus caeruleus subsp. ausillaris (Australian Black-shouldered Kite) 347. Elopa bramiensia 348. 24301 Elinus caeruleus subsp. ausillaris (Australian Black-shouldered Kite) 347. Elopa bramiensia 348. Englente novaeholinnriae 349. 2431 Emblema pictum (Panted Friech) 350. Engrassia melanaps (Black-fronted Dotterel) 361. Enchris desarficial 362. Elinus desarficial 363. Elinus desarficial 364. Enchris desarficial 365. Estanus desarficial 365. Enchris desarficial 366. 24365 Eposaberia pulmenimeta (Margrove Robin) 367. 24365 Eposaberia pulmenimeta (Margrove Robin) 368. Epirephalus analysophalus 369. Epirephalus analysophalus 360. Epirephalus analysophalus 361. Epirephalus analysophalus 362. Epirephalus analysophalus 363. Epirephalus analysophalus 364. Epirephalus analysophalus 365. Epirephalus analysophalus 366. Epirephalus analysophalus 367. Epiphalus analysophalus 368. Epirephalus analysophalus 369. Epirephalus analysophalus 360. Epirephalus analysophalus 361. Epirephalus analysophalus 362. Epirephalus analysophalus 363. Epirephalus analysophalus 364. Epirephalus analysophalus 365. Epirephalus analysophalus 366. Epirephalus analysophalus 367. Epiphalus analysophalus 368. Epirephalus analysophalus 369. Epirephalus analysophalus 360. Epirephalus analysophalus analysophalus 360. Epirephalus analysophalus 361. Epirephalus analysophalus 362. Epirephalus analysophalus 363. Epirephalus analysophalus 364. Epirephalus analysophalus 365. Epirephalus analysophalus 366. Epirephalus analysophalus 367. Epiphalus analysophalus 368. Epirephalus analysophalus 369. Epirephalus analysophalus 369. Epirephalus analysophalus 360. Epirephalus analysophalus 361. Epirephalus analysophalus 362. Epirephalus analysophalus 363. Epirephalus analysophalus 364. Epi						
336			·			
337, Drombus triangularies 338, Eichereis miscroles 340, Echidran neutuosa 341, Echidran neutuosa 342, Egretta garzetta 343, Egyetta novaeholandiae 344, Elanus axillaris 345, Egyetta oxarileus (Block-shouldered Kile) 346, 2490 Elanus caeruleus (Block-shouldered Kile) 347, Elaps kenniensis 348, 47837 Elseyamis melanopa (Black-fronted Dotteral) 349, 2431 Elseyamis melanopa (Black-fronted Dotteral) 349, 2432 Emblerna pictum (Panted Friich) 350, Engalus australis? 351, Enochrus deserticola 352, Enterpela of Inacutis (PSW) 353, Eokaphus seeksacialus 354, Estas Separaling Julentelinat (Mangrove Robin) 355, 2530, Ephalophis groyae 356, 2430 Ephalophis groyae 357, Ephydridee sp. 368, Epinephelus australis? 369, Epinephelus endocatus 360, Epinephelus endocatus 360, Epinephelus maibaborus 361, Epinephelus maibaborus 362, Epinephelus maibaborus 363, Epinephelus maibaborus 364, Epinephelus maibaborus 365, Epinephelus maibaborus 366, Epinephelus maibaborus 367, Epinephelus maibaborus 368, Epinephelus maibaborus 369, Epinephelus maibaborus 360, Epinephelus maibaborus 361, Epinephelus maibarorus 362, Epinephelus maibarorus 363, Epinephelus maibarorus 364, Epinephelus maibarorus 365, Epinephelus maibarorus 366, Epinephelus maibarorus 367, Epinephelus maibarorus 368, Epinephelus maibarorus 369, Epinephelus maibarorus 360, Epinephelus maibarorus 361, 2450 Epineman unfrons (Orange Chat) 371, 2450 Ephimarus micros (Orange Chat) 372, 2450 Ephimarus micros (Orange Chat) 373, 4404 Eremisarorus aledejis 374, 2450 Ephimarus micros (Orange Chat) 375, 2457 Epinephelus mairorus (Orange Chat) 376, 2457 Epinephelus mairorus (Orange Chat) 377, 2457 Ephydropous cortus (Rod-Arneed Dottern) 378, Eucht Martin autrons (Charles Obertern) 379, 2457 Epythogropus cortus (Rod-Arneed Dottern) 371, 2457 Epythogropus cortus (Rod-Arneed Dottern) 372, 2457 Epythogropus cortus (Rod-Arneed Dottern) 373, 2450 Epinephelus mairorus (Rod-Arneed Dottern)	335.		Drepane punctata			
338.	336.	24470	Dromaius novaehollandiae (Emu)			
339.   Echina reacutas			Drombus triangularis			
340.   Echicina nebulusia	338.		Dytiscidae sp.			
341.   Ecnomidae sp.	339.		Echeneis naucrates			
342. Egrette garzette 343. Egrette noveehollandiae 344. Elanus acelulus sullaris 345. 25540 Elanus caerulus (Black-shouldered Kite) 346. 24590 Elanus caerulus sulsp, oxilleris (Australian Black-shouldered Kite) 347. Elops hawelenish 348. 47937 Elosyoriis melanap (Black-inorited Dotteral) 349. 24631 Erinbana pictum (Pininde Tinch) 350. Engraulis australis? y 351. Enchanus disserticola 352. Enteroplea of, lacustris (PSW) 353. Eolophus roseicapillus 354. 24655 Eopstaire pulverulenta (Mangrove Robin) 355. 25362 Ephalophis grayae 356. 25362 Ephalophis grayae 357. Ephydridea sp. 358. Epirephelus analycephalus 369. Epirephelus analycephalus 360. Epirephelus analycephalus 361. Epirephelus analycephalus 362. Epirephelus analycephalus 363. Epirephelus multinotatus 364. Epirephelus multinotatus 365. Epirephelus multinotatus 366. Epirephelus rankin (malid) 367. Epirephelus rankin (malid) 368. Epirephelus rankin (malid) 370. 24568 Ephinaura austrinos (Orange Chal) 371. 24570 Ephinaura sichore (Criman Chal) 372. 24681 Epirephelus sichepis 373. 42404 Eramissichus sichepis 374. 42404 Eramissichus sichepis 375. Epirephelus rankinos (Criman Chal) 376. Eres australis 377. 24378 Epirephelus (Red-kneed Doterell) 378. 379. Erythoponya cinctus (Red-kneed Doterell) 379. 24837 Erythoponya cinctus (Red-kneed Doterell) 371. 372. 424837 Erythorinis carten (Spinifex-birty) 373. 42404 Eramissichus giolius (Western Narrow-banded Skirik, Narrow-banded Sard Swimmer) 378. 24837 Erythroponya cinctus (Red-kneed Doterell) 379. 42487 Erythropinis carten (Spinifex-birty) 371. 42487 Erythropinis carten (Spinifex-birty) 372. 42487 Erythropinis carten (Spinifex-birty) 373. 42404 Eramissichus sichus (Western Narrow-banded Skirik, Narrow-banded Sard Swimmer) 379. 424837 Erythropinis carten (Spinifex-birty) 371. 424837 Erythropinis carten (Spinifex-birty) 372. 424837 Erythropinis carten (Spinifex-birty) 373. 42404 Eramissichus seitus Scales Stone-curlow, Bach Thick-knee)						
S43. Egretta novaehollandiae  344. Elanus aculiaris  345. 25590 Elanus caeruliuus (Black-shouldered Kite)  346. 24290 Elanus caeruliuus (Black-shouldered Kite)  347. Elopa hawalenais  348. 47937 Elseyorris melanops (Black-fronted Dotterel)  349. 24631 Emblema pictum (Painted Einch)  350. Engralius australis?  351. Encontrus deserricola  352. Enteroplea cf. lacustris (PSW)  353. Elopatria puberulenta (Mangrove Robin)  354. 24653 Eopastiria puberulenta (Mangrove Robin)  355. 25582 Epinapholus sarbalis?  356. 24387 Ephippiorhynchus asiaticus subsp. australis (Black-necked Stork)  357. Ephydridae sp.  358. Einrephelus ambopothalus  369. Epinaphelus ancoedatus  361. Epinaphelus malabaricus  361. Epinaphelus malabaricus  362. Epinaphelus malabaricus  363. Epinaphelus malabaricus  364. Epinaphelus malabaricus  365. Epinaphelus malabaricus  366. Epinaphelus malabaricus  367. Epinaphelus malabaricus  368. Epinaphelus sundinocatus  369. Epinaphelus sundinocatus  360. Epinaphelus sundinocatus  361. Epinaphelus sundinocatus  362. Epinaphelus malabaricus  363. Epinaphelus malabaricus  364. Epinaphelus sundinocatus  365. Epinaphelus sundinocatus  366. Epinaphelus sundinocatus  367. Epinaphelus sundinocatus  368. Epinaphelus sundinocatus  369. Epinaphelus sundinocatus  360. Epinaphelus sundinocatus  361. Epinaphelus sundinocatus  362. Epinaphelus sundinocatus  363. Epinaphelus sundinocatus  364. Epinaphelus sundinocatus  365. Epinaphelus sundinocatus  366. Epinaphelus sundinocatus  367. Epinaphelus sundinocatus  368. Epinaphelus sundinocatus  369. Epistylis sp.  370. 24568 Epinanura auritoroc (Oranson Chat)  371. 24570 Epitrinoris cateri (Spinitex-bird)  372. 24258 Equus cabalitis (Western Narrow-banded Skink, Narrow-banded Sand  Swimmer)  373. 42494 Eremiscinicus palitics (Western Narrow-banded Skink, Narrow-banded Sand  Swimmer)  374. 4358 Ezeaus magnirosticis (Boch Stone-curlow, Boach Thick-knee)						
344.   Elanus axillaris						
345.   2540   Elanus cearuleus (Black-shouldered Kite)   347.   2489   Elanus cearuleus subsp. avillaris (Australian Black-shouldered Kite)   347.   2487   Elseyonis melanops (Black-fronted Dotterel)   348.   4783   Elseyonis melanops (Black-fronted Dotterel)   349.   2483   Emblema pictum (Painted Finch)   350.   Engraulis australis?   Y   351.   Enochrus desenticola   250.						
346. 2429 Elanus caeruleus subsp. axillaris (Australian Black-shouldered Kite) 347. Elops haveiensis 348. 4793 Elseyomis melanopa (Black-fronted Dotterel) 349. 24631 Emblema pictum (Peinted Finch) 350. Engrulis australis? Y 351. Encentus descricola 352. Enteroplea ci. facustris (PSW) 353. Colopius roseicapillus 354. 24653 Eophius roseicapillus 355. 25362 Ephalophis greyee 356. 24387 Ephippiorhymbus asiaticus subsp. australis (Black-necked Stork) 357. Ephydridae sp. 358. Epinephelus amblycephalus 359. Epinephelus amblycephalus 360. Epinephelus malbabricus 361. Epinephelus malbabricus 362. Epinephelus nalbabricus 363. Epinephelus nalbabricus 364. Epinephelus nalbabricus 365. Epinephelus nalbabricus 366. Epinephelus nalbabricus 367. Epinephelus suyanus 368. Epinephelus suyanus 369. Epinephelus suvinatus 360. Epinephelus suvinatus 361. Epinephelus suvinatus 362. Epinephelus suvinatus 363. Epinephelus suvinatus 363. Epinephelus suvinatus 364. Epinephelus suvina 365. Epinephelus suvina 367. Epinephelus suvina 368. Epinephelus suvina 369. Episylis sp 370. 2458 Epinus caballus (Horse) Y 371. 24570 Ephianura tricolor (Crimson Chat) 372. 24285 Equus caballus (Horse) Y 373. 4240 Erminosicus pallidus (Western Narrow-banded Skink, Narrow-banded Sand Swimmer) 375. 24375 Erminosicus gallidus (Western Narrow-banded Skink, Narrow-banded Sand Swimmer) 376. Ereniascincus pallidus (Western Narrow-banded Skink, Narrow-banded Sand Swimmer) 377. 24379 Erythrogonys cinctus (Red-kneed Dotterel) 378. 4793 Esteros urganisorits (Beach Stone-curlew, Beach Thick-knee)						
347.   Elops hawaiensis   348.   47937   Elseyonis melanops (Black-fronted Dotterel)						
348.         47937         Elseyornis melanops (Black-fronted Dotterel)           349.         24631         Emblema pictum (Painted Finch)           350.         Egrapulis australis?         y           351.         Encohrus deserticola         y           352.         Enteroplea C. Iscustris (PSW)         Freitroplea C. Iscustris (PSW)           353.         Eolophus roseisopillus         Freitroplea C. Iscustris (PSW)           354.         24653         Eopsaltria pulverulenta (Mangrove Robin)           355.         25362         Ephalophis greyae           356.         24937         Ephippioritynrchus assisticus subsp. australis (Black-necked Stork)           357.         Epirpiphelus amblycephalus           359.         Epirephelus amblycephalus           360.         Epirephelus amblycephalus           361.         Epirephelus Banceolatus           362.         Epirephelus quoyanus           363.         Epirephelus generalitinotatus           364.         Epirephelus sexfasciatus           365.         Epirephelus sexfasciatus           366.         Epirephelus sexfusicus           367.         Epirephelus sexfusicus           368.         Epirephelus sexfusicus           371.         2458 <td< td=""><td></td><td>24290</td><td></td><td></td><td></td><td></td></td<>		24290				
349.         24631         Emblema pictum (Painted Finch)           350.         Engraulia sustralis?         Y           351.         Enchorhus deserticola         ***           352.         Enteroplea cf. lacustris (PSW)         ***           353.         Eolophus roseicapillus         ***           354.         24635         Eopsatria pulverulenta (Mangrove Robin)         ***           355.         25362         Ephalpohis greyae         ***           357.         Ephyprididea sp.         ***           358.         Epinephelus amblycephalus         ***           359.         Epinephelus corallicola         ***           360.         Epinephelus malabaricus         ***           361.         Epinephelus malabaricus         ***           362.         Epinephelus malabaricus         ***           363.         Epinephelus malabaricus         ***           364.         Epinephelus prulituitus         Y           365.         Epinephelus prulituitus         Y           366.         Epinephelus seriascitus         ***           367.         Epinephelus seriascitus         ***           368.         Epinephelus tauvina         ***           370.			·			
350.         Engraulis australis?         Y           351.         Encohrus deserticole         ****           352.         Enteroplea of, Leaustris (PSW)         ****           353.         Eolophus roseicapillus         ****           354.         2465.         Eopsaltria pulverulenta (Margrove Robin)         ****           355.         25362.         Ephalophis greyee         ****           356.         2437         Ephippiorhyrohus asiaticus subsp. australis (Black-necked Stork)         ***           357.         Ephydridea sp.         ***           358.         Epinephelius amblycephalus         ***           359.         Epinephelius amblycephalus         ***           360.         Epinephelius lanceolatus         ***           361.         Epinephelius lanceolatus         ***           362.         Epinephelius malbairicus         ***           363.         Epinephelius quoyanus         ***           364.         Epinephelius sexissciatus         ***           365.         Epinephelius sexissciatus           367.         Epinephelius sexissciatus           368.         Epinephelius sexissciatus           370.         24588         Epitisinura aurifrons (Orange Chat) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
351.         Enchrus deserticola           352.         Enteroplea cf. Iacustris (PSW)           353.         Eolophus roseiapillus           354.         24653         Eopsaltria pulverulenta (Mangrova Robin)           355.         25362         Ephalopinis greyae           356.         24307         Ephippiorhynchus asiaticus subsp. australis (Black-necked Stork)           357.         Ephyphiridae sp.           358.         Epinephelus amblycephalus           359.         Epinephelus analboricus           360.         Epinephelus analboricus           361.         Epinephelus multinotatus           362.         Epinephelus multinotatus           363.         Epinephelus aukini (invalid)         Y           365.         Epinephelus sexiasciatus           366.         Epinephelus sexiasciatus           367.         Epinephelus sexiasciatus           368.         Epinephelus tauvina           370.         24568         Epitianura aurifrons (Orange Chat)           371.         2450         Epitianura tricolor (Grimson Chat)           372.         24588         Equius caballus (Western Narrow-banded Skirik, Narrow-banded Sand Swimmer)           375.         24837         Eremiascincus isolepis		24631				
352.   Enteroplea cf. lacustris (PSW)			-			Υ
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355.       25362       Ephalophis greyae         366.       24387       Ephippiorhynchus asiaticus subsp. australis (Black-necked Stork)         357.       Ephydridae sp.         358.       Epinephelus amblycephalus         359.       Epinephelus corallicola         360.       Epinephelus anceolatus         361.       Epinephelus multinotatus         362.       Epinephelus quoyanus         363.       Epinephelus quoyanus         364.       Epinephelus sarkini (Invalid)       Y         365.       Epinephelus sexiasciatus         366.       Epinephelus sexiasciatus         367.       Epinephelus tauvina         368.       Epinephelus tauvina         369.       Epistylis sp         370.       24568       Ephinaura tricolor (Crimson Chat)         371.       24570       Eptinaura tricolor (Crimson Chat)         372.       24258       Equa caballus (Horse)       Y         374.       43381       Eremisacincus jaellidus (Western Narrow-banded Skink, Narrow-banded Sand Swimmer)       Swimmer)         375.       24837       Erminoris carteri (Spinifex-bird)         376.       Eretes australis         377.       24378       Erythrogonys cincus (Red-kneed Dotterel)<		0.4050				
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364.       Epinephelus rankini (invalid)       Y         365.       Epinephelus rivulatus						
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368.       Epinephelus tauvina         369.       Epistylis sp         370.       24568       Epthianura aurifrons (Orange Chat)         371.       24570       Epthianura tricolor (Crimson Chat)         372.       24258       Equus caballus (Horse)       Y         373.       42404       Eremiascincus isolepis         374.       43381       Eremiascincus pallidus (Western Narrow-banded Skink, Narrow-banded Sand Swimmer)         375.       24837       Eremiornis carteri (Spinifex-bird)         376.       Eretes australis         377.       24379       Erythrogonys cinctus (Red-kneed Dotterel)         378.       47938       Esacus magnirostris (Beach Stone-curlew, Beach Thick-knee)						
369.       Epistylis sp         370.       24568       Epthianura aurifrons (Orange Chat)         371.       24570       Epthianura tricolor (Crimson Chat)         372.       24258       Equus caballus (Horse)       Y         373.       42404       Eremiascincus isolepis         374.       43381       Eremiascincus pallidus (Western Narrow-banded Skink, Narrow-banded Sand Swimmer)         375.       24837       Eremiornis carteri (Spinifex-bird)         376.       Eretes australis         377.       24379       Erythrogonys cinctus (Red-kneed Dotterel)         378.       47938       Esacus magnirostris (Beach Stone-curlew, Beach Thick-knee)						
370.       24568       Epthianura aurifrons (Orange Chat)         371.       24570       Epthianura tricolor (Crimson Chat)         372.       24258       Equus caballus (Horse)       Y         373.       42404       Eremiascincus isolepis         374.       43381       Eremiascincus pallidus (Western Narrow-banded Skink, Narrow-banded Sand Swimmer)         375.       24837       Eremiornis carteri (Spinifex-bird)         376.       Eretes australis         377.       24379       Erythrogonys cinctus (Red-kneed Dotterel)         378.       47938       Esacus magnirostris (Beach Stone-curlew, Beach Thick-knee)						
371.       24570       Epthianura tricolor (Crimson Chat)         372.       24258       Equus caballus (Horse)       Y         373.       42404       Eremiascincus isolepis         374.       43381       Eremiascincus pallidus (Western Narrow-banded Skink, Narrow-banded Sand Swimmer)         375.       24837       Eremiornis carteri (Spinifex-bird)         376.       Eretes australis         377.       24379       Erythrogonys cinctus (Red-kneed Dotterel)         378.       47938       Esacus magnirostris (Beach Stone-curlew, Beach Thick-knee)		0.4500				
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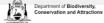
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1981   1982   Filos tongopomis (Australian Hobby)						
392.         247F Fatos uninger (Black Fators)           393.         Fels notes (Cat)         Y           396.         Ferocotom multilations         Y           398.         Francisch projectes         Francisch projectes           398.         Francisch and Michigan (Michigan Park)         Francisch projectes           398.         Francisch and Michigan (Michigan Park)         Francisch (Michigan Park)           400.         25727 (Valles et al. Eurasian Coul)         Francisch (Michigan Park)           401.         22570 (Salirable philippross (Kult-Landed Fail)           402.         22770 (Salirable philippross (Kult-Landed Fail)           403.         24757 (Salirable philippross (Kult-Landed Fail)           404.         42714 (Salirable philippross (Kult-Landed Fail)           405.         24905 (Schyra phyramsons           406.         24905 (Schyra phyramsons           407.         24605 (Schyra phyramsons           408.         24017 (Schyra phyramsons           409.         24020 (Schyra phyramsons           410.         24101 (Schyra phyramsons           411.         24102 (Schyra phyramsons           412.         2656 (Schyra phyramsons           413.         24005 (Schyra phyramsons           414.         24101 (Schyramsonso	390.	24472	Falco cenchroides subsp. cenchroides (Australian Kestrel, Nankeen Kestrel)			
393.   Falle notes	391.	25623	Falco longipennis (Australian Hobby)			
394.   2401   Felia Cassa (Call)   Y	392.	24476	Falco subniger (Black Falcon)			
995. Ferrocochin multierianiae 936. Filina in projectese 937. Filina in projectese 938. Estadaria potimiba 938. Filina de Controlla (White berlind Mangrove Snoker) 938. Filina de Controlla (White berlind Mangrove Snoker) 940. 2027 Fullow and Perinavian Condit 941. 2020 Filina ormania (Monor Snoker) 942. 2023 Filina ormania (Monor Snoker) 943. 2476 Galitarilas philipponesis multipo, malbini (Bull Februaria) 943. 2476 Galitarilas philipponesis multipo, malbini (Bull Februaria) 944. 24714 Galitarilas philipponesis multipo, malbini (Bull Februaria) 945. 2485 Galityra piblian 946. 2485 Gellyra purciani 947. 2485 Gellyra purciani 948. 2485 Gellyra purciani 949. 2485 Gellyra purciani 949. 2485 Gellyra purciani 940. 2485 Gellyra purciani 941. 2440 Geopolia currona (Falamond Dove) 9411. 2440 Geopolia currona (Falamond Dove) 9412. 20569 Geopolia steton (Zobro Dove) 9413. 2480 Geopolia steton (Zobro Dove) 9414. 2480 Geopolia steton (Zobro Dove) 9415. Garros Sammenia (Barristoulevind Dove) 9416. Garros Sammenia (Barristoulevind Dove) 9417. Careas as 9418. Garros soprona 9419. Garrista steto (Zobro Dove) 9420. 20551 Geopolia steton (Zobro Dove) 9421. 2480 Geopolia steton (Zobro Geopolia Dove) 9422. Galitaria steto (Zobro Geopolia Galitaria steto) 9440 Geopolia steton (Zobro Geopolia Galitaria steto) 9441 Garrista steto (Zobro Geopolia Galitaria steto) 9441 Garrista steto (Zobro Geopolia Galitaria steto) 9442 Geopolia steto (Zobro Geopolia Galitaria steto) 9443 Garrista steto (Zobro Geopolia Galitaria steto) 9444 Garrista steto (Zobro Geopolia Galitaria steto) 9445 Galitaria steto (Zobro Geopolia Galitaria steto) 9446 Geopolia steto (Zobro Geopolia Galitaria steto) 9447 Geopolia stetos (Galitaria steto) 9448 Galitaria stetos (Galitaria steto) 9449 Geopolia stetos (Galitaria steto) 9440 Geopolia stetos (Galitaria steto) 9441 Galitaria stetos (Galitaria steto) 9442 Geopolia stetos (Galitaria steto) 9444 Geopolia stetos (Galitaria steto) 9445 Halitaria stetos (Galitaria steto) 9446 Halitaria stetos (Galitaria steto) 9447 Geopol	393.		Feia nota			Υ
386.   Filima Iongseta   Filima Iongseta   Filima Iongseta   Security   S	394.	24041	Felis catus (Cat)	Υ		
397.   Fistulatina perintina			Feroxodon multistriatus			
398. 2537 Fortothol hucuchalin (White-belled Mangrove Stocke) Figilistics (mix (Mix ) Lange Bertal) 400. 2577 Fulton aira (Eurasian Coord) 401. 2539 Furnia consist (Moon Shale) 402. 2573 Galifanta philipporas (Balf Shandord Rail) 403. 24765 Galifanta philipporas (Balf Shandord Rail) 404. 42741 Garocian Shipporas (Balf Shandord Rail) 405. 24952 Galifanta philipporas (Balf Shandord Rail) 406. 24952 Galifyra australia 407. 24958 Galfyra punchata 408. 24958 Galfyra punchata 408. 24958 Galfyra punchata 409. 34959 Galfyra punchata 409. 24959 Calfyra punchata 409. 24950 Galfyra inchata 410. 24404 Geopola Cuntada (Darnord Dove) 411. 24402 Geopolia humanalis (Bar shouldored Dove) 412. 25555 Geopolia shandoralis (Bar shouldored Dove) 413. 24404 Geopola plumfora (Spintar Pipeor) 414. 24404 Geopola plumfora (Spintar Pipeor) 415. Garra Barmatous 416. Garra syana 417. Georgan Punchata 418. Garra syana 419. Geopola Carra (Spintar Pipeor) 420. 25531 Geopola minoralis (Bar Shouldored Dove) 421. 24967 Geopola plumfora (Spintar Pipeor) 422. Geopola Shandora (Spintar Pipeor) 423. Geopola Shandora (Spintar Pipeor) 424. Geopola Shandora (Spintar Pipeor) 425. 24404 Geopola Shandora (Spintar Pipeor) 426. Carra syana 427. Galfanta (Spintar Pipeora) 428. Geopola Shandora (Spintar Pipeora) 429. Geopola Shandora (Spintar Pipeora) 420. 25531 Geopola Shandora (Spintar Pipeora) 421. Geopola Shandora (Spintar Pipeora) 422. Geopola Shandora (Spintar Pipeora) 423. Geolodia spi. 424. Geopola Shandora (Spintar Pipeora) 425. 2444 Gara Euchandora (Spintar Pipeora) 426. Carra Shandora (Spintar Pipeora) 427. Galifanta syandora (Spintar Pipeora) 428. Gymmanora puncha (Spintar Pipeora) 439. Gymmanora puncha (Spintar Pipeora) 430. Gymmanora puncha (Spintar Pipeora) 431. 24527 Hainatar (Spintar Pipeora) 432. 4444 Gara Euchandora (Spintar Pipeora) 433. 24447 Hainatar (Spintar Pipeora) 444. Hainatar Shandora (Spintar Pipeora) 445. Hainatar Shandora Shandora (Spintar Shandora) 446. Hainatar Shandora Shandora Shandora (Spintar Shandora) 447. Hainatar Shandor			-			
399.         Frigoliania ultra (Ntz.) Langue Bertaint           400.         2577 Fischia comata (Moon Sriake)           401.         2530 Fischia prilapprofesa suderb product Rull)           402.         2573 Guillraitus philisprorea (suderb product Rull)           403.         2474 Suderialis untertale           404.         4231 d. Cariodis vireaceurs (Shinjun) Moneyenter)           405.         24956 Gehym publicore           406.         24956 Gehym publicore           407.         24988 Gehym purpursaseera           408.         24957 Gehym purpursaseera           409.         24940 Geoppela suriental (Earth Olive)           411.         24401 Geoppela Curvatu (Damond Dove)           412.         25555 Geoppela siriata (Earth Olive)           413.         24402 Geoppela siriata (Earth Olive)           414.         24403 Geoppela siriata (Earth Olive)           415.         George Geoppela siriata (Earth Olive)           416.         Gernes Gardina Subra, procincial (Ponotul Dive)           417.         Gernes Gardina Subra, procincial (Ponotul Dive)           418.         Gernes Gardina Subra, procincial (Ponotul Dive)           421.         Gernes Gardina Subra, procincial (Ponotul Dive)           422.         Geopdena subralasia (Ponotul Dive)           423. </td <td></td> <td>05007</td> <td>·</td> <td></td> <td></td> <td></td>		05007	·			
400.         25727 Fallon atra (Eurasino Cool)           401.         25050 Fairo carda (Moon Saale)           402.         25730 Gallinalius philippersisis (Buft-banded Rail)           403.         24755 Gallinalius philippersisis subsp. mellori (Buft-banded Rail)           404.         42415 Gaucusai suracarus (Singing) Floriayesiter)           405.         24955 Gethyra purcitate           407.         24956 Gethyra purcitate           408.         24957 Gethyra purcitate           409.         24956 Gethyra purcitate           410.         24957 Gethyra curentate           411.         24401 Geopolina curenta (Plamord Dove)           411.         24402 Geopolina tumeniasi (San-bauldstred Dove)           412.         25955 Geopolina straina (Zabra Dove)           413.         24040 Geopolina pluminiari (San-bauldstred Dove)           414.         24041 Geopolina pluminiari (San-bauldstred Dove)           415.         Geopolina straina (Zabra Dove)           416.         Zabra Geopolina straina (Zabra Dove)           417.         Geopolina straina (Zabra Dove)           418.         George Sandards (Sandardstream)           419.         German Geopolina straina (Sandardstream)           420.         25531 Geopolina bostocki           421.         Geopolina		25327				
401. 25301 Furing amala (Moor Snake) 402. 25730 Gallinalus philippensis susp. melori (Buff-banded Rail) 403. 24765 Gallinalus philippensis susp. melori (Buff-banded Rail) 404. 42714 Gardusis virescores (Singing-Moneyester) 405. 24952 Gehyra piltura 406. 24955 Gehyra piltura 407. 24958 Gehyra piltura 408. 24957 Gehyra purpurascores 409. 24959 Gehyra purpurascores 410. 24410 Geopolis cureata (Dalmand Dove) 411. 24410 Geopolis cureata (Dalmand Dove) 412. 25555 Geopolis sirtina subsp. pilocidi Poecelul Dove) 413. 24403 Geopolis sirtina subsp. pilocidi (Poecelul Dove) 414. 24404 Geopolis purtifica (Polyria Pigeori) 415. Gerres sirtina subsp. pilocidi (Poecelul Dove) 416. Gerres (Samenicoss) 417. Gerres subfascialus 419. Gerres subfascialus 419. Gerres subfascialus 419. Gerres subfascialus 420. 2551 Geopolis arbita (Subsp. Geopolis) 421. 2426 Geopolis arbita (Subsp. Geopolis) 422. Gigodoma bostocid 423. Goldodom ap. (Mary Corporis (Pogoni) 424. Gomphorene paravium (Kitt.) Kitt. 425. 24445 Gellang cynnolisus (Bolga) 427. Guineaxonopais ap. 81 (PSS) 428. Gymandrosa pictus 439. Gymandrosa pictus 430. Gymandrosa pictus 431. 25527 Haenatopus Infiginosus subsp. ophthalmicus (Scoty Oystercatcher) 432. 4446 Haenatopus Infiginosus subsp. ophthalmicus (Scoty Oystercatcher) 433. 2447 Haliastur datus (Scathmiry Kite) 434. Haliastur datus (Scathmiry Kite) 435. 2428 Haliastur datus (Scathmiry Kite) 436. 2448 Haliastur datus (Scathmiry Kite) 437. 4480 Haliastur datus subsp. gimenros (Brahmiry Kite) 438. 24257 Haliastur sphannus (Whetling Kite) 440. Haliaboeres ap. 441. Haliastur datus subsp. gimenros (Brahmiry Kite) 441. Haliastur datus subsp. gimenros (Brahmiry Kite) 442. Haliastur datus subsp. gimenros (Brahmiry Kite) 443. Haliastur datus subsp. gimenros (Brahmiry Kite) 444. Haliastur datus subsp. gimenros (Brahmiry Kite) 445. Haliastur datus subsp. gimenros (Brahmiry Kite) 446. Haliastur datus subsp. gimenros (Brahmiry Kite) 447. Haliastur subsp. gimenros (Brahmiry Kite) 448. Haliastur subsp. gimenros (Brahmiry Kite) 449. Halias		25727				
402.         25730 Gallimlius philippenesis sustp. mellori (Buff-banded Rail)           403.         24785 Gallimlius philippenesis sustp. mellori (Buff-banded Rail)           404.         42314 Gavicalis vinescens (Singing Thonyesiter)           405.         24955 Gehyya putertale           407.         24856 Gehyya purketale           408.         24957 Gehya purketale           409.         24956 Gehya purketale           410.         24957 Gehya purketale           411.         24026 Geoplein humenial (Sara-Bouldever)           412.         2403 Geoplein striata (Sara-Doublewel)           413.         24403 Geoplein striata subsp. placida (Peacoful Dove)           414.         24404 Geoplein striata subsp. placida (Peacoful Dove)           415.         Gerses plaminetics (Sparles: Pignori)           416.         Gerses subfascalats           417.         Gerses subfascalats           418.         Gerses subfascalats           429.         25531 Gerygone levigaster (Mangrove Genygone)           421.         24276 Gerygone interhosis (Dusky Genygone)           422.         Gepadema bostopid           423.         Gebidon sp.           424.         Gerygone purketale (Megnis-bufy)           425.         24443 Granicante (Bergal)						
403. 24755 Gallicullus philipponesis subsp. moltori (Buff-banded Rall) 404. 42314 Gallicullus philipponesis subsp. moltori (Buff-banded Rall) 405. 24952 Gethyra pustealis 406. 24955 Gethyra pustealis 407. 24955 Gethyra purpurascens 408. 24957 Gethyra purpurascens 409. 24959 Gallyra wardingdia 410. 24401 Geopolia cumenta (Diamond Dove) 411. 24402 Geopolia striata (Zabra Dove) 412. 25955 Geopolia striata (Zabra Dove) 413. 24403 Geopolia striata (Zabra Dove) 414. 24404 Geopolia striata (Zabra Dove) 415. Gerres Suphacia (Zabra Dove) 416. Gerres suphacia (Zabra Dove) 417. Gerres suphacia (Zabra Dove) 418. Gerres suphacia (Zabra Dove) 419. Gerres suphacia (Zabra Dove) 420. 25531 Gergona terrebotas (Duský Gergona) 421. 2476 Gergona terrebotas (Duský Gergona) 422. Gipadema bostocki 423. Goldočen ap. 424. Goldočen ap. 425. 2444 Grillande portobeus (Malagin-lark) 426. 2444 Grillande portobeus (Malagin-lark) 427. Girippona portobeus (Malagin-lark) 428. Gymnothorax pictus 429. Gymnothorax pictus 430. Gymnothorax pictus 431. 25527 Helenstopus fulginjonus subsp. Opithalmicus (Scoty Oystercatcher) 432. 4448 Galliande ap. 1 (PSS) 433. 24487 Heliacatur indus subsp. Gerribraticus (Scoty Oystercatcher) 434. Heliacatur indus subsp. giripratus subsp. Golythalmicus (Scoty Oystercatcher) 435. 2423 Heliacatur indus subsp. Gerribraticus (Scoty Oystercatcher) 436. 2434 Heliacatur indus subsp. Gerribraticus (Scoty Oystercatcher) 437. 2434 Heliacatur indus subsp. Gerribraticus (Scoty Oystercatcher) 438. 4436 Heliacatur indus subsp. Gerribraticus (Scoty Oystercatcher) 439. Helichorera sp. 440. Helichorera sp. 441. Helichorera sp. 441. Helichorera sp. 442. Helichorera sp. 443. Helichorera sp. 444. Helichorera sp. 444. Helichorera sp.			,			
404.         42314 Cavicals virescense (Singing Honeyesier)           405.         24955 Cehyra pilitaria           407.         24956 Cehyra pilitaria           408.         24957 Cehyra pilitaria           408.         24957 Cehyra pilitaria           409.         24958 Cehyra pilitaria           410.         24040 Ceopcella curatea (Domond Dove)           411.         24402 Ceopcella furmentia (Ban-shouldered Dove)           412.         25565 Ceopcella striata a (Ebra Dove)           413.         24403 Ceopcella striata subap placida (Peacetal Dove)           414.         24403 Ceopcella striata subap placida (Peacetal Dove)           414.         24403 Ceopcella striata subap placida (Peacetal Dove)           415.         Gerres coyena           416.         Gerres subfasciatus           417.         Gerres aubfasciatus           418.         Gerres aubfasciatus           420.         25531 Cerypone revigester (Mangrove Gergone)           421.         22476 Cerypone levipster (Mangrove Gergone)           421.         22476 Cerypone reverbirosa (Jusiy Cerypone)           422.         Giobiodin ap.           423.         Gobiodin ap.           424.         Giordinorisa produleus (Maggiel-lank)           428.         Gymno						
405.         2495. Gehyra australis           406.         2485. Gehyra purcata           407.         2495. Gehyra purcata           408.         2495. Gehyra purcata           409.         2495. Gehyra purcata           410.         2440. Geopelia turneralis (Ban-shouldered Dove)           411.         2440. Geopelia siriasi aubta, placida (Peacelul Dove)           413.         2400. Geopelia siriasi aubta, placida (Peacelul Dove)           414.         2404. Geopelia plumilera (Spinike Pigeon)           415.         Gerres (Bimentosus           416.         Gerres so,           417.         Gerres so,           418.         Gerres so,           420.         25531           421.         2427.           422.         25531           423.         Gobodon sp.           424.         Goophone breadstar (Magnes Georgene)           425.         2443.           426.         Gerpane bostocki           427.         Guineaxonopsis sp. Sf (PSS)           428.         Guymonbroax parculam (Kitiz.) Kitiz.           428.         Guymonbroax pictura           429.         Gymonbroax undulatus           430.         Gymonbroax undulatus <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
407. 2498 Geltyra puretata 408. 2495 Geltyra puretata 409. 2495 Geltyra purpurascens 410. 24401 Geopelia Lumeralia (Bar-shouldered Dove) 411. 24402 Geopelia Lumeralia (Bar-shouldered Dove) 412. 25595 Geopelia striata (Zabra Dove) 413. 24403 Geopelia striata (Zabra Dove) 414. 24404 Geopelia striata (Zabra Dove) 415. Gerres (Barneriosus 416. Gerres (Barneriosus 417. Gerres suphasclatura 417. Gerres suphasclatura 418. Gerres suphasclatura 419. Gerredae sp. 420. 25531 Gerygone levigosater (Mangrove Gerygone) 421. 24276 Gerygone levigosater (Mangrove Gerygone) 422. Gelidon sp. 423. Gelidon sp. 4244 Gradina (Kütz.) Kütz. 425. 24433 Grallina ogranioleura (Majpul-lark) 426. Gelidon sp. 427. Guineaxongosis sp. St (PSS) 428. Gymnothorax undulatus 430. Gymnura australis 431. 25627 Helemotopus (Majprosus (Sooty Oystercatcher) 432. 2446 Hars transpus fulliginosus subsp. pathalmicus (Sooty Oystercatcher) 433. 2446 Haliastur indus subsp. girnera (Red Typina) 434. Haliastur indus subsp. girnera (Red Typina) 435. 2429 Haliastur indus subsp. girnera (Red Typina) 436. 2429 Haliastur indus subsp. girnera (Red Typina) 437. 2429 Haliastur indus subsp. girnera (Red Typina) 444. Haliastur indus subsp. girnera (Red Typina) 445. Haliastura en Haliastur (Black broasted Buzzard) 446. Haliastura en Haliastur and Haliastur and Haliastur Haliast	405.					
408.         24957 Gethyra purpurascens           409.         24959 Gethyra variegatia           410.         24401 Geopelia umetata (Diamond Dove)           411.         24402 Geopelia straina (Zabor Dove)           412.         25595 Geopelia straina (Zabor Dove)           413.         24403 Geophia straina (Zabor Dove)           414.         24404 Geophiaps plumitera (Spinifex Pigeon)           416.         Geres supma           417.         Gerres sup           418.         Gerres sup (Geres supma Geres supma Ger	406.	24956	Gehyra pilbara			
408.         24959 Gehyra variegata           410.         24401 Geopelia Currente (Diamond Dove)           411.         24402 Geopelia Currente (Bar-shouldered Dove)           412.         25585 Geopelia striata subset, placida (Peaceful Dove)           413.         24403 Geopelia striata subset, placida (Peaceful Dove)           414.         24404 Geophaps plumilera (Spinilex Pigeon)           415.         Gerres (Biamentosus)           417.         Gerres ap.           418.         Gerres subsociatus           419.         Gerridae ap.           420.         25531 Gerygone Invigaster (Mangrove Gerygone)           421.         24276 Geoprone Invigaster (Mangrove Gerygone)           422.         Gigadema bastocki           423.         Golodon ap.           424.         Gomphonema parvulum (Kutz.) Kutz.           425.         24443 Gralina cyanoleuca (Mangrove Geophaps)           427.         Guimasanopasia ap. St (PSS)           428.         Gymnothorax undulatus           429.         Gymnothorax undulatus           430.         Gymnura australia           431.         25627 Heematopus Inliginosus (Sooty Oystercatcher)           432.         24486 Heematopus Lingininosus (Sooty Oystercatcher)           433.         242487	407.	24958	Gehyra punctata			
410.       2401 Geopelia Curreata (Diamond Dove)         411.       2402 Geopelia Intima Cabon Dove)         412.       25685 Geopelia striata Subsp. placida (Peaceful Dove)         413.       24403 Geopelia striata subsp. placida (Peaceful Dove)         414.       24040 Geopelia ps Intimitiera (Spinfex Pigeon)         415.       Gerres Riamentosus         416.       Gerres so.         417.       Gerres sp.         418.       Geres subfasciatus         419.       Gerridae sp.         420.       25531 Genygone kevigaster (Mangrove Genygone)         421.       24276 Genygone kenebrosa (Dusky Genygone)         422.       Gydoma bostocial         423.       Gobiodon sp.         424.       Gramphonema panrulum (Kütz.) Kütz.         425.       Gulmasunopais sp. St (FSS)         426.       24448 Grus rubicunata (Rrokga)         427.       Gulmasunopais sp. St (FSS)         428.       Gymnothorax pictus         430.       Gymnothorax undulutus         431.       25627 Haematopus Kuliginosus (Soaty Oystercatcher)         432.       24486 Haematopus Kuliginosus subsp. ophthalmicus (Soaty Oystercatcher)         433.       24487 Haliaestur indus (Brahminy Kite)         436.       22531 Haliaest	408.	24957	Gehyra purpurascens			
411.         24402         Geopelia humeralis (Bar-shouldered Dove)           412.         25585         Geopelia striata uSabra Dove)           414.         24404         Geophaps plumifers (Spinifex Pigeon)           415.         Gerres filamentosus           416.         Gerres oyena           417.         Gerres sp.           418.         Gerres subfasciatus           419.         Gerridae sp.           420.         25531           421.         24276           6 regone levigaster (Margrove Gerygone)           422.         Gigadema bostocki           423.         Gobiodon sp.           424.         Gomphonema parvulum (Kütz.) Kütz.           425.         24443         Grallina cyanoleusa (Magnie-lark)           426.         24448         Grunnearongais sp. 51 (PSS)           427.         Guineaxongais sp. 51 (PSS)           428.         Gymnothorax indulatus           430.         Gymnothorax indulatus           431.         25627. Heemalopus litiginosus subsp. ophthalmicus (Sooty Oystercatcher)           433.         24487. Hamenatopus litiginosus subsp. ophthalmicus (Sooty Oystercatcher)           433.         24487. Hamenatopus litiginosus subsp. ophthalmicus (Sooty Oystercatcher)           4	409.	24959	Gehyra variegata			
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434. Halacaridae sp. 1 (PSS)  435. 24293 Haliaeetus leucogaster (White-bellied Sea-Eagle)  436. 25541 Haliastur indus (Brahminy Kite)  437. 24294 Haliastur indus subsp. girrenera (Brahminy Kite)  438. 24295 Haliastur sphenurus (Whistling Kite)  439. Halichoeres nebulosus  440. Halichoeres sp.  441. Haliplus sp.  442. Halophryne diemensis  443. Halophryne ocellatus  444. 24297 Hamirostra melanosternon (Black-breasted Buzzard)  445. Hantzschia amphioxys (Ehr.) Grun.  446. Hebridae sp.						
<ul> <li>436. 25541 Haliastur indus (Brahminy Kite)</li> <li>437. 24294 Haliastur indus subsp. girrenera (Brahminy Kite)</li> <li>438. 24295 Haliastur sphenurus (Whistling Kite)</li> <li>439. Halichoeres nebulosus</li> <li>440. Halichoeres sp.</li> <li>441. Haliplus sp.</li> <li>442. Halophryne diemensis</li> <li>443. Halophryne ocellatus</li> <li>444. 24297 Hamirostra melanosternon (Black-breasted Buzzard)</li> <li>445. Hantzschia amphioxys (Ehr.) Grun.</li> <li>446. Hebridae sp.</li> </ul>			, , , , , ,			
437. 24294 Haliastur indus subsp. girrenera (Brahminy Kite) 438. 24295 Haliastur sphenurus (Whistling Kite) 439. Halichoeres nebulosus 440. Halichoeres sp. 441. Haliplus sp. 442. Halophryne diemensis 443. Halophryne ocellatus 444. 24297 Hamirostra melanosternon (Black-breasted Buzzard) 445. Hantzschia amphioxys (Ehr.) Grun. 446. Hebridae sp.	435.	24293	Haliaeetus leucogaster (White-bellied Sea-Eagle)			
438. 24295 Haliastur sphenurus (Whistling Kite) 439. Halichoeres nebulosus 440. Halichoeres sp. 441. Haliplus sp. 442. Halophryne diemensis 443. Halophryne ocellatus 444. 24297 Hamirostra melanosternon (Black-breasted Buzzard) 445. Hantzschia amphioxys (Ehr.) Grun. 446. Hebridae sp.	436.	25541	Haliastur indus (Brahminy Kite)			
439. Halichoeres nebulosus  440. Halichoeres sp.  441. Haliplus sp.  442. Halophryne diemensis  443. Halophryne ocellatus  444. 24297 Hamirostra melanosternon (Black-breasted Buzzard)  445. Hantzschia amphioxys (Ehr.) Grun.  446. Hebridae sp.	437.	24294	Haliastur indus subsp. girrenera (Brahminy Kite)			
<ul> <li>440. Halichoeres sp.</li> <li>441. Haliplus sp.</li> <li>442. Halophryne diemensis</li> <li>443. Halophryne ocellatus</li> <li>444. 2429 Hamirostra melanosternon (Black-breasted Buzzard)</li> <li>445. Hantzschia amphioxys (Ehr.) Grun.</li> <li>446. Hebridae sp.</li> </ul>		24295				
<ul> <li>441. Haliplus sp.</li> <li>442. Halophryne diemensis</li> <li>443. Halophryne ocellatus</li> <li>444. 2429 Hamirostra melanosternon (Black-breasted Buzzard)</li> <li>445. Hantzschia amphioxys (Ehr.) Grun.</li> <li>446. Hebridae sp.</li> </ul>						
<ul> <li>442. Halophryne diemensis</li> <li>443. Halophryne ocellatus</li> <li>444. 24297 Hamirostra melanosternon (Black-breasted Buzzard)</li> <li>445. Hantzschia amphioxys (Ehr.) Grun.</li> <li>446. Hebridae sp.</li> </ul>			•			
<ul> <li>443. Halophryne ocellatus</li> <li>444. 24297 Hamirostra melanosternon (Black-breasted Buzzard)</li> <li>445. Hantzschia amphioxys (Ehr.) Grun.</li> <li>446. Hebridae sp.</li> </ul>						
<ul> <li>444. 24297 Hamirostra melanosternon (Black-breasted Buzzard)</li> <li>445. Hantzschia amphioxys (Ehr.) Grun.</li> <li>446. Hebridae sp.</li> </ul>						
445. Hantzschia amphioxys (Ehr.) Grun. 446. Hebridae sp.		2/207				
446. Hebridae sp.		24297				
,						
·						
448. Hemicordulia tau						







	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
449.		Hemicypris megalops			
450.	25232	Hemidactylus frenatus (Asian House Gecko)	Υ		
451.		Hemigaleus australiensis			
452.		Hemigaleus sp.			
453.		Hemiramphus robustus			
454.		Hemiscyllium trispeculare			
455. 456.		Herklotsichthys blackburni			
456.		Herklotsichthys collettei Herklotsichthys collettei?			Υ
458.		Herklotsichthys koningsbergeri			·
459.		Herklotsichthys quadrimaculatus			Υ
460.		Heterocypris sp PSW66			Y
461.	24961	Heteronotia binoei (Bynoe's Gecko)			
462.		Hexarthra mira			
463.	47965	Hieraaetus morphnoides (Little Eagle)			
464.		Hilsa kelee?			Υ
465.	25734	Himantopus himantopus (Black-winged Stilt)			
466.	24775	Himantopus himantopus subsp. leucocephalus (Black-winged Stilt)			
467.		Hippocampus sp.			
468.		Hippocampus tuberculatus			
469.	24491	Hirundo neoxena (Welcome Swallow)			
470. 471.		Holconia westralia Hydrachna sp. 4/5 (PSW)			
471. 472.		Hydrachna sp. 4/5 (PSW) Hydraenidae sp.			
472. 473.		Hydrobiidae sp.			
474.		Hydroglyphus grammopterus (=trilineatus)			
475.		Hydroglyphus leai			
476.		Hydrophilidae sp.			
477.	44656	Hydrophis major (Olive-headed seasnake, greater seasnake)			
478.	42410	Hydrophis ornatus (Ornate Reef Seasnake, Sea Snake)			
479.	43385	Hydrophis stokesii (Stoke's Seasnake, Sea Snake)			
480.		Hydropsychidae sp.			
481.		Hyphydrus sp.			
482.		Hypopterus macropterus			
483.		Ilyocypris 'spiculata' (ms name) (SAP)			
484.		llyocypris australiensis			
485. 486.		Ilyodromus sp. PB			
487.		Indolpium sp. Inimicus sinensis			
488.		Iridomyrmex chasei			
489.		Ischnura aurora aurora			
490.		Isidorella egraria			
491.		Isocypris williamsi (ex Ilyodromus sp. 413)			
492.		Isostictidae sp.			
493.		Istiblennius edentulus			
494.		Istiblennius lineatus			
495.		Istiblennius meleagris			
496.		Keratella procurva			
497.		Keratella sp. nov. (aff. australis grp) (CB)			
498.		Keratella tropica			
499.		Kiefferulus intertinctus			
500. 501		Laccophilus sharpi Lactoria cornuta			
501. 502.		Lactoria diaphana			
503.	24367	Lalage tricolor (White-winged Triller)			
503. 504.	27007	Lampona ampeinna			
505.		Lamponina scutata			
506.	25637	Larus novaehollandiae (Silver Gull)			
507.		Latonopsis brehmi			
508.		Latrodectus mactans			Υ
509.		Lecane bulla			
510.		Lecane cf. pertica			Υ
511.		Lecane cf. spenceri (PSW)			
512.		Lecane halsei			
513.		Lecane n. sp. psw031 (like signifera but tall)			Υ
514.		Leiognathus decorus			
515.		Leiognathus equulus			
516. 517.		Leiopotherapon unicolor Leptoceridae sp.			
518.	25124	Lerista baynesi			
3.3.	20124		Department	of Biodiversity.	WESTERN







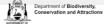
	Nam	e ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
5	519. 25	125	Lerista bipes			Allou
5	520. 30	928	Lerista clara			
5	521. 25	133	Lerista elegans			
5	522. 25	155	Lerista muelleri			
5	523. 25	158	Lerista onsloviana			
5	524. 25	176	Lerista uniduo (Spotted Broad-blazed Slider, skink)			
5	525.		Lethocerus distinctifemur			
5	526.		Lethrinus laticaudis			
5	527.		Lethrinus sp.			
5	528. 25	005	Lialis burtonis			
5	529.		Libellulidae sp.			
			Lichmera indistincta (Brown Honeyeater)			
		582	Lichmera indistincta subsp. indistincta (Brown Honeyeater)			
	532.		Limnesia sp. 4 (PSW)			
	533.		Limnocytheridae n.gen. sp 419 (CB)			
	534.		Liparetrus sp.			Y
			Litoria caerulea (Green Tree Frog)			
		392	Litoria rubella (Little Red Tree Frog)			
	537.		Liza melinoptera			
	538.		Liza sp. Liza subviridis			
	539.					
	540. 541.		Liza vaigiensis Lonhiocharon trisignatus			
	542.		Lophiocharon trisignatus Lophoictinia isura			
	542. 543.		Lopnoicunia isura Loxandrus micantior			
		1033	Lucasium stenodactylum			
	545.	,000	Lutjanid sp.			
	546.		Lutjanus argentimaculatus			
	547.		Lutjanus erythropterus			
	548.		Lutjanus fulviflamma			
	549.		Lutjanus malabaricus			
	550.		Lutjanus russellii			
5	551.		Lycosa meracula			Υ
5	552.		Macropharyngodon ornatus			
5	553. 25	489	Macropus robustus (Euro, Biggada)			
5	554. 24	136	Macropus rufus (Red Kangaroo, Marlu)			
5	555.		Macrothrix indistincta			
5	556. 24	326	Malacorhynchus membranaceus (Pink-eared Duck)			
5	557. 25	651	Malurus lamberti (Variegated Fairy-wren)			
5	558. 25	652	Malurus leucopterus (White-winged Fairy-wren)			
5	559. 25	654	Malurus splendens (Splendid Fairy-wren)			
5	560. 24	583	Manorina flavigula (Yellow-throated Miner)			
	561.		Masasteron tealei			
	562.		Mastogloia smithii Thwaites			
	563.		Megacephala greyana			
	564.		Megalaspis cordyla			
	565.		Megalops cyprinoides			
		995	Megalurus mathewsi (Rufous Songlark)			
	567.		Megaporus sp.			
	568.		Melanotaenia australis			
	569. 570. 24	726	Melonsittacus undulatus (Budgarigar)			
	570. 24 571.	1 30	Melopsittacus undulatus (Budgerigar) Mene maculata			
		184	Menetia greyii			
	<u>.</u> . 20					
3	573. 24	598	Merops ornatus (Rainbow Bee-eater)			
5		598	Merops ornatus (Rainbow Bee-eater)  Mesocyclops brooksi			
	573. 24 574. 575.	1598	Mesocyclops brooksi			
5	574.	1598	, , , , , , , , , , , , , , , , , , , ,			
5 5	574. 575.	1598	Mesocyclops brooksi Mesoveliidae sp.			
5 5 5	574. 575. 576.	1598	Mesocyclops brooksi Mesoveliidae sp. Microcarbo melanoleucos			
5 5 5	574. 575. 576. 577.	1598	Mesocyclops brooksi Mesoveliidae sp. Microcarbo melanoleucos Microcyclops varicans			
5 5 5 5	574. 575. 576. 577. 578. 579.		Mesocyclops brooksi Mesoveliidae sp. Microcarbo melanoleucos Microcyclops varicans Micronecta gracilis			
5 5 5 5 5	574. 575. 576. 577. 578. 579.	5542	Mesocyclops brooksi Mesoveliidae sp. Microcarbo melanoleucos Microcyclops varicans Micronecta gracilis Micronecta sp.			
5 5 5 5 5 5	574. 575. 576. 577. 578. 579.	5542	Mesocyclops brooksi Mesoveliidae sp. Microcarbo melanoleucos Microcyclops varicans Micronecta gracilis Micronecta sp. Milyus migrans (Black Kite)			
5 5 5 5 5 5 5	574. 575. 576. 577. 578. 579. 580. 25	5542 1298	Mesocyclops brooksi Mesoveliidae sp. Microcarbo melanoleucos Microcyclops varicans Micronecta gracilis Micronecta sp. Milvus migrans (Black Kite) Milvus migrans subsp. affinis (Black Kite)			
5 5 5 5 5 5 5 5	574. 575. 576. 577. 578. 579. 580. 25 581. 24 582.	5542 1298 5545	Mesocyclops brooksi Mesoveliidae sp. Microcarbo melanoleucos Microcyclops varicans Micronecta gracilis Micronecta sp. Milvus migrans (Black Kite) Milvus migrans subsp. affinis (Black Kite) Minasteron minusculum			
5 5 5 5 5 5 5 5 5	574. 575. 576. 577. 578. 579. 580. 25 581. 24 582.	5542 1298 5545	Mesocyclops brooksi Mesoveliidae sp. Microcarbo melanoleucos Microcyclops varicans Micronecta gracilis Micronecta sp. Milvus migrans (Black Kite) Milvus migrans subsp. affinis (Black Kite) Minasteron minusculum Mirafra javanica (Horsfield's Bushlark, Singing Bushlark)			Y
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	574. 575. 576. 577. 578. 579. 580. 25 581. 24 582. 583. 25 584. 24	5542 1298 5545	Mesocyclops brooksi Mesoveliidae sp. Microcarbo melanoleucos Microcyclops varicans Micronecta gracilis Micronecta sp. Milvus migrans (Black Kite) Milvus migrans subsp. affinis (Black Kite) Minasteron minusculum Mirafra javanica (Horsfield's Bushlark, Singing Bushlark) Mirafra javanica subsp. horsfieldii (Horsfield's Bushlark, Singing Bushlark) Mirafra javanica subsp. woodwardi Moina cf. australiensis (CB)			Y
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	574. 575. 576. 577. 578. 579. 580. 25 581. 24 582. 583. 25 584. 24	5542 1298 5545	Mesocyclops brooksi Mesoveliidae sp. Microcarbo melanoleucos Microcyclops varicans Micronecta gracilis Micronecta sp. Milvus migrans (Black Kite) Milvus migrans subsp. affinis (Black Kite) Minasteron minusculum Mirafra javanica (Horsfield's Bushlark, Singing Bushlark) Mirafra javanica subsp. horsfieldii (Horsfield's Bushlark, Singing Bushlark) Mirafra javanica subsp. woodwardi			Y







Mills		Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
591	589.		Monocentris japonicus			
581.   25114 Abstraction Authorised acting infrastruction Freedom Continued						
\$50.   24.193   Amongsteres know   Calles Prinches   Freezes know						
944.   Aug   Carebatus			·			
1966.   Margareseas cinternas   Y		24183				
24222   Mac manusuria (Please Makase)   Y						
1887.   Mystocycle occidentalism   1898.   Mystocycle occidentalism   1898.   Mystocycle occidentalism   1898.   Mystocycle occidentalism   1809.   Missocke ocyclerate Lange Service   1801.   Missocke ocyclerate Lange   1807.   Missocke ocyclerate Lange   1807.   Missocke ocyclerate Lange   1807.   Missocke ocyclerate Lange   1807.   Missocke ocyclerate   1807.		24223		Υ		
500.   November Organisation Conference Name   501.   November Organisation Selection Name   502.   November Organisation Selection Name   503.   November Organisation Selection Name   504.   November Organisation Selection Name   505.   November Organisation Selection Name   506.   November Organisation Selection Name   507.   November Organisation Selection Name   508.   November Organisation Selection Name   509.   November Organisation Name   509.   November Organis						
100.   Nanocia moticilations Nat.	598.					
601. Marsaclas regions Kilaz.  Mornalosco grap.  603. Marmaclosco grap.  604. Mornalosco grap.  605. Mornalosco grap.  606. Mornalosco grap.  607. Mornalosco grap.  607. Mornalosco grap.  608. Mornalosco grap.  609. Mornalosco grap.  609. Mornalosco grap.  609. Mornalosco grap.  600. Mornalosco grap.  601. 25427 Morbacterioschia filolosco (Samp) Timiliag.  601. 25428 Morbatterioschia filolosco (Samp) Timiliag.  602. Mornalosco grap.  603. Mornalosco grap.  604. Mornalosco grap.  605. Mornalosco grap.  606. Mornalosco grap.  607. Mornalosco grap.  607. Mornalosco grap.  608. Mornalosco grap.  609. Mornalosco grap.  609. Mornalosco grap.  609. Mornalosco grap.  609. Mornalosco grap.  601. Zabida Mornalosco grap.  601. Zabida Mornalosco grap.  602. Mornalosco grap.  603. Zabida Mornalosco grap.  604. Mornalosco grap.  605. Mornalosco grap.  606. Mornalosco grap.  607. Mornalosco grap.  608. Mornalosco grap.  609. Mornalosco grap.	599.		Navicula cryptonella Lange-Bertalot			
502.   Memataksa p.	600.		Navicula molestiformis Hust.			
503.   Normalecia so.						
604. Mematoda ga. 16 (PSS)  606. Mematoda ga. 16 (PSS)  607. Mematoda ga. 16 (PSS)  608. Mematoda ga. 17 (PSS)  608. Mematoda ga. 17 (PSS)  609. Mematoda ga. 17 (PSS)  60						
805.   Momentods ag. 17 (PSS)   Y			·			
606.   Nematacia sp. 16 (PSS)   Y			-			
907. Nemasked sp. 7 (PSS)						<b>V</b>
608.   Mematicate sp. 8 (PSS)   Y						
600.   Normandos p. Pel (PSW)						
611. 25424 Neobatrontus Blance (Tawny Tilling Prog) 613. Neopomacentrus Riamentious 614. Neopomacentrus Riamentious 615. Neopomacentrus Riamentious 616. 25497 Nephrurus Ivris 617. 22498 Nephrurus Ivris 618. 24099 Nephrurus Ivris autoris 619. Neopomacentrus Ivris autoris 619. Neutran Riamentious 619. Neutran Riamentious 619. Neutran Riamentious 620. Nichozza ap. P2 (PSV) 621. 224096 Ningual terris autoris (PSV) 622. 48016 Ninox bootook (Rodook Cult) 623. 48016 Ninox bootook (Rodook Cult) 624. Nitzechia filitornia (N. Sm.) Van Hourek 625. Nitzechia palea (Riaz J. W. Sm. 626. Nitzechia palea (Riaz J. W. Sm. 627. Nitzechia signer (Kidz J. W. Sm. 628. Nitzechia internation (PSI) J. J. Sm. 629. Nitzechia internation (PSI) J. J. Sm. 629. Nitzechia internation (PSI) J. J. Sm. 620. Nitzechia palea (Riaz J. W. Sm. 631. Nitzechia internation (PSI) J. J. Sm. 632. Nitzechia internation (PSI) J. J. Sm. 633. 24224 Nitzechia internation (PSI) J. J. Sm. 634. Nonopysa granturis 635. 24194 Nitzechia internation (PSI) J. Sm. 636. 24194 Nitzechia internation (PSI) J. Sm. 637. 24007 Opinhapa granturis 638. 24194 Nonopysa granturis 639. Nonopysa granturis 639. Opinhapa granturis 640. 24007 Opinhapa kolinicia (Crosted Pipoori) 641. Opinhapa kolinicia (Crosted Pipoori) 642. Opinhapa kolinicia (Crosted Pipoori) 643. 24194 Opinhapa kolinicia (Crosted Pipoori) 644. Opinhapa granturis (Crosted Pipoori) 645. 24194 Opinhapa kolinicia (Crosted Pipoori) 646. 24007 Opinhapa kolinicia (Crosted Pipoori) 647. Opinhapa kolinicia (Crosted Pipoori) 648. Opinhapa granturis (Crosted Pipoori) 649. Opinhapa kolinicia (Crosted Pipoori) 650. 24194 Pranticia (Crosted Pipoori) 651. Sprincia (Crosted Pipoori) 652. Pranticia (Crosted Pipoori) 653. Pranticia (Crosted Pipoori) 654. Pranticia (Crosted Pipoori) 655. Pranticia (Crosted Pipoori) 656. Pranticia (Crosted Pipoori) 657. Pranticia (Crosted Pipoori) 658. Pranticia (Crosted Pipoori) 659. Pranticia (Crosted Pipoori) 650. Pranticia (Crosted Pipoori) 651. Pranticia (Crosted Pipoori) 652. Pranticia (Crosted Pi						·
612   26889 Noochmin unfloated (Star Funch)	610.	25422	Neobatrachus aquilonius (Northern Burrowing Frog)			
613.   Neoportica articles   Neoportica   Neoportica articles   Neoportica   Neo	611.	25424	Neobatrachus fulvus (Tawny Trilling Frog)			
614. Neotrini actuals 615. Nephila edula 616. 25497 Nephruns levis 617. 24666 Nephruns levis subap. occidentalis 618. 24696 Nephruns levis subap. pubmensis 619. Netuma dislassima 620. Niklauzis sp. P2 (PSM) 621. 24696 Ningaul imaatayi (Pibara Ningaul) 622. 42696 Ningaul imaatayi (Pibara Ningaul) 623. 25747 Ninox connivara (Barking Out) 624. 43016 Ninox boobooki (Baobooko Out) 625. Nitzachia palea (Barking Out) 625. Nitzachia palea (Barking Out) 626. Nitzachia spiesa (Barking Out) 627. Nitzachia spiesa (Rifiz) V. Sm. 628. Nitzachia minintali (Rifiz) V. Sm. 628. Nitzachia minintali (Doesn Spadeloot) 631. No Northerianis 630. 25400 Notodom nicholsi (Doesn Spadeloot) 631. Notodarphyselia sp. 632. Notographus guittatus 633. 24240 Notographus guittatus 634. 25564 Nyticorae cakerkoinus (Platicus Night Henri) 635. 24194 Nyticorae cakerkoinus (Platicus Night Henri) 636. 24242 Notographus guittatus 637. 2440 Oriphinas bolandicus (Codailei) 637. 2440 Oriphinas Spolnoses (Costael Pipoon) 638. Oecelis sp. Pilana i (Spinic Codailei) 641. Ophichthus caphalaczona 642. Odosopatus guittalis (Coesed Baltini) 643. 24816 Oreolos guittalis (Coesed Baltini) 644. Ophidathus caphalaczona 645. Oribatria actualistica (Platicus Night Lepisa) 646. 24620 Spicytopatus duriniminais 647. 2480 Ophichthus caphalaczona 648. Ozestharia podenidi 649. Ozestharia podenidi 651. 24821 Partycephala mindester (Bultini) 652. Parameticapopon vespa 653. Parameticapopon vespa 654. Parameticapopon vespa 655. Parameticus polynema 655. Parameticus polynema 656. Parameticus polynema 657. Parameticus polynema 658. Parameticus polynema 659. Parameticus polynema 659. Parameticus polynema 650. Parameticus polynema 650. Parameticus polynema 651. Parameticus polynema 652. Parameticus polynema 653. Parameticus polynema 654. Parameticus polynema 655. Parameticus pol		25685	Neochmia ruficauda (Star Finch)			
615. Mephale edule 616. 25407 Mephanus levis 617. 24466 Nejhrunus levis suidap, pillaterneis 618. 24508 Nejhrunus levis suidap, pillaterneis 619. Netura tribatissinia y 620. Nilobezzia pp. P2 (PSW) 621. 24069 Mingaturia levis suidap, pillaterneis 622. 44016 Minor bootooli (Robotook Owl) 623. 25747 Minox conniversi (Barking Owl) 624. Minox bootooli (Robotook Owl) 625. Niloschia filiotinnia (W. Sm.) Van Heurok 625. Niloschia filiotinnia (W. Sm.) Van Heurok 626. Niloschia filiotinnia (W. Sm.) Van Heurok 627. Niloschia sigma (Ritz.) W. Sm. 627. Niloschia sigma (Ritz.) W. Sm. 627. Niloschia sigma (Ritz.) W. Sm. 628. Niloschia sigma (Ritz.) W. Sm. 629. Niloschia sigma (Ritz.) W. Sm. 630. Osobathynellä sp. 640. Niloschia sigma (Ritz.) W. Sm. 641. Notopaputus gulatusia 642. Notopaputus gulatusia 643. 2442 Allotonya aiaksi (Spinifex Hopping-mouse) 644. 25644 Nychicorax caledonicus (Rubus Night Honor) 645. 2444 Osobathynellä sp. Gentral (Lessen Lung-eerde Bati) 646. 2444 Ophales pilosiksia gentral (Lessen Lung-eerde Bati) 647. Onoderanchus purctatus 648. Calla Virginia spiniotia (Cockatei) 649. Ophalestinus aphalesticus (Cockatei) 640. Ophalestinus aphalesticus 641. Ophalestinus aphalesticus 642. Ophalestinus purctatus 643. 2440 Ophalestinus aphalesticus 644. Ophalestinus aphalestinus 645. Ophalestinus aphalestinus 646. Ophalestinus aphalestinus 647. Ostatosoda guturniis (Created Balbirit) 648. Ozastavata pudatettis 649. Ophalestinus aphalestinus 640. Ozastavata pudatettis 641. Ophalestinus aphalestinus 642. Partyrephale minimiarus aubsp. melanura (Mangrova Golden Whister) 643. 2460 Partyrephales innimiarus aubsp. melanura (Mangrova Golden Whister) 654. Parameteium sp. Parameteium sp. 655. Parameteium sp. 666. Parameteium sp. 667. Parameteium sp. 668. P	613.		•			
616 25497 Mephruns levis subsp. cocidentalis 617 24868 Mephruns levis subsp. cocidentalis 618 24868 Mephruns levis subsp. pillearense 619 Natura thaissaina y P. (P. PSW) 621 24868 Mephruns levis subsp. pillearense 620 Nichozara p. P. (P. PSW) 621 44816 Nimocochook (Bookook Owl) 623 25747 Minox conniverse (Barking Owl) 624 Nizeschia (Borking (W. Sm.) Van Heurok 625 Nizeschia (Borking (W. Sm.) Van Heurok 626 Nizeschia (Borking (W. Sm.) Van Heurok 627 Nizeschia sigma (P. Kilz.) Grun. 628 Nizeschia sigma (P. Kilz.) Grun. 629 Nizeschia sigma (P. Kilz.) U. Sm. 621 Nizeschia sigma (P. Kilz.) W. Sm. 621 Nizeschia sigma (P. Kilz.) W. Sm. 622 Nizeschia sigma (P. Kilz.) W. Sm. 623 Notodom nicholsi (Desent Spadefoot) 631 Notodom nicholsi (Desent Spadefoot) 632 Notographus guintus 633 24224 Notographus guintus 633 24224 Notographus guintus 634 22240 Notographus guintus 635 24240 Nyelcoora caledorinus (Rulcus Night Horon) 636 24140 Nyelpolinus geoffrey (Lesset Long-aered Bat) 637 2440 Oyahagas laphicae (Created Pigeori) 638 Oocetes sp. Pileara is (Fisset Pigeori) 639 Oocetes sp. Pileara is (Fisset Pigeori) 640 Orocharobus puriotius 641 Ophichthus cephaplacona 642 Ophicographus deniveriess 643 2468 Orochagarus (Greated Balbird) 644 Ophichthus cephaplacona 645 Orochagas (Created Balbird) 646 Orocharobus puriotius 647 Orocharobus puriotius 648 Ozestharia packard 649 Orochagas curiotius (Pakabil) 650 2420 Perboyaphala minderist (Grous Whistler) 651 2468 Paramiropopin vessus spenicer 652 Paramiropopine vessus spenicer 653 Paramiropopine vessus spenicer 654 Paramiropopine vessus prenicer 655 Paramiropopine vessus prenicer 656 Paramiropopine vessus prenicer 657 Paramiropopine vessus prenicer 658 Paramiropopine vessus prenicer 659 Paramiropopine vessus prenicer 650 Paramiropopine vessus prenicer 651 Paramiropopine vessus prenicer 652 Paramiropopine vessus prenicer 653 Paramiropopine vessus prenicer 654 Paramiropopine vessus prenicer 655 Paramiropopine vessus prenicer 656 Paramiropopine vessus prenicer 657 Paramiropopine vessus preni						
617. 2.4968 Nephrurus levis subap, pilbarensis 618. 24969 Nephrurus levis subap, pilbarensis 7 619. Nilobazzia sp. P2 (PSW) 621. 24905 Nirgust imeality (Filbara Nirgusi) 622. 44916 Nirox bodook (Boobook Ow) 623. 2574 Nilox bodook (Boobook Ow) 624. 48916 Nirox bodook (Boobook Ow) 625. 626. Nileschia filformis (W. Sm.) Yan Heurok 626. Nileschia filformis (W. Sm.) Yan Heurok 627. Nileschia sigma (Kitz.) W. Sm. 627. Nileschia sigma (Kitz.) W. Sm. 628. Nileschia sigma (Kitz.) W. Sm. 629. No inversibrates 630. 25430 Notadan inclosis (Boast Spadeloot) 631. Notobathyretis sp. 632. 24930 Notadan inclosis (Boast Spadeloot) 633. 24224 Notomys alexis (Spinilox Hopping-mouse) 634. 25564 Nyrictorax calestocinus (Rulos Right Herori) 635. 24747 Vyrmphicus hollandius (Cociation) 636. 24742 Vyrmphicus politory (Ecociation) 637. 24407 Oogybapa kiphicas (Cociation) 638. Oenelis sp. 640. Omobranchus puntatus 641. Ophichtus cephialozore 642. Ophistografius darviniensis 643. 24618 Norochapa sputatus 644. Orhateka grup 6 (PSS) 645. Orheturu calesdonicum 646. Orhateka grup 5 (PSS) 657. Paramocium sp. 658. Paramotikos p. 659. Paramocium sp. 661. Paramocium sp. 665. Paramocium sp. 677. Paramocium sp. 678. Paramocium sp. 679. Paramocium sp. 679. Paramocium sp. 670. Paramocium sp. 671. Paramocium sp. 672. Paramocium sp. 673. Paramocium sp. 674. Paramocium sp. 675. Paramocium sp. 675. Paramocium sp. 676. Paramicium sp. 677. Paramocium sp. 677. Paramocium sp. 677. Paramocium sp.		05407				
618. 24989 Nephrurus levis subsp. pilborensis  71. Neturna trabasima (S. Neturna S. Netu						
19.   Neturna habassina   Y						
620. Nilobazzia şp. 12 (PSW) 621. 24095 Ningaui timealiayi (Pitbara Ningaui) 622. 48016 Ninoco boobook (Boobook Owl) 623. 25747 Ninoc conniversi (Barking Owl) 624. Nitzschia fillornia (W. Sm.) Van Hourck 625. Nitzschia fillornia (W. Sm.) Van Hourck 626. Nitzschia rinastulum (Kütz.) Grun. 627. Nitzschia sigma (Kütz.) W. Sm. 628. Nitzschia unborata (Eln.) Lango-Bertalot 629. Nitzschia unborata (Eln.) Lango-Bertalot 630. 26430 Notadan nicholia (Desart Spadeloot) 631. Notocharlynelia sp. 632. Notograpus guttatus 633. 24244 Notomya sievis (Spinifex Hopping-mouse) 634. 25564 Nyotoconx caladoricus (Rulous Night Heron) 635. 24194 Nyotophilus geolifoy (Lesser Long-aard Bat) 636. 24742 Nymphilus polinojes (Crested Pigeon) 637. 24407 Osythapa kaphories (Crested Pigeon) 638. Oecetis sp. Pilbara 5 (PSW) 640. Omobranchus purctatus 641. Ophichius cophiolocona 642. Opistopratus advaniriensia 643. 24618 Orocona guturulis (Crested Belbird) 644. Orheitida group 5 (PSS) 645. Ortherum caledoricum 646. Ortherum caledoricum 647. Ostracoofa (undent.) 658. Paramelorina pa. 659. Paramelom sp. 650. Paramelom sp. 651. Paramenom sp. 655. Paramenom sp. 656. Paramenom sp.		24303				٧
621.         24055. Ningau itmosloy (Pibran Ningaul)           622.         48016. Ninox boobook (Boobook OW)           624.         Nitzschia Wildming (W. Sm.) Van Heurck           625.         Nitzschia Wildming (W. Sm.)           626.         Nitzschia palea (Kütz.) W. Sm.           627.         Nitzschia umbonata (Ehr.) Lange-Bertalot           629.         No inventebratas           630.         25430. Notacha nicholisi (Deent Spadefool)           631.         Notodarilyneilla sp.           632.         Notographus gutatus           633.         24242. Notographus gutatus (Spinick Hopping-mouse)           634.         2564. Nyctocrax caledorinus (Rufous Night Henn)           635.         24149. Nyctophius gentral (Spinick Hopping-mouse)           634.         2456. Nyctocrax caledorinus (Rufous Night Henn)           635.         24149. Nymphicus holandricus (Cockatell)           637.         24107. Organiza (Grandricus (Cockatell)           638.         Ocestes sp.           639.         Ocestes sp.           630.         Ocestes sp.           641.         Ophichtus capitalosa (Grandricus (Cockatell)           642.         Opisiograntus darwiniensis           643.         26180. Orgodo (Grandricus)           644. <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th></t<>						
623.         25747         Nitrox connivers (Barking Owl)           624.         Nitzschia filiformis (W. Sm.) Van Heurok           625.         Nitzschia plase (Kürz.) W. Sm.           626.         Nitzschia algare (Kürz.) W. Sm.           627.         Nitzschia algare (Kürz.) W. Sm.           628.         Nitzschia umbonata (Ehr.) Lange-Bertalot           629.         No invertebrates           630.         25430 Notden nicholis (Desert Spadelon)           631.         Notopaptus guitatus           632.         Notomys alexis (Spinifex Hopping-mouse)           634.         25654 Nyctocrax caledonicus (Eufous Night Heron)           635.         24194 Nyctiphius gofforios (Eufous Night Heron)           636.         24194.           637.         24400 Orophius gofforios (Lesser Long-eard Bal)           638.         24194.           639.         Oecetis sp. Biolandicus (Cockatel)           637.         24407 Orophius gofforios (Crested Pigon)           638.         Oecetis sp. Bibara 6 (PSW)           640.         Ombornachus punctatus           641.         Ophichthus caphalazona           642.         Opistogratus darwinensis           643.         24810 Orobiog guituralis (Crested Balbird)           644.         Or	621.	24095				
624. Nitzschia filiformis (W. Sm.) Van Haurock 625. Nitzschia palae (Kotz.) W. Sm. 627. Nitzschia janae (Kotz.) W. Sm. 628. Nitzschia janae (Kotz.) W. Sm. 629. Nitzschia igma (Kotz.) W. Sm. 629. Nitzschia igma (Kotz.) W. Sm. 630. 2550 Notaden nicholisi (Desert Spadefoot) 631. Notobuthyrelia sp. 632. Notographus guttatus 633. 24224 Notonya alexis (Spinilex Hopping-mouse) 634. 25564 Nyctopalius geoffroy (Lesser Long-eared Bat) 635. 24194 Nyctophilus geoffroy (Lesser Long-eared Bat) 636. 24194 Nyctophilus geoffroy (Lesser Long-eared Bat) 637. 24407 Ocyphapa kephoes (Crested Pigeon) 638. Oecetis sp. Pilibara 5 (PSW) 640. Omobranchus punctatus 641. Ophichthus cephalazona 642. Opistognatus darwiniensis 643. 2418 Oreicia gutturalis (Crested Belibird) 644. Oribaida group 5 (PSS) 645. Orthetum caledonicum 646. 2408 Oryctoligus cuniculus (Rabbit) Y 647. Ostacada (unident) 648. Ozestheria packardi 649. 24620 Pachycephala inainoides (White-breasted Whistler) 650. 24621 Pachycephala inainoides (White-breasted Whistler) 651. 25680 Pachycephala rufiventris (Ridous Whistler) 652. Parate la Revoscora 653. Paracentropogon vespa 654. Paracentropogon vespa 655. Parameliidae sp.	622.	48016	Ninox boobook (Boobook Owl)			
625. Nitzschia frustulum (Kütz.) Grun. 626. Nitzschia pialea (Kütz.) W. Sm. 627. Nitzschia sigma (Kütz.) W. Sm. 628. Nitzschia unbronata (Ehr.) Lange-Bertalot 629. No invertabrates 630. 25430 Notaden nicholisi (Desert Spade/cort) 631. Notobathyrnella sp. 632. Notograptus gutatus 633. 42424 Notomys alexis (Spinifex Hopping-mouse) 634. 25564 Nycticorax caledonicus (Rulous Night Heron) 635. 24191 Nyctiphilus geoffiny (Lesser Long-eared Bat) 636. 24742 Nymphicus hollandicus (Cockatie) 637. 24407 Ocyphaps (Posphotis (Crested Pigeon) 638. Occelis sp. 639. Oecelis sp. Pilbara 5 (PSW) 640. Omobranchus punciatus 641. Ophichitus caphaliscona 642. Opistograntus darwiniensis 643. 24618 Oreoica gutturalis (Crested Bellbird) 644. Ohododa group 6 (PSS) 645. Orthertum caledonicum 646. Onbatido group 6 (PSS) 647. Ostracoda (unident.) 648. Ozestheria packardi 649. 2462 Pachycephala lanioides (White-breasted Whistler) 650. 2462 Pachycephala lanioides (White-breasted Whistler) 651. 25680 Pachycephala lanioides (White-breasted Whistler) 652. Paramelium sp. 653. Paramelium sp. 654. Paramelium sp. 655. Paramenium sp. 656. Paraminiche sp.	623.	25747	Ninox connivens (Barking Owl)			
626. Nitzschia jalea (Kütz.) W. Sm. 627. Nitzschia sigma (Kütz.) W. Sm. 628. Nitzschia urbonata (Ehr.) Lange-Bertalot 629. No invertebrates 630. 265430 Notaden nicholisi (Desert Spadefoot) 631. Notobathynelia sp. 632. Notograptus guttatus 633. 42420 Notothynya lakis (Spinifex Hopping-mouse) 634. 25564 Nycticorax caledonicus (Rufous Night Heron) 635. 24194 Nyctophilus geoffroyi (Lesset Long-eared Bat) 636. 24742 Nymphicus hollandfusic (Cockadel) 637. 24407 Ocyphaps laphotes (Crested Pigeon) 638. Oecetis sp. 639. Oecetis sp. Pilbara 5 (PSW) 640. Omobranchus punctatus 641. Ophichthus caphatiozona 642. Opistognatius darwiniensis 643. 24618 Oreoica gutturalis (Crested Belibird) 644. Orbidid group 6 (PSS) 645. Orthetrum caledonicum 646. 2405 Orycholgus curriculus (Rabbir) 647. Ostracoda (unident.) 648. Ozestheria packardi 649. 24620 Pachycephala larioides (White-breasted Whistler) 650. 24621 Pachycephala larioides (White-breasted Whistler) 651. 25680 Pachycephala naliventris (Rufous Whistler) 652. Paramelium sp. 653. Paramelium sp. 656. Parammoupher n sp (PSW) 657. Paramelium sp.	624.		Nitzschia filiformis (W. Sm.) Van Heurck			
627. Nitzschia sigma (Kitz.) W. Sm. 628. Nitzschia umbonata (Ehr.) Lange-Bertalot 629. No invertebrates 630. 25430 Notaden nichollsi (Desert Spadefoot) 631. Notobathynelia sp. 632. Notograptus guttatus 633. 24224 Notomys alexis (Spinitex Hopping-mouse) 634. 25564 Nycticorax caledonicus (Rufous Night Heron) 635. 24194 Nyctophilus geoffroy (Lesser Long-eared Bat) 636. 24742 Nymphicus hollandicus (Cockariel) 637. 24407 Ocyphaps lophotes (Crested Pigeon) 638. Oceatis sp. 639. Oceatis sp. Pilbara 5 (PSW) 640. Omobranchus punciatus 641. Ophichthus cephelozona 642. Opistognathus darwiniensis 643. 24810 Toriosa guttratis (Crested Beibitrd) 644. Oribatida group 5 (PSS) 645. Orthetrum caledonicum 646. 2405 Oryclaegus cuncius (Rabbit) 647. Ostracoda (unident.) 648. Ozestheria packardi 659. 24620 Pachycephaba lanioides (White-breasted Whistler) 650. 24621 Pachycephaba melanura subsp. melanura (Mangrove Golden Whistler) 651. 25680 Pachycephaba melanura subsp. melanura (Mangrove Golden Whistler) 652. Partaled filevesoris (Rufous Whistler) 653. Paraeentropogon vespa 654. Parachaeturichthys polynema 655. Paraemeium sp. 657. Parameeium sp.						
628. Nitzschia umbonata (Ehr.) Lange-Bertalot 629. No invertebrates 630. 25430 Notodean nicholis (Desert Spadefoot) 631. Notobathynella sp. 632. Notograptus guttatus 633. 24224 Notomys alexis (Spinitex Hopping-mouse) 634. 25564 Nycticorax caledonicus (Rufous Night Heron) 635. 24194 Nyctophilus geoffroyi (Lesser Long-eared Bat) 636. 24719 Nymphicus hollandicus (Cockariel) 637. 24407 Ocyphaps lophotes (Crested Pigeon) 638. Oecetis sp. 639. Oecetis sp. 640. Omobranchus punctatus 641. Ophichthus cephalozona 641. Ophichtus cephalozona 642. Opistograftus darwiniensis 643. 24618 Oreoica gutturalis (Crested Bellbird) 644. Oribatida group 5 (PSS) 645. Orrhetum caledonicum 646. 24085 Oryctolagus curiculus (Rabbir) Y 647. Ostracoda (unident.) 648. Ozestheria packardi 649. 24620 Pachycephala Inalioides (White-breasted Whistler) 650. 24621 Pachycephala melanura subsp. melanura (Mangrove Golden Whistler) 651. 25680 Pachycephala melanura subsp. melanura (Mangrove Golden Whistler) 652. Pantala flavescoris 653. Paracentropogon vespa 654. Parachesturichthys polynema 655. Paramecium sp. 656. Paralimocyther en sp (PSW) 657. Paramecium sp.						
629. No invertebrates 630. 25430 Notaden nicholisi (Desert Spadefoot) 631. Notobathyniella sp. 632. Notograptus guttatus 633. 24224 Notomys alexis (Spinifex Hopping-mouse) 634. 25564 Nycticorax caledonicus (Rufuos Night Heron) 635. 24194 Nyctophius geoffroyi (Lesser Long-eared Bat) 636. 24742 Nyrnphicus hollandicus (Cockatiel) 637. 24407 Ozyhaps lophotes (Crested Pigeon) 638. Oecetis sp. 639. Oecetis sp. 639. Oecetis sp. 640. Ombranchus punctatus 641. Ophichthus cephalozona 641. Ophichtus cephalozona 642. Opistognathus darwiniensis 643. 2418 Poreica gutturisis (Crested Belibird) 644. Oribardia group 5 (PSS) 645. Ortherum caledonicum 646. 24085 Oyctolegus curiculus (Rabbit) Y 647. Ostracoda (unident.) 648. Ozestheria packardi 649. 2420 Pachycephala lanioides (White-breasted Whistler) 650. 2421 Pachycephala univentris (Rufous Whistler) 651. 2580 Pachycephala univentris (Rufous Whistler) 652. Pantala flavescens 653. Paracentropogon vespa 655. Paracimus spanceri 656. Paralimnocythere n sp (PSW) 657. Parameolim sp.						
630. 25430 Notaden nichollsi (Desert Spadefoot) 631. Notobathymella sp. 632. Notograptus guttatus 633. 24224 Notomys alexis (Spinifex Hopping-mouse) 634. 25564 Nyctophilus geoffroyi (Lesser Long-eared Bat) 635. 24194 Nyctophilus geoffroyi (Lesser Long-eared Bat) 636. 24742 Nymphicus hollandicus (Cockatel) 637. 24407 Ocyphaps lophotes (Crested Pigeon) 638. Oecetis sp. Pilbara 5 (PSW) 640. Omobranchus punciatus 641. Ophichthus cephalozona 642. Opistognathus darwiniensis 643. 24618 Oreoica gutturalis (Crested Bellbird) 644. Oribatida group 5 (PSS) 645. Orthetrum caledoricum 646. 24085 Oryctolagus cuniculus (Rabbit) 647. Ostracoda (unident.) 648. Ozestheria packardi 649. 24620 Pachycephala relianus subsp. melanura (Mangrove Golden Whistler) 650. 24621 Pachycephala melanura subsp. melanura (Mangrove Golden Whistler) 651. 25660 Pantycephala Indianus puncentalis 653. Paracentropogon vespa 655. Paracymus spenceri 656. Paralimnocythere n sp (PSW) 657. Parameolium sp.						
631. Notoberthynella sp. 632. Notograptus guttatus 633. 24224 Notomys alexis (Spinifex Hopping-mouse) 634. 25664 Nyctocrax caledonicus (Rufous Night Heron) 635. 24194 Nyctophilus geoffroyi (Lesser Long-eared Bat) 636. 24742 Nymphicus hollandicus (Coekteil) 637. 24407 Ocyphaps lophotes (Crested Pigeon) 638. Oecetis sp. 639. Oecetis sp. 639. Oecetis sp. Pilbara 5 (PSW) 640. Omobranchus punctatus 641. Ophichthus cephalozona 642. Opistognathus darwiniensis 643. 24618 Oreoica gutturalis (Crested Bellbird) 644. Orbatida group 5 (PSS) 645. Orthetrum caledonicum 646. 24085 Orycologus curiculus (Rabbit) 647. Ozstracoda (unident.) 648. Ozestheria packardi 649. 24620 Pachycophala lanioides (White-breasted Whistler) 650. 24621 Pachycophala milwentris (Rufous Whistler) 651. 25680 Pachycophala Infiventris (Rufous Whistler) 652. Pantala flavescens 653. Paracentropogon vespa 655. Paracymus spenceri 656. Paralmocythere n sp (PSW) 657. Parameelitida sp.		25430				
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636.       2474 Nymphicus hollandicus (Cockatiel)         637.       24407 Ocyphaps lophotes (Crested Pigeon)         638.       Oecetis sp.         640.       Omobranchus punctatus         641.       Ophichthus cephalozona         642.       Opistognathus darwiniensis         643.       24618 Oreoica gutturalis (Crested Bellbird)         644.       Oribatida group 5 (PSS)         645.       Ortherum caledonicum         646.       24085 Oryctolagus cuniculus (Rabbit)       Y         647.       Ostracoda (unident.)         648.       Ozestheria packardi         649.       24620 Pachycephala lanioides (White-breasted Whistler)         650.       24621 Pachycephala rufiventris (Rufous Whistler)         651.       25680 Pachycephala rufiventris (Rufous Whistler)         652.       Pantala flavescens         653.       Paracentropogon vespa         654.       Paracymus spenceri         655.       Paralimnocythere n sp (PSW)         657.       Paramelitidae sp.	634.	25564	Nycticorax caledonicus (Rufous Night Heron)			
637.         24407         Ocyphaps lophotes (Crested Pigeon)           638.         Oecetis sp.           639.         Oecetis sp. Pilbara 5 (PSW)           640.         Omboranchus punctatus           641.         Ophichthus cephalozona           642.         Opistognathus darwiniensis           643.         24618         Oreoica gutturalis (Crested Bellbird)           644.         Oribatida group 5 (PSS)           645.         Orthertum caledonicum           646.         24085         Oryctolagus curiculus (Rabbit)         Y           647.         Ostracoda (unident.)         Y           648.         Ozestheria packardi         Y           649.         24620         Pachycephala lanicides (White-breasted Whistler)           650.         24621         Pachycephala melanura subsp. melanura (Mangrove Golden Whistler)           651.         25680         Pachycephala Indiventris (Rufous Whistler)           652.         Pantala Ilavescens           653.         Parachaeturichtrys polynema           655.         Parachaeturichtrys polynema           656.         Parallimnocythere n sp (PSW)           657.         Paramellitidae sp.	635.	24194	Nyctophilus geoffroyi (Lesser Long-eared Bat)			
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643. 24618 Oreoica gutturalis (Crested Bellibird) 644. Oribatida group 5 (PSS) 645. Orthetrum caledonicum 646. 24085 Oryctolagus cuniculus (Rabbit) Y 647. Ostracoda (unident.) 648. Ozestheria packardi 649. 24620 Pachycephala lanioides (White-breasted Whistler) 650. 24621 Pachycephala melanura subsp. melanura (Mangrove Golden Whistler) 651. 25680 Pachycephala rufiventris (Rufous Whistler) 652. Pantala flavescens 653. Paracentropogon vespa 654. Parachaeturichthys polynema 655. Paracymus spenceri 656. Paralimnocythere n sp (PSW) 657. Paramecium sp.						
645. Orthetrum caledonicum 646. 24085 Oryctolagus cuniculus (Rabbit) Y 647. Ostracoda (unident.) 648. Ozestheria packardi 649. 24620 Pachycephala lanioides (White-breasted Whistler) 650. 24621 Pachycephala melanura subsp. melanura (Mangrove Golden Whistler) 651. 25680 Pachycephala rufiventris (Rufous Whistler) 652. Pantala flavescens 653. Paracentropogon vespa 654. Parachaeturichthys polynema 655. Paracymus spenceri 656. Paralimnocythere n sp (PSW) 657. Paramecium sp. 658. Paramelitidae sp.		24618	• •			
646.       24085       Oryctolagus cuniculus (Rabbit)       Y         647.       Ostracoda (unident.)       (48.       Ozestheria packardi         649.       24620       Pachycephala lanioides (White-breasted Whistler)       (48.       <	644.		Oribatida group 5 (PSS)			
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650. 24621 Pachycephala melanura subsp. melanura (Mangrove Golden Whistler) 651. 25680 Pachycephala rufiventris (Rufous Whistler) 652. Pantala flavescens 653. Paracentropogon vespa 654. Parachaeturichthys polynema 655. Paracymus spenceri 656. Paralimnocythere n sp (PSW) 657. Paramecium sp. 658. Paramelitidae sp.		24626				
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652. Pantala flavescens 653. Paracentropogon vespa 654. Parachaeturichthys polynema 655. Paracymus spenceri 656. Paralimnocythere n sp (PSW) 657. Paramecium sp. 658. Paramelitidae sp.						
653. Paracentropogon vespa 654. Parachaeturichthys polynema 655. Paracymus spenceri 656. Paralimnocythere n sp (PSW) 657. Paramecium sp. 658. Paramelitidae sp.		20000				
654. Parachaeturichthys polynema 655. Paracymus spenceri 656. Paralimnocythere n sp (PSW) 657. Paramecium sp. 658. Paramelitidae sp.						
656. Paralimnocythere n sp (PSW) 657. Paramecium sp. 658. Paramelitidae sp.						
657. Paramecium sp. 658. Paramelitidae sp.	655.		Paracymus spenceri			
658. Paramelitidae sp.						
·						
	658.		Paramelitidae sp.	(da)	(District)	







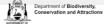
	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
659.		Paraplagusia bilineata			
660.		Paraplotosus albilabris			
661.		Parascorpaena picta			
662.		Parastenocarididae sp.			
663.		Parastenocaris jane			
664.		Parastromateus niger			
665.	24627	Pardalotus rubricatus (Red-browed Pardalote)			
666.	0.40.40	Parupeneus indicus	V		
667. 668.	24042	Passer montanus (Eurasian Tree Sparrow) Pediana tenuis	Υ		
669.		Pelates octolineatus			
670.	24648	Pelecanus conspicillatus (Australian Pelican)			
671.		Pellona ditchela			
672.		Pentapodus sp.			
673.		Pentapodus vitta			
674.		Periophthalmus argentilineatus			
675.		Peristrominous dolosus			
676.		Pervagor janthinosoma			
677.		Pescecyclops sp. 442=462=465=CB2 (salinarum in Morton)			
678.		Petrochelidon ariel (Fairy Martin)			
679.		Petrochelidon nigricans (Tree Martin)			
680. 681.	∠4059	Petroica goodenovii (Red-capped Robin) Petroscirtes breviceps			
682.		Petroscirtes mitratus			
683.		Pezidae sp.			
684.	25697	Phalacrocorax carbo (Great Cormorant)			
685.		Phalacrocorax melanoleucos (Little Pied Cormorant)			
686.	24667	Phalacrocorax sulcirostris (Little Black Cormorant)			
687.	25699	Phalacrocorax varius (Pied Cormorant)			
688.	24409	Phaps chalcoptera (Common Bronzewing)			
689.	24411	Phaps histrionica (Flock Bronzewing, Flock Pigeon)			
690.		Phorticosomus gularis			
691.		Phreodrilid with dissimilar ventral chaetae			
692. 693.		Phreodrilid with similar ventral chaetae Phreodrilus n. sp. WA32 (PSS)			
694.		Pilbarus millsi			
695.		Pinnularia borealis			
696.		Pinnularia divergens W. Sm.			
697.		Pinnularia subrostrata (A. Cl.) ClEuler			
698.		Pisodonophis cancrivorus			
699.	24101	Planigale ingrami (Long-tailed Planigale)			
700.		Planorbidae sp.			
701.		Platalea flavipes (Yellow-billed Spoonbill)			
702.	24842	Platalea regia (Royal Spoonbill)			
703. 704.		Platax teira Platycephalus indicus			
704.		Platycephalus sp.			
706.	25721	Platycercus zonarius (Australian Ringneck, Ring-necked Parrot)			
707.		Platycercus zonarius subsp. zonarius (Port Lincoln Parrot)			
708.		Plectorhinchus flavomaculatus			
709.		Plectorhinchus gibbosus			
710.		Plectorhinchus polytaenia			
711.		Pleidae sp.			
712.		Plotosus lineatus			
713.		Podargus strigoides (Tawny Frogmouth)			
714. 715.		Pogona minor (Dwarf Bearded Dragon)  Pogona minor subsp. minor (Dwarf Bearded Dragon)			
715. 716.		Poliocephalus poliocephalus (Hoary-headed Grebe)			
710.	2-7001	Polyarthra dolichoptera			
718.		Polydactylus multiradiatus			
719.		Polydactylus plebius			
720.		Polypedilum leei			
721.		Pomacentrid sp.			
722.		Pomacentrus milleri			
723.		Pomacentrus nagasakiensis			
724.		Pomadasys argenteus			
725.		Pomadasys kaakan			
726. 727.	25700	Pomatomus saltatrix  Pomatostomus tomporalis (Gray crowned Rabbler)			
727. 728.		Pomatostomus temporalis (Grey-crowned Babbler)  Pomatostomus temporalis subsp. rubeculus (Grey-crowned Babbler)			
720.	2-700-1		Department o	Biodiversity.	WESTERN







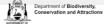
	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
729.		Porzana fluminea (Australian Spotted Crake)			
730.	25/32	Porzana pusilla (Baillon's Crake)			
731. 732.		Pristina longiseta Procladius paludicola			
733.		Protonibea diacanthus			
734.		Psammoperca waigiensis			
735.		Psettodes erumei			
736.	24105	Pseudantechinus roryi (Rory's Pseudantechinus)			
737.		Pseudechis australis (Mulga Snake)			
738.		Pseudomys desertor (Desert Mouse)			
739. 740.		Pseudomys hermannsburgensis (Sandy Inland Mouse) Pseudonaja mengdeni (Western Brown Snake)			
741.		Pseudonaja modesta (Ringed Brown Snake)			
742.	25264	Pseudonaja nuchalis (Gwardar, Northern Brown Snake)			
743.	24063	Pseudorca crassidens (False Killer Whale)			
744.		Pseudorhombus argus			
745.	0.4000	Pseudorhombus arsius			
746. 747.	24390	Psophodes occidentalis (Western Wedgebill, Chiming Wedgebill) Pterois antennata			
747.		Pterois sp.			
749.		Pterois volitans			
750.	24172	Pteropus alecto (Black Flying-fox)			
751.		Pteropus scapulatus (Little Red Flying-fox)			
752.		Pygopus nigriceps			
753.	24278	Pyrrholaemus brunneus (Redthroat)			
754. 755.	2/12/15	Rachycentron canadum Rattus rattus (Black Rat)	Y		
755. 756.		Rattus tunneyi (Pale Field-rat)	·		
757.		Recurvirostra novaehollandiae (Red-necked Avocet)			
758.		Rheotanytarsus juliae			
759.	48096	Rhipidura albiscapa (Grey Fantail)			
760.		Rhipidura leucophrys (Willie Wagtail)			
761.		Rhipidura phasiana (Mangrove Grey Fantail)			
762. 763.	24982	Rhynchoedura ornata (Western Beaked Gecko) Sardinella albella			٧
764.		Sardinella gibbosa			·
765.		Sargocentron praslin			
766.		Sargocentron rubrum			
767.		Saurida gracilis			
768.		Saurida nebulosa			
769. 770.		Scolecenchelys macroptera Scomberoides commersonnianus			
770.		Scomberoides lysan			
772.		Scomberoides lysan?			Υ
773.		Scomberoides tol			
774.		Scomberomorus commerson			
775.		Scomberomorus queenslandicus			
776.		Scomberomorus semifasciatus			
777. 778.		Selaroides leptolepis Selenotoca multifasciata			
778.		Siganus fuscescens			
780.		Sillago analis			
781.		Sillago burrus			
782.		Sillago ingenuua?			Υ
783.		Sillago lutea			
784. 785.	25205	Sillago sihama Simoselaps anomalus (Desert Banded Snake)			
786.		Smicrornis brevirostris (Weebill)			
787.		Sminthopsis macroura (Stripe-faced Dunnart)			
788.		Sminthopsis youngsoni (Lesser Hairy-footed Dunnart)			
789.		Sphyraena barracuda			
790.		Stauroneis anceps Ehr.			
791.		Staurosira construens Ehr.			
792. 793.	2/1524	Stegostoma fasciatum Sterna bengalensis (Lesser Crested Tern)			
793. 794.		Sterna bergii (Crested Tem)			
795.		Sterna hybrida (Whiskered Tern)			
796.		Sternopriscus sp.			
797.	48594	Sternula nereis (Fairy Tern)			
798.		Stethojulis interrupta	£13		
			Department of	Biodiversity,	MESTERN







	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
799.	24482	Stiltia isabella (Australian Pratincole)			
800. 801.		Stolephorus carpentariae Stolephorus commersonii			
802.		Strongylura strongylura			
803.	24932	Strophurus jeanae			
804.	24942	Strophurus spinigerus subsp. spinigerus			
805.	24946	Strophurus strophurus			
806.		Stygonitocrella bispinosa			
807.		Stygonitocrella unispinosa			
808. 809.	25269	Supunna picta Suta fasciata (Rosen's Snake)			
810.		Suta punctata (Spotted Snake)			
811.		Synanceia horrida			
812.		Synsphyronus callus			
813.		Tabanidae sp.			
814.		Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)			
815.		Tachyglossus aculeatus (Short-beaked Echidna)			
816. 817.	30870	Taeniopygia guttata (Zebra Finch) Tamopsis occidentalis			
818.		Tanypodinae sp.			
819.		Tasmanocoenis arcuata			
820.		Tasmanocoenis sp. E (PSW)			
821.		Tathicarpus butleri			
822.		Terapon jarbua			
823.		Terapon puta			
824. 825.		Terapon thereps			Υ
825. 826.		Terapon theraps Testudinella cf trilobata (=sp P3 PSW)			
827.		Testudinella parva			
828.		Testudinella patina			
829.		Thalasseus bengalensis			
830.		Thalassoma amblycephalum			
831.	24845	Threskiornis spinicollis (Straw-necked Ibis)			
832. 833.		Thryssa mystax? Thryssa scratchleyi?			
834.		Thryssa sciacineyr: Thryssa setirostris			
835.	25202	Tiliqua multifasciata (Central Blue-tongue)			
836.		Todiramphus chloris (Collared Kingfisher)			
837.	24306	Todiramphus chloris subsp. pilbara (Pilbara Collared Kingfisher)			
838.		Todiramphus pyrrhopygius (Red-backed Kingfisher)			
839.	25549	Todiramphus sanctus (Sacred Kingfisher)			
840. 841.		Trachinotus baillonii Triacanthus biaculeatus			
842.	48141	Tribonyx ventralis (Black-tailed Native-hen)			
843.		Trichocarenum cylindricum			
844.		Trichocerca cf. tigris			Υ
845.		Trichocerca similis			
846.		Trichocerca tigris			
847.		Trichocyclus nigropunctatus			
848.		Trichoniscidae sp.  Trione australiansis australiansis			Υ
849. 850.		Triops australiensis australiensis Triplectides australis			
851.		Turbellaria sp.			
852.	24848	Turnix pyrrhothorax (Red-chested Button-quail)			
853.	24851	Turnix velox (Little Button-quail)			
854.		Tursiops aduncus (Indo-Pacific Bottlenose Dolphin)			
855.	25762	Tyto alba (Barn Owl)			
856. 857.		Tyto delicatula Urodacus varians			
858.		Valenciennea muralis			
859.	25577	Vanellus miles (Masked Lapwing)			
860.		Vanellus tricolor (Banded Lapwing)			
861.		Varanus acanthurus (Spiny-tailed Monitor)			
862.		Varanus brevicauda (Short-tailed Pygmy Monitor)			
863.	25211				
864. 865.		Varanus eremius (Pygmy Desert Monitor)  Varanus gouldii (Bungarra or Sand Monitor)			
866.		Varanus gouldii (Bungarra or Sand Monitor)  Varanus panoptes (Yellow-spotted Monitor)			
867.	25223	Varanus panoptes (Tenow spatied Monitor)  Varanus panoptes subsp. rubidus			
868.		Varanus tristis (Racehorse Monitor)			
			Department	of Biodiversity.	WESTERN







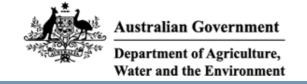
	Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
869.		Veliidae sp.			
870.	24205	Vespadelus finlaysoni (Finlayson's Cave Bat)			
871.	24040	Vulpes vulpes (Red Fox)	Υ		
872.		Wydundra kennedy			
873.		Xanthagrion erythroneurum			
874.		Xyrichtys sp.			
875.		Yongeichthys nebulosus			
876.		Zabidius novemaculeatus			
877.		Zonocypretta kalimna			
878.	25765	Zosterops lateralis (Grey-breasted White-eye, Silvereye)			
879.	24857	Zosterops luteus (Yellow White-eye)			
880.		Zosterops luteus subsp. balstoni			

- Conservation Codes

  1 Rare or likely to become extinct
  X Presumed extinct
  IA Protected under international agreement
  5 Other specially protected fauna
  1 Priority 1
  2 Priority 2
  3 Priority 2
  4 Priority 4
  5 Priority 5

- <sup>1</sup> For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.





## **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.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

Report created: 14/07/21 15:43:19

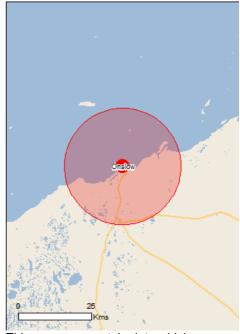
**Summary** 

**Details** 

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2015

Coordinates
Buffer: 20.0Km



### Summary

#### Matters of National Environmental 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 <u>Administrative Guidelines on Significance</u>.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	26
Listed Migratory Species:	42

#### 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 http://www.environment.gov.au/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 Land:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	80
Whales and Other Cetaceans:	13
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

#### **Extra Information**

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

State and Territory Reserves:	None
Regional Forest Agreements:	None
Invasive Species:	12
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

### Details

### Matters of National Environmental Significance

Listed Threatened Species		[ Resource Information ]
Name	Status	Type of Presence
Birds		
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
<u>Limosa lapponica menzbieri</u> Northern Siberian Bar-tailed Godwit, Russkoye Bar- tailed Godwit [86432]	Critically Endangered	Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Sternula nereis nereis Australian Fairy Tern [82950]  Mammals	Vulnerable	Breeding known to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species

Name	Status	Type of Presence
Rhinonicteris aurantia (Pilbara form)		habitat known to occur within area
Pilbara Leaf-nosed Bat [82790]	Vulnerable	Species or species habitat may occur within area
Reptiles		
Aipysurus apraefrontalis		
Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Aipysurus foliosquama Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
<u>Chelonia mydas</u> Green Turtle [1765]	Vulnerable	Breeding known to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Sharks		
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Pristis clavata  Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species		[ Resource Information ]
* Species is listed under a different scientific name on	the EPRC Act - Threatened	
Name	Threatened	Type of Presence
Migratory Marine Birds	Till calcileu	Type of Freschild
Anous stolidus		
Common Noddy [825]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur

Name	Threatened	Type of Presence
		within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Onychoprion anaethetus Bridled Tern [82845]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur
Migratory Marine Species		within area
Anoxypristis cuspidata		
Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Species or species habitat may occur within area
Balaenoptera edeni		
Bryde's Whale [35]		Species or species habitat may occur within area
Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Dugong dugon Dugong [28]		Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat known to occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257] Orcinus orca	Vulnerable	Breeding known to occur within area
Killer Whale, Orca [46]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Pristis clavata		
Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
<u>Tursiops aduncus (Arafura/Timor Sea populations)</u> Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Migratory Terrestrial Species		
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
<u>Charadrius veredus</u> Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
<u>Limosa Iapponica</u> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area

Name	Threatened	Type of Presence
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

#### Other Matters Protected by the EPBC Act

#### Commonwealth Land [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.

١	J	а	n	า	e

Commonwealth Land -

<u>Calonectris leucomelas</u> Streaked Shearwater [1077]

Listed Marine Species		[ Resource Information ]
* Species is listed under a different scientific name on the	he EPBC Act - Threatened	Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area

Species or species habitat

may occur within

Name	Threatened	Type of Presence
		area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species habitat known to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Larus novaehollandiae Silver Gull [810] Limosa lapponica		Breeding known to occur within area
Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Sterna anaethetus Bridled Tern [814]		Breeding known to occur within area
Sterna bengalensis Lesser Crested Tern [815]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Name	Threatened	Type of Presence
Fish		
Acentronura larsonae		
Helen's Pygmy Pipehorse [66186]		Species or species habitat may occur within area
Bulbonaricus brauni		
Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area
Campichthys tricarinatus		
Three-keel Pipefish [66192]		Species or species habitat may occur within area
Choeroichthys brachysoma		
Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Choeroichthys latispinosus		
Muiron Island Pipefish [66196]		Species or species habitat may occur within area
Choeroichthys suillus		
Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Doryrhamphus dactyliophorus		
Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area
Doryrhamphus janssi		
Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
Doryrhamphus multiannulatus		
Many-banded Pipefish [66717]		Species or species habitat may occur within area
Doryrhamphus negrosensis		
Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area
Festucalex scalaris		
Ladder Pipefish [66216]		Species or species habitat may occur within area
Filicampus tigris		
Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus brocki		
Brock's Pipefish [66219]		Species or species habitat may occur within area
Halicampus grayi		
Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus		
Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinirostris		
Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Haliichthys taeniophorus		
Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
Hippichthys penicillus		
Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area

may occur within area

Name	Threatened	Type of Presence
Hippocampus angustus		
Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
I linna a annua histoire		
Hippocampus histrix Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
Hippocampus kuda		
Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons		
Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus trimaculatus		
Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area
Micrognathus micronotopterus		
Tidepool Pipefish [66255]		Species or species habitat may occur within area
Phoxocampus belcheri		
Black Rock Pipefish [66719]		Species or species habitat may occur within area
Solegnathus hardwickii		
Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solegnathus lettiensis		
Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Solenostomus cyanopterus		
Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Syngnathoides biaculeatus		
Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus		
Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Trachyrhamphus longirostris		
Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
Mammals		
<u>Dugong dugon</u>		
Dugong [28]		Species or species habitat known to occur within area
Reptiles		
Acalyptophis peronii		
Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus apraefrontalis		
Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Aipysurus duboisii		
Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii		
Spine-tailed Seasnake [1117]		Species or species habitat may occur within

Name	Threatened	Type of Presence
		area
Aipysurus foliosquama Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Astrotic stalescii		
Astrotia stokesii Stokes' Seasnake [1122]		Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Disteira kingii		
Spectacled Seasnake [1123]		Species or species habitat may occur within area
<u>Disteira major</u> Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Ephalophis greyi North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Hydrophis czeblukovi		
Fine-spined Seasnake [59233]		Species or species habitat may occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area
Whales and other Cetaceans		[ Resource Information ]
Name	Status	Type of Presence
Mammals		J1
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within

Name	Status	Type of Presence
Balaenoptera musculus		area
Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<u>Delphinus delphis</u>		
Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis		
Southern Right Whale [40]	Endangered	Species or species habitat may occur within area
<u>Grampus griseus</u>		
Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
<u>Orcinus orca</u>		
Killer Whale, Orca [46]		Species or species habitat may occur within area
Sousa chinensis		
Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
Stenella attenuata		
Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<u>Tursiops aduncus</u>		
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations)		
Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species habitat may occur within area

#### **Extra Information**

#### Invasive Species [Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Birds		
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Mammals		

Name	Status	Type of Presence
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Prosopis spp. Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Reptiles Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat may occur within area

#### Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

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.

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

Where very little information is available for 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 reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

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

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

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

#### Coordinates

-21.63589 115.10761

### Acknowledgements

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

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

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

Please feel free to provide feedback via the Contact Us page.

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# Appendix B Literature Review

Report	Project Area	Survey Timing and limitations	Survey Effort	Conservation Significant Fauna	Fauna Habitats
Onslow Townsite Strategy Flora, Vegetation and Fauna Assessment (ENV Australia Pty Ltd, 2011)	Overlapping with the Survey Area	May 2011	Basic fauna survey	<ul> <li>Eastern Osprey (<i>Pandion haliaetus cristatus</i>) – IA (DBCA); MI, MA (EPBC)</li> <li>Caspian Tern (<i>Hydroprogne caspia</i>) – IA (DBCA); MI, MA (EPBC)</li> </ul>	Two habitats were identified:  Shrubland of Acacia species over hummock grassland  Beach
West Pilbara Iron Ore Project Onslow Rail Corridor Terrestrial Fauna Survey (Biota Environmental Sciences, 2009)	Approximately 14 km southwest of the Survey Area	October 2008	Detailed fauna survey	<ul> <li>Red-necked Stint (Calidris ruficollis) – IA (DBCA); MI, MA (EPBC)</li> <li>Greater Sand Plover (Charadrius leschenaultii) – VU, IA (DBCA); VU, MI, MA (EPBC)</li> <li>Wood Sandpiper (Tringa glareola) – IA (DBCA); MI, MA (EPBC)</li> <li>Common Greenshank (Tringa nebularia) – IA (DBCA); MI, MA (EPBC)</li> <li>Northern Quoll (Dasyurus hallucatus) – EN (DBCA); EN (EPBC)</li> </ul>	<ul> <li>Six habitats were identified:</li> <li>Buffel grass (<i>Cenchrus ciliaris</i>) and <i>Triodia</i> sp. on red silty loam</li> <li><i>Triodia</i> sp. on red sand dune</li> <li>Samphire flat</li> <li><i>Acacia</i> sp. and <i>Triodia</i> sp. on stony loam alongside drainage line</li> <li><i>Acacia</i> sp. and <i>Triodia</i> sp. on loam</li> <li><i>Triodia</i> sp. on stony loam scree slope</li> </ul>
West Pilbara Iron Ore Project Onslow Rail Corridor – Level 1 Fauna Assessment (Biota Environmental Sciences, 2008)	Approximately 14 km southwest of the Survey Area	2008	Desktop Assessment	• NA	Five habitats were identified:  Mudflats Alluvial Plains Sandy Plains Stony Plains Mesas and Hills
A Level 1 Vertebrate Fauna Assessment of the Proposed Tubridgi to Wheatstone Gas Pipeline, Western Australia (Ninox Wildlife Consulting, 2013)	Approximately 14 km southwest of the Survey Area	April 2013	Basic fauna survey	• -	Thirteen habitats were identified:  Tidal Mudflats/Creeks & Mangroves  Seasonally inundated inland wetlands  Chenopod Shrublands  Acacia over spinifex & buffel on sand  Acacia over spinifex on clay  Grasslands on clay  Shrubs over spinifex on sand  Eucs & shrubs over grasses on clay  Eucs & shrubs over spinifex & buffel on clay  Eucs over shrubs & grasses on clay  Riparian Zoneson clay  Riparian Zones on sandy clay

Report	Project Area	Survey Timing and limitations	Survey Effort	Conservation Significant Fauna	Fauna Habitats
A Level 1 Vertebrate Fauna Assessment of the Proposed Ashburton North Gas Pipeline, Western Australia (Ninox Wildlife Consulting, 2014)	Approximately 15 km south of the Survey Area	April/ May 2014	Basic fauna survey	• -	Five habitats were identified:  Seasonally inundated inland wetlands Chenopod Shrublands Acacia over spinifex on sand Acacia over spinifex on clay Eucs & shrubs over spinifex on clay
Onslow Rare Earths Plant Fauna Assessment (Bamford Consulting Ecologists, 2021)	Approximately 16 km southwest of the Survey Area	September/ October 2020	Basic fauna survey	• -	Four habitats were identified:  Undulating dunes  Sandy loam flats  Claypans  Outcropping limestone
Flora and vegetation survey and terrestrial fauna survey for the Pilbara Regional Waste Management Facility (Phoenix Environmental Sciences, 2017)	Approximately 33 km south of the Survey Area	September 2017	Desktop review Targeted terrestrial fauna survey	• -	Two habitats were identified:.  Mosaic of hummock grassland and shrubland on plain  Shrubland on sand dune



## Appendix C Fauna Habitat Assessments



							BBF1a		
Project:		Lot 300, Back B	Beach Rd, Onslow - De	tailed Fauna	Survey			#7 XAC	
Date		26/04/2022			Personnel	PW		Market - Sales	De la companya de la
Zone	50	Ea	sting	304248		Northing	7606262		
		Landform ar	nd soil			Ro	ck		
Landform		Dune slope			Rock type/s	None			
Aspect		East			Surface stone cover				
Soil type		Sand			Surface stone size classes				
Soil colour		Orange			present				
		Condition	on			Habitat F	eatures		
Quality		Good			Water Source	Absent			
Fire History			vidence (>5 years)		Microhabitats	Leaf litter, Peeling ba	rk	and the second second	
Disturbance		Weeds							
Introduced f	fauna	Cat			Ground Cover	26-50%			
					Vegetation	,			
Upper stratu	um	Absent							
Mid stratum	1	Tall (>2 m)	Open shrubl	and and/or he	athland (20-50%)	Acacia coriacea			
Ground strat	tum	Mid (0.5-1 m)	Sparse grass	land (0.25-20%	)	*Cenchrus ciliaris		Fulcrum photo ID	https://web.fulcrumapp.com/photos/view?photos=17104860-494c-

							BBF1b	
Project:		Lot 300, Back Bea	ch Rd, Onslow - De	tailed Fauna S	Survey			
Date		26/04/2022			Personnel	PW		
Zone	50	Easti	ng	304295		Northing	7606260	
		Landform and	soil			R	tock	
Landform		Dune crest			Rock type/s	None		
Aspect		-			Surface stone cover			
Soil type		Sand			Surface stone size classes			
Soil colour		Orange			present			
		Condition			abitat Features			
Quality		Very good			Water Source	Absent		
Fire History	у	Little or no fire evid	ence (>5 years)		- Microhabitats	Leaf litter, Peeling b	nark	
Disturbanc	e	Weeds			Which of abitats	Lear litter, reeling b	Jaik	
Introduced	l fauna	Cat			Ground Cover	26-50%		* *
					Vegetation			The state of the s
Upper stra	tum	Absent						
Mid stratu	m	Tall (>2 m)	Sparse shrul	bland and/or he	eathland (0.25-20%)	Acacia coriacea		
Ground str	atum	Mid (0.5-1 m)	Sparse grass	land (0.25-20%	)	*Cenchrus ciliaris		Fulcrum pho



https://web.fulcrumapp.com/photos/view?photos=834a8d60-c72d-



							BBF2a			
Project:		Lot 300, Back Beach	Rd, Onslow - Deta	ailed Fauna S	Survey				St. R. W. T. AND LOCAL	
Date		24/04/2022			Personnel	PW				
Zone	50	Easting		303911		Northing	7606217			TU WILLIAM TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TOT
		Landform and soil				R	ock			
Landform		Dune swale			Rock type/s	None				
Aspect		Southeast			Surface stone cover				NEW	
Soil type		Sand			Surface stone size classes					
Soil colour		Orange			present					
		Condition				Habitat	Features			
Quality		Very good			Water Source	Absent			Contract of the Contract of th	
Fire History		Little or no fire evidenc	e (>5 years)		- Microhabitats	Leaf litter, Peeling b	ark		Samuel Control	THE PARTY OF THE P
Disturbance		Weeds					u			
Introduced fa	auna	Cat			Ground Cover	26-50%				
					Vegetation					
Upper stratu	ım	Absent								
Mid stratum		Tall (>2 m)	Open shrublar	nd and/or hea	ithland (20-50%)	Acacia coriacea				
Ground strat	tum	Low (>0.5 m)	Open grasslan	nd (20-50%)		*Cenchrus ciliaris, Ti	hrelkeldia diffusa	F	ulcrum photo ID	https://web.fulcrumapp.com/photos/view?photos=1bcfe099-5fde-

							BBF2b		
Project:		Lot 300, Back Be	ach Rd, Onslow - De	tailed Fauna S	Survey				to other
Date		21/04/2022			Personnel	PW			
Zone	50	East	ing	303989		Northing	7606191		
		Landform and	soil			Re	ock		
Landform		Dune crest			Rock type/s	None			
Aspect		-			Surface stone cover				Switz .
Soil type		Sand			Surface stone size classes				
Soil colour		Orange			present				
		Condition			abitat Features				
Quality		Very good			Water Source	Absent		•	
Fire History		Little or no fire evi	dence (>5 years)		- Microhabitats	Leaf litter, Peeling b	ark Woody dobris		
Disturbance	•	Weeds, Vehicle tra	cks		Whereitableats	Lear litter, Feeling Di	ark, woody debris		1.1
Introduced t	fauna	Cat			Ground Cover	26-50%			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					Vegetation				A Section 1
Upper strati	um	Absent							
Mid stratum	n	Tall (>2 m)	Sparse shrub	oland and/or he	eathland (0.25-20%)	Acacia coriacea			7 22 4
Ground stra	atum	Low (>0.5 m)	Open grassla	and (20-50%)		*Cenchrus ciliaris, Th	nrelkeldia diffusa		Fulcrum photo ID



https://web.fulcrumapp.com/photos/view?photos=1f33f661-849f-



## Appendix D Fauna Species List

Conservation Status: State - Listed under Biodiversity Conservation Act 2016, Federal - Listed under Environmental Protection and Biodiversity Conservation Act 1999. MI/IA - Migratory, MA - Marine.

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Family	Scientific Name	Common Name	State	Federal	Capture	Sighting	Camera	ARU	Call	Remains	Scat	Tracks
Amphibian												
Pelodryadidae	Litoria caerulea	Green Tree Frog				2						
Aves												
Scolopacidae	Actitis hypoleucos	Common Sandpiper	IA	MI, MA		4						
Anhingidae	Anhinga novaehollandiae	Australasian Darter		,		1						
Artamidae	Artamus leucorynchus	White-breasted Woodswallow				43						
Charadriidae	Charadrius ruficapillus	Red-capped Plover		MA		26						
Hirundinidae	Cheramoeca leucosterna	White-backed Swallow				3						
	Hirundo neoxena	Welcome Swallow		MA		26			4			
Campephagidae	Coracina novaehollandiae	Black-faced Cuckooshrike		MA		3						
Corvidae	Corvus orru	Torresian Crow				7			3			
Ardeidae	Egretta sacra	Eastern Reef Heron		MA		3						
Falconidae	Falco cenchroides	Australian Kestrel		MA		5						
	Falco longipennis	Australian Hobby				1						
Meliphagidae	Gavicalis virescens	Singing Honeyeater				4						
	Lichmera indistincta	Brown Honeyeater				2						
	Manorina flavigula	Yellow-throated Miner				14						
	Melithreptus brevirostris	Brown-headed Honeyeater				1						
	Ptilotula penicillata	White-plumed Honeyeater				82			8			
Columbidae	Geopelia striata placida	Peaceful Dove				6	1					
	Geophaps plumifera	Spinifex Pigeon				12						
	Ocyphaps lophotes	Crested Pigeon					1					
Haematopodidae	Haematopus fuliginosus	Sooty Oystercatcher				7						
	Haematopus longirostris	Pied Oystercatcher				8						
Laridae	Hydroprogne caspia	Caspian Tern	IA	MI, MA		40			12			
	Larus novaehollandiae	Silver Gull		MA		197			21	2		
	Thalasseus bengalensis	Lesser Crested Tern		MA		9						
	Thalasseus bergii	Greater Crested Tern	IA	MI, MA		108						
Maluridae	Malurus assimilis	Purple-backed Fairywren				23			3			

							Me	thod			
Scientific Name	Splendid Fairywren Rufous-crowned Emu-wren Budgerigar Rainbow Bee-eater Star Finch Zebra Finch Osprey Grey-crowned Babbler Willie Wagtail Grey-breasted White-eye Northern Freetail Bat Gould's Wattled Bat	State	Federal	Capture	Sighting	Camera	ARU	Call	Remains	Scat	Tracks
Malurus leucopterus	White-winged Fairywren				3	1		8			
Malurus splendens	Splendid Fairywren				7			2			
Stipiturus ruficeps	Rufous-crowned Emu-wren				1						
Melopsittacus undulatus	Budgerigar				2			1			
Merops ornatus	Rainbow Bee-eater		MA		10			1			
Neochmia ruficauda	Star Finch				3						
Taeniopygia guttata	Zebra Finch				21			5			
Pandion haliaetus	Osprey	IA	MI, MA		8						
Pomatostomus temporalis	Grey-crowned Babbler							4			
Rhipidura leucophrys	Willie Wagtail				1						
Zosterops lateralis			MA		6						
Chaerephon jobensis	Northern Freetail Bat						1				
	Gould's Wattled Bat						1				
Felis catus	Cat					3				1	1
Osphranter sp.									2		2
Mus musculus	House Mouse			3		1					
Notomys alexis alexis	Spinifex Hopping-mouse			2	1	2					
·							1				
·				1							
·	·					2					
Ctenophorus femoralis	Dune Dragon			3							
· · · ·	•			1	1						
<u>`</u>				5		2					
·						_					
·											
				1							
	Central Blue-tongue					.1					
· · · · · · · · · · · · · · · · · · ·	22			1							
	Variegated gehvra				2						
	<u> </u>										
Heteronotia binoei				2							
	Malurus leucopterus Malurus splendens Stipiturus ruficeps Melopsittacus undulatus Merops ornatus Neochmia ruficauda Taeniopygia guttata Pandion haliaetus Pomatostomus temporalis Rhipidura leucophrys Zosterops lateralis  Chaerephon jobensis Chalinolobus gouldii Felis catus Osphranter sp. Mus musculus Notomys alexis alexis Saccolaimus flaviventris Sminthopsis macroura Vulpes vulpes  Ctenophorus femoralis Gowidon longirostris Ctenotus superciliaris Lerista bipes Lerista onsloviana Morethia ruficauda Tiliqua multifasciata Demansia psammophis reticulata Gehyra variegata Hemidactylus frenatus	Malurus leucopterusWhite-winged FairywrenMalurus splendensSplendid FairywrenStipiturus ruficepsRufous-crowned Emu-wrenMelopsittacus undulatusBudgerigarMerops ornatusRainbow Bee-eaterNeochmia ruficaudaStar FinchTaeniopygia guttataZebra FinchPandion haliaetusOspreyPomatostomus temporalisGrey-crowned BabblerRhipidura leucophrysWillie WagtailZosterops lateralisGrey-breasted White-eyeChaerephon jobensisNorthern Freetail BatChalinolobus gouldiiGould's Wattled BatFelis catusCatOsphranter sp.Aus musculusNotomys alexis alexisSpinifex Hopping-mouseSaccolaimus flaviventrisYellow-bellied Sheath-tailed BatSminthopsis macrouraStripe-faced DunnartVulpes vulpesRed FoxCtenophorus femoralisDune DragonGowidon longirostrisLong-nosed DragonCtenotus superciliarisLerista bipesLerista bipesLerista onslovianaMorethia ruficaudaTiliqua multifasciataCentral Blue-tongueDemansia psammophis reticulataCentral Blue-tongueDemansia psammophis reticulataGehyra variegataVariegated gehyraHemidactylus frenatusAsian House Gecko	Malurus leucopterus Malurus ryficeps Stipiturus ruficeps Melopsittacus undulatus Merops ornatus Neochmia ruficauda Taeniopygia guttata Pomatostomus temporalis Chalinolobus gouldii Felis catus Cat Osphranter sp. Mus musculus Mus Mexis alexis Spinifex Hopping-mouse Saccolaimus flaviventris Spinifex Hopping-mouse Spinifex Hopping-mouse Scenotus superciliaris Lerista bipes Lerista onsloviana Mareus variegata Mendiacus Merops ornatus Musit Geny-crowned Emu-wren Musit Geny-crowned Emu-wren Mus Mee-eater Rufous-crowned Emu-wren Mus Mee-eater Rufous-crowned Babbler Rufipidura leucophrys Willie Wagtail Grey-breasted White-eye  Chaerephon jobensis Northern Freetail Bat Chalinolobus gouldii Gould's Wattled Bat Felis catus Cat Osphranter sp. Mus musculus House Mouse Notomys alexis alexis Spinifex Hopping-mouse Saccolaimus flaviventris Yellow-bellied Sheath-tailed Bat Sminthopsis macroura Stripe-faced Dunnart Vulpes vulpes  Ctenophorus femoralis Gowidon longirostris Long-nosed Dragon Ctenotus superciliaris Lerista bipes Lerista onsloviana Morethia ruficauda Tiliqua multifasciata Central Blue-tongue Demansia psammophis reticulata Gehyra variegata Variegated gehyra Hemidactylus frenatus Asian House Gecko	Malurus leucopterus Malurus splendens Splendid Fairywren Stipiturus ruficeps Rufous-crowned Emu-wren Melopsittacus undulatus Merops ornatus Rainbow Bee-eater MA Neochmia ruficauda Star Finch Taeniopygia guttata Zebra Finch Osprey Pandion haliaetus Osprey Riflie Wagtail Zosterops lateralis Grey-crowned Babbler Rhipidura leucophrys Willie Wagtail Zosterops lateralis Gould's Wattled Bat Felis catus Cat Osphranter sp. Mus musculus Notomys alexis alexis Spinifex Hopping-mouse Saccolaimus flaviventris Sminthopsis macroura Vulpes Ctenophorus femoralis Dune Dragon Gowidon longirostris Lerista bipes Lerista onsloviana Morethia ruficauda Tiliqua multifasciata Demansia psammophis reticulata Gehyra variegata Hemidactylus frenatus Pallow-crowned Babbler MA MII, MA Pomatostomus dee-eater MA MII, MA MI, MA MII, MA MII	Scientific Name  Common Name  White-winged Fairywren  Malurus splendens Splendid Fairywren Stipiturus ruficeps Rufous-crowned Emu-wren Melopsittacus undulatus Budgerigar Merops ornatus Rainbow Bee-eater MA Neochmia ruficauda Star Finch Taeniopygia guttata Pandion haliaetus Osprey IA MI, MA Pomatostomus temporalis Grey-crowned Babbler Rhipidura leucophrys Willie Wagtail Zosterops lateralis Osprey-breasted White-eye MA  Chaerephon jobensis Chalinolobus gouldii Gould's Wattled Bat Felis catus Cat Osphranter sp. Mus musculus House Mouse Notomys alexis alexis Spinifex Hopping-mouse Saccolaimus flaviventris Yellow-bellied Sheath-tailed Bat Sminthopsis macroura Stripe-faced Dunnart Vulpes vulpes  Ctenophorus femoralis Dune Dragon Gowidon longirostris Long-nosed Dragon 1 Ctenotus superciliaris Lerista onsloviana Robertia ruficauda Tiliqua multifasciata Demansia psammophis reticulata Gehyra variegata Variegated gehyra Hemidactylus frenatus Asian House Gecko	Malurus leucopterus   White-winged Fairywren   3   3   3   3   3   3   3   3   3	Malurus leucopterus   White-winged Fairywren   3   1	Malurus leucopterus   White-winged Fairywren   3	Scientific Name  Common Name  Rainrus leucopterus  White-winged Fairywren  Splendid Fairywren  To 2  Stipitrus ruffceps  Rufous-crowned Emu-wren  Melopsitracus undulotus  Budgerigar  Melopsitracus undulotus  Budgerigar  Melopsornatus  Rainbow Bee-eater  MA  10  1  Merops ornatus  Rainbow Bee-eater  MA  10  1  Rocarhima ruffcauda  Star Finch  3  Taeniopygia guttata  Zebra Finch  Pomatous ornatus  Serve-crowned Babbler  Rufipidura leucophrys  Willie Wagtail  Costrops Interalis  Grey-breasted White-eye  MA  Chaerephon jobensis  Chaerephon jobensis  Chaerephon jobensis  Northern Freetail Bat  Chaerephon jobensis  Cat  Splendid Swattled Bat  Cat  Splendid Swattled Bat  Felis catus  Cat  Splendid Swattled Bat  Notomys alexis alexis  Spinifex Hopping-mouse  Saccolaimus flaviventris  Yellow-bellied Sheath-tailed Bat  Sminthopsis macroura  Stripe-faced Dunnart  Vulpes vulpes  Red Fox   Ctenophorus femoralis  Dune Dragon  Ctenotus superciliaris  Long-nosed Dragon  Tiliqua multifosciata  Central Blue-tongue  Demansia psammophis reticulata  Gehyra variegata  Hemidactylus frenatus  Asian House Gecko  2  Variegated gehyra  Hemidactylus frenatus	Scientific Name   Common Name   Page   Pag	Malurus leucopterus   White-winged Fairywren   3

			Conse Sta	rvation tus				Met	hod			
Family	Scientific Name	Common Name	State	Federal	Capture	Sighting	Camera	ARU	Call	Remains	Scat	Tracks
Pygopodidae	Lialis burtonis					1						
Diplodactylidae	Lucasium stenodactylus				11	1						
	Strophurus strophurus				5	1						
Carphodactylidae	Nephrurus levis				3	1						



# Appendix E eBird and Birdata Records

	Common Name	Conservation Status		No Be	o corde										Mon	thly Reco	ords (% of	No. Moi	nthly Sur	veys)									
Taxon				No. Records		Januray		February		March		April		May		June		Ju	ily	Aug	August		September		October		November		December
1		State	Federal	eBird	Birdata	eBird	Birdata	eBird	Birdata	eBird	Birdata	eBird	Birdata	eBird	Birdata	eBird	Birdata	eBird	Birdata	eBird	Birdata	eBird	Birdata	eBird	Birdata	eBird	Birdata	eBird	Birdata
Actitis hypoleucos	Common Sandpiper	IA	MI, MA	79	72	27.3	31.6	64.7	84.6	27.3	33.3	4.8	0.0	0.0	15.4	0.0	0.0	8.1	7.7	31.6	31.0	50.0	52.6	46.2	62.5	36.0	25.0	34.8	33.3
Apus pacificus	Pacific Swift	IA	MI, MA		1		0.0		0.0		0.0		3.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0
Arenaria interpres	Ruddy Turnstone	IA	MI, MA	118	98	81.8	78.9	82.4	76.9	77.3	61.1	52.4	30.3	0.0	7.7	0.0	0.0	2.7	2.6	10.5	9.5	50.0	47.4	46.2	75.0	52.0	50.0	73.9	83.3
Calidris acuminata	Sharp-tailed Sandpiper	IA	MI, MA		1		0.0		0.0		0.0		0.0		0.0		0.0		0.0		2.4		0.0		0.0		0.0		0.0
Calidris alba	Sanderling	IA	MI, MA	122	92	81.8	84.2	94.1	92.3	72.7	72.2	14.3	9.1	0.0	7.7	10.0	5.0	0.0	0.0	5.3	4.8	50.0	42.1	80.8	87.5	52.0	40.0	87.0	77.8
Calidris ruficollis	Red-necked Stint	IA	MI, MA	120	91	90.9	89.5	82.4	76.9	54.5	44.4	19.0	12.1	12.5	15.4	0.0	0.0	0.0	0.0	10.5	4.8	54.5	57.9	57.7	75.0	68.0	55.0	87.0	77.8
Calidris tenuirostris	Great Knot	CR, IA	CR, MI, MA	3	2	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	11.1
Charadrius leschenaultii	Greater Sand Plover	VU, IA	VU, MI, MA	185	136	90.9	89.5	94.1	92.3	81.8	77.8	76.2	42.4	31.2	53.8	25.0	15.0	27.0	12.8	47.4	28.6	77.3	63.2	88.5	93.8	68.0	55.0	87.0	77.8
Charadrius mongolus	Lesser Sand Plover	EN, IA	EN, MI, MA	4	9	0.0	0.0	0.0	0.0	0.0	5.6	4.8	3.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.4	9.1	15.8	3.8	6.3	0.0	0.0	0.0	5.6
Chlidonias leucopterus	White-winged Black Tern	IA	MI, MA	11	12	13.6	15.8	5.9	7.7	13.6	16.7	19.0	12.1	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gelochelidon nilotica	Gull-billed Tern	IA	MI, MA	72		31.8		23.5		22.7		23.8		25.0		20.0		13.5		18.4		9.1		26.9		40.0		52.2	$\sqrt{}$
Hirundo rustica	Barn Swallow	IA	MI, MA	16	9	9.1	0.0	11.8	0.0	4.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	25.0	21.7	16.7
Hydroprogne caspia	Caspian Tern	IA	MI, MA	135	120	72.7	68.4	58.8	69.2	36.4	38.9	42.9	27.3	56.3	76.9	50.0	40.0	32.4	33.3	26.3	26.2	72.7	78.9	53.8	50.0	40.0	40.0	47.8	50.0
Limosa lapponica	Bar-tailed Godwit	IA	MI, MA	178	139	95.5	94.7	100.0	100.0	90.9	77.8	61.9	30.3	37.5	46.2	10.0	10.0	18.9	17.9	21.1	14.3	72.7	78.9	88.5	100.0	92.0	75.0	95.7	94.4
Numenius madagascariensis	Far Eastern Curlew	CR, IA	CR, MI, MA	12	11	9.1	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.4	4.5	5.3	0.0	6.3	4.0	0.0	30.4	33.3
Numenius minutus	Little Curlew	IA	MI, MA	1	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	12.5	0.0	0.0	0.0	0.0
Numenius phaeopus	Whimbrel	IA	MI, MA	38	32	4.5	5.3	17.6	15.4	31.8	33.3	19.0	15.2	0.0	0.0	5.0	0.0	0.0	0.0	5.3	4.8	13.6	15.8	19.2	31.3	24.0	10.0	26.1	33.3
Pandion haliaetus	Osprey	IA	MI, MA	98	86	18.2	21.1	47.1	38.5	31.8	33.3	28.6	21.2	25.0	30.8	25.0	20.0	54.1	59.0	31.6	28.6	27.3	31.6	34.6	25.0	40.0	30.0	30.4	27.8
Pluvialis squatarola	Grey Plover	IA	MI, MA	24	22	40.9	42.1	11.8	15.4	0.0	0.0	0.0	0.0	6.3	7.7	0.0	0.0	0.0	0.0	2.6	2.4	18.2	21.1	3.8	12.5	8.0	5.0	17.4	16.7
Sterna dougallii	Roseate Tern	IA	MI, MA	2	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	5.0	0.0	0.0
Sterna hirundo	Common Tern	IA	MI, MA	97	74	72.7	78.9	76.5	84.6	68.2	66.7	38.1	18.2	6.3	7.7	0.0	0.0	8.1	0.0	10.5	0.0	13.6	15.8	30.8	43.8	56.0	45.0	52.2	55.6
Sternula albifrons	Little Tern	IA	MI, MA	33	24	31.8	21.1	35.3	23.1	18.2	16.7	4.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	18.8	36.0	40.0	13.0	11.1
Thalasseus bergii	Greater Crested Tern	IA	MI, MA	95	75	31.8	31.6	76.5	69.2	68.2	44.4	81.0	42.4	31.2	38.5	40.0	35.0	21.6	17.9	7.9	11.9	22.7	26.3	26.9	25.0	8.0	5.0	21.7	22.2
Tringa brevipes	Grey-tailed Tattler	IA, P4	MI, MA	158	115	86.4	84.2	82.4	76.9	95.5	77.8	81.0	42.4	18.8	30.8	10.0	5.0	10.8	2.6	26.3	11.9	63.6	63.2	76.9	93.8	64.0	50.0	78.3	72.2
Tringa nebularia	Common Greenshank	IA	MI, MA	17	14	18.2	15.8	5.9	7.7	4.5	5.6	9.5	6.1	0.0	7.7	0.0	0.0	0.0	0.0	5.3	2.4	9.1	10.5	3.8	6.3	8.0	0.0	8.7	11.1
No. Monthly Surveys	-			289	270	22	19	17	13	22	18	21	33	16	13	20	20	37	39	38	42	22	19	26	16	25	20	23	18