



**Ashburton Infrastructure Project**

**Vertebrate Fauna  
and Short-Range  
Endemic  
Invertebrate Fauna  
Assessment**

Prepared for  
**Mineral Resources Limited**

September 2021

● people ● planet ● professional

| Document Reference | Revision       | Prepared by                                     | Reviewed by           | Admin Review | Submitted to Client |            |
|--------------------|----------------|---|-----------------------|--------------|---------------------|------------|
|                    |                |   |                       |              | Copies              | Date       |
| 4441AG_Rev0        | Internal Draft | E. Webb<br>L. Geidans<br>P. Walker<br>T. Moulds | M. Stone<br>S. Walker | LI           | -                   | 29/07/2021 |
| 4441AG_Rev1        | Client Draft   | 360 Environmental                               | MRL                   | -            | 1x electronic copy  | 30/07/2021 |
| 4441AG_Rev2        | Client Final   | 360 Environmental                               | MRL                   | LI           | 1x electronic copy  | 01/09/2021 |
| 4441AG_Rev3        | Client Final   | 360 Environmental                               | MRL                   | LI           | 1x electronic copy  | 03/09/2021 |
| 4441AG_Rev4        | Client Final   | 360 Environmental                               | MRL                   | -            | 1x electronic copy  | 21/09/2021 |

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# Executive Summary

Mineral Resources Limited commissioned 360 Environmental to undertake a terrestrial vertebrate and Short-Range Endemic (SRE) invertebrate fauna assessment to support the development of the Ashburton Infrastructure Project. The Ashburton Infrastructure Project Haul Road involves developing a fully sealed private haul road that will begin at the boundary of the approved Buckland mine (Bungaroo South), about 45 km southwest of Pannawonica, and continue for approximately 150 km westward towards Onslow. The Survey Area comprises the proposed haul road alignment and associated buffer (approximately 250 m), supporting infrastructure areas such as the borrow pits, and a small area adjacent Wheatstone LNG. The Survey Area is approximately 30,238 ha. A portion of the Survey Area, comprising approximately 6,663 ha, was not assessed during field surveys because of access limitations. A 6,663 ha section of the Survey Area was included in the desktop assessment but could not be assessed during field surveys due to access limitations. Fauna habitat mapping has been extrapolated over a 3,418 ha portion of the area that could not be assessed to provide indicative fauna habitat mapping.

This report presents the background, methods, results, discussion, and conclusions of the following surveys<sup>1</sup>:

- Trip 1, June 2020 - basic terrestrial vertebrate fauna survey
- Trip 3, October 2020 - baseline detailed terrestrial vertebrate fauna survey, SRE pitfall trapping
- Trip 5, April 2021 - targeted conservation significant terrestrial vertebrate fauna survey and infill baseline detailed terrestrial vertebrate fauna survey
- Trip 10, May/June 2021 - infill targeted conservation significant terrestrial vertebrate fauna survey, detailed SRE survey.

Information from database search results and 17 previous studies undertaken within the region were reviewed during the desktop assessment. The desktop assessment identified 441 terrestrial vertebrate fauna taxa, of which 58 are conservation significant. An assessment of the likelihood of conservation significant vertebrate fauna occurring within the Survey Area was undertaken, which identified 21 taxa with a high likelihood of occurrence, eighteen taxa with a medium likelihood of occurrence, and eighteen taxa with a low likelihood of occurrence. The desktop assessment identified two possible SRE land snail species, however, these species are considered to have a low and very low likelihood of occurrence within the Survey Area.

The vertebrate fauna and SRE invertebrate fauna surveys followed the EPA (2020) *Technical Guidance - Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment* and the EPA (2016) *Technical Guidance for sampling of short-range endemic invertebrate fauna* where possible and practicable. A variety of fauna detection methods were utilised, including cage traps, pitfall traps, funnel traps, camera traps, autonomous recording units, active searching,

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<sup>1</sup> Field trips 2, 4, 6, 7, 8, and 9 were flora and vegetation surveys

leaf litter sampling and opportunistic observations. The vertebrate fauna surveys recorded a total of 144 taxa, comprising 62 birds, 25 mammals, 53 reptiles and three amphibians. The SRE field surveys recorded 307 individual specimens representing 24 taxa of invertebrates that have the potential to contain SRE species.

Fauna habitat mapping was based on a combination of field observations, fauna habitat assessment data and vegetation mapping undertaken by 360 Environmental botanists. Ten fauna habitats were mapped, of which the mesas and breakaways (0.13% of the Survey Area) and drainage line/river/creek habitats (6.90% of the Survey Area) represent the most value to conservation significant fauna and overall fauna assemblages. Stony hills and slopes (3.79% of the Survey Area) provide important dispersal and foraging habitat, particularly when adjacent the mesas and breakaways. The tidal flats and claypans (5.82% of the Survey Area) provide important seasonal habitat for conservation significant waterbirds and shorebirds. The plains, stony plains, and sand dune habitats contain less microhabitat opportunities and provide less value to most conservation significant fauna taxa and overall fauna assemblages than the aforementioned habitats.

The drainage line/river/creek and mesas and breakaway habitats are moderately suitable for SRE invertebrates. The remainder of the fauna habitats within the Survey Area have a low suitability for SRE invertebrates.

Four conservation significant fauna taxa were recorded confirmed to use the Survey Area during the fauna surveys:

- Northern Quoll (*Dasyurus hallucatus*) – Endangered under the BC Act and EPBC Act. High density populations were recorded in the stony hills and slopes and the mesas and breakaway habitats within the Survey Area. A population of Northern Quolls uses mesas within the Survey Area.
- Ghost Bat (*Macroderma gigas*) – Vulnerable under the BC Act and EPBC Act. Records consistent with foraging, potential night roosting and possible day roosting were recorded within mesas and breakaways. No deep, complex caves suitable for maternity roosts were identified.
- Western Pebble-mound Mouse (*Pseudomys chapmani*) – Priority 4 under the BC Act. A recently active mound was recorded on the boundary of the Survey Area in stony hills and slopes habitat.
- Pilbara Leaf-nosed Bat (*Rhinoicteris aurantia* Pilbara form) – Vulnerable under the BC Act and EPBC Act. Records consistent with foraging were recorded within or adjacent to mesas and breakaways. These records were consistent with known roost sites outside the Survey Area. No roosting was recorded within the Survey Area.

A fifth conservation significant fauna taxon, the Pilbara Olive Python (*Liasis olivaceus barroni*), listed as Vulnerable under the *Biodiversity Conservation Act 2016* and the *Environment Protection Biodiversity and Conservation Act 1999*, was opportunistically recorded approximately 20 km south of the Survey Area. The taxon is therefore likely to occur within the



Survey Area, where it will use drainage line/river/creek habitats and mesas and breakaway habitats but is most likely widely distributed in the region.

Two likely SRE taxa (taxa known to have closely related taxa that show evidence of short-range endemism) were recorded at single locations within the Survey Area:

- One Philosciid isopod *Philosciidae* sp. indet. 'Onslow', found in plains habitat.
- One Polydesmid millipede *Antichiropus?* Juvenile, found in minor drainage line/river/creek habitat.

Four possible SRE taxa (primarily due to the groups being considered data deficient) were recorded within the Survey Area:

- One armadillid isopod *Buddelundia* sp. '35/36', found in minor drainage line/river/creek, Mulga woodland, and stony plain habitat.
- One centipede *Cryptops* sp. 'Onslow', found in minor drainage line/river/creek, stony hills and slopes, and stony plain habitat.
- Two Oligiid pseudoscorpions *Beierolpium* sp., and *Indolpium* sp., found in mesas and breakaways and stony plain habitat, and stony plain, tidal flats, and stony hills and slopes habitat respectively.

## Table of Abbreviations

| Abbreviation       | Description   |
|--------------------|---|
| 360 Environmental  | 360 Environmental Pty Ltd   |
| AIP                | Ashburton Infrastructure Project  |
| ARU                | Autonomous Recording Unit   |
| BC Act             | <i>Biodiversity Conservation Act 2016</i>   |
| BoM                | Bureau of Meteorology   |
| CD                 | Conservation Dependent Fauna  |
| CR                 | Critically Endangered   |
| DAWE               | Department of Agriculture, Water, and the Environment   |
| DBCA               | Department of Biodiversity, Conservation and Attractions  |
| EIA                | Environmental Impact Assessment   |
| EN                 | Endangered  |
| EP Act             | <i>Environmental Protection Act 1986</i>  |
| EPA                | Environmental Protection Authority  |
| EPBC Act           | <i>Environment Protection Biodiversity and Conservation Act 1999</i>  |
| Extrapolation Area | A section of the Survey Area that could not be accessed and has been extrapolated to provide indicative fauna habitat mapping |
| GIS                | Geographic Information System   |
| ha                 | Hectare   |
| IBRA               | Interim Biogeographic Regionalisation for Australia   |
| IBSA               | Index of Biodiversity Surveys for Assessments   |
| km                 | Kilometres  |
| m                  | Metres  |
| mm                 | millimetres   |
| MA                 | Marine  |
| MI                 | Migratory   |
| MRL                | Mineral Resources Limited   |
| OS                 | Other Specially Protected Fauna   |
| P                  | Priority  |
| PPA                | Pilbara Ports Authority   |
| PEC                | Priority Ecological Community   |
| PMST               | Protected Matters Search Tool   |
| SRE                | Short Range Endemic   |
| Survey Area        | The AIP proposed haul road alignment and buffer, and associated borrow pit areas totalling approximately 30,238 ha            |
| TEC                | Threatened Ecological Community   |
| VU                 | Vulnerable  |

| Abbreviation | Description       |
|--------------|-------------------|
| WA           | Western Australia |



Short-tailed Pygmy Monitor (*Varanus brevicauda*)

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# 1 Introduction

## 1.1 The Project

Mineral Resources Limited (MRL) commissioned 360 Environmental Pty Ltd (360 Environmental) to undertake a terrestrial vertebrate and Short-Range Endemic (SRE) invertebrate fauna assessment to support the development of the Ashburton Infrastructure Project (AIP). The AIP Haul Road involves developing a fully sealed private haul road that will begin at the boundary of the approved Buckland mine (Bungaroo South), about 45 km southwest of Pannawonica, and continue for approximately 150 km westward towards Onslow. The Survey Area is approximately 30,238 ha and comprises the proposed haul road alignment and associated buffer (approximately 250 m), supporting infrastructure areas such as the borrow pits, and a small area adjacent Wheatstone LNG (the Pilbara Ports Authority (PPA) area) (Figure 1).

A 6,663 ha section of the Survey Area was included in the desktop assessment but could not be assessed during field surveys due to access limitations. Fauna habitat mapping has been extrapolated over a 3,418 ha portion of the area that could not be assessed (referred to as the Extrapolation Area) to provide indicative fauna habitat mapping. Additional surveys will be undertaken in this area in future, the outcomes of which will be documented in a separate report.

## 1.2 Scope and Objectives

The purpose of the terrestrial vertebrate and SRE invertebrate fauna assessment was to inform the Environmental Impact Assessment (EIA) process by undertaking surveys as per the relevant Technical Guidance (Environmental Protection Authority, 2016, 2020) and to provide baseline information for supporting documents as part of the approvals process required to develop the Project.

The specific objectives of the assessment were to:

- Undertake a desktop assessment including relevant database searches and a literature review to compile and summarise existing records of fauna within the vicinity of the Survey Area.
- Undertake a basic terrestrial vertebrate fauna survey during June 2020.
- Undertake a single season detailed terrestrial vertebrate fauna survey during November 2020 and an infill detailed terrestrial vertebrate fauna survey during April 2021 using a variety of fauna detection methods including cage traps, pitfall traps, funnel traps, camera traps, autonomous recording units (ARUs), active searching and opportunistic observations.
- Undertake targeted conservation significant vertebrate fauna surveys in April 2021 and June 2021 with a focus on Northern Quolls, Pilbara Leaf-nosed Bats, Ghost Bats and Pilbara Olive Pythons.
- Compile an inventory of terrestrial vertebrate fauna based on the results of the desktop assessment and field surveys.



- Undertake a dual season SRE assessment comprising dry pitfall trapping in October 2020 (dry season) and active searching and leaf litter sampling in June 2021 (post-wet season, immediately after a rainfall event). Troglifauna and stygofauna are outside the scope of this assessment.
- Extract, sort and identify potential SRE invertebrate specimens.
- Define and delineate the main fauna habitats present within the Survey Area.
- Extrapolate fauna habitat mapping to provide a map of indicative fauna habitats within the Extrapolation Area.
- Produce a combined fauna and SRE assessment report based on the findings of the above.
- Supply a geospatial data package prepared in accordance with IBSA requirements.

This report supersedes the interim report and presents the background, methods, results, discussion, and conclusions of the terrestrial vertebrate fauna and SRE surveys undertaken to support the above objectives.



**Legend**

- Local Roads
- Weather Stations
- Survey Area

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS  
 - LOCALITY MAP SOURCED LANDGATE 2020  
 - OTHER DATA SOURCED LANDGATE 2020  
 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2020  
 (© Western Australian Land Information Authority 2020)

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0 5,000 10,000 15,000  
 Meters  
 1:650,000 @ A4

**LOCALITY MAP**

|  |               |                    |                |
|--|---------------|--------------------|----------------|
| PROJECT ID<br>4441 007                                 |               | DATE<br>26/08/2021 |                |
| HORIZONTAL DATUM AND PROJECTION<br>GDA2020 MGA Zone 50 |               |                    |                |
| CREATED<br>LFV   | CHECKED<br>EW | APPROVED<br>SW     | REVISION<br>03 |

**Mineral Resources Limited**  
**Ashburton Infrastructure Project**  
**Vertebrate Fauna and**  
**SRE Assessment**

**Figure 1**  
**Survey Area**

## 2 Background

### 2.1 Protection of Fauna

Western Australian fauna is formally protected by the following legislative measures:

- *WA Biodiversity Conservation Act 2016* (BC Act)
- *WA Environmental Protection Act 1986* (EP Act)
- *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

In addition to these legislative measures, the WA Department of Biodiversity, Conservation and Attractions (DBCA; formerly Department of Parks and Wildlife) priority fauna list provides a non-legislative list of possibly threatened, rare but not threatened or near threatened taxa.

In addition to these protection mechanisms, the EIA process is supported by various guidance documents published by the Environmental Protection Authority (EPA), DBCA and the Department of Agriculture Water and Environment (DAWE; formerly Department of Environment, and Department of Sustainability Environment Water Population and Communities).

#### Western Australia

- *Technical Guidance - Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment* (Environmental Protection Authority, 2020)
- *Technical Guidance - Sampling of short range endemic invertebrate fauna* (Environmental Protection Authority, 2016)
- *Interim guideline for preliminary surveys of Night Parrot (*Pezoporus occidentalis*) in Western Australia* (Department of Parks and Wildlife, 2017).

#### Commonwealth

- *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: Guidelines for detecting mammals listed as threatened under the EPBC Act* (Department of Sustainability Environment Population and Communities, 1999)
- *Survey guidelines for Australia's threatened birds: Guidelines for detecting birds listed as threatened under the EPBC Act* (Department of the Environment Water Heritage and the Arts, 2010)
- *Survey guidelines for Australia's threatened reptiles: Guidelines for detecting reptiles listed as threatened under the EPBC Act* (Department of Sustainability Environment Water Population and Communities, 2011)

- *Survey guidelines for Australia's threatened bats: Guidelines for detecting bats listed as threatened under the EPBC Act* (Department of the Environment Water Heritage and the Arts, 1999)
- *EPBC Act Policy Statement 3.21 - Industry guidelines for avoiding, assessing and mitigating impacts on EPBC Act listed migratory shorebird species* (Department of the Environment and Energy, 2017)
- *EPBC Act referral guideline for the endangered Northern Quoll *Dasyurus hallucatus** (Department of the Environment, 2016).

## 2.2 Existing Environment

### 2.2.1 Climate

Two Bureau of Meteorology (BoM) weather stations were consulted due to the size of the Survey Area. The closest long-term BoM weather stations with a complete dataset are Onslow Airport (Station 5017) and Pannawonica Station (Station 5069), located approximately 9 km north of the western end of the Survey Area and 45 km north of the eastern end of the Survey Area, respectively (Figure 1).

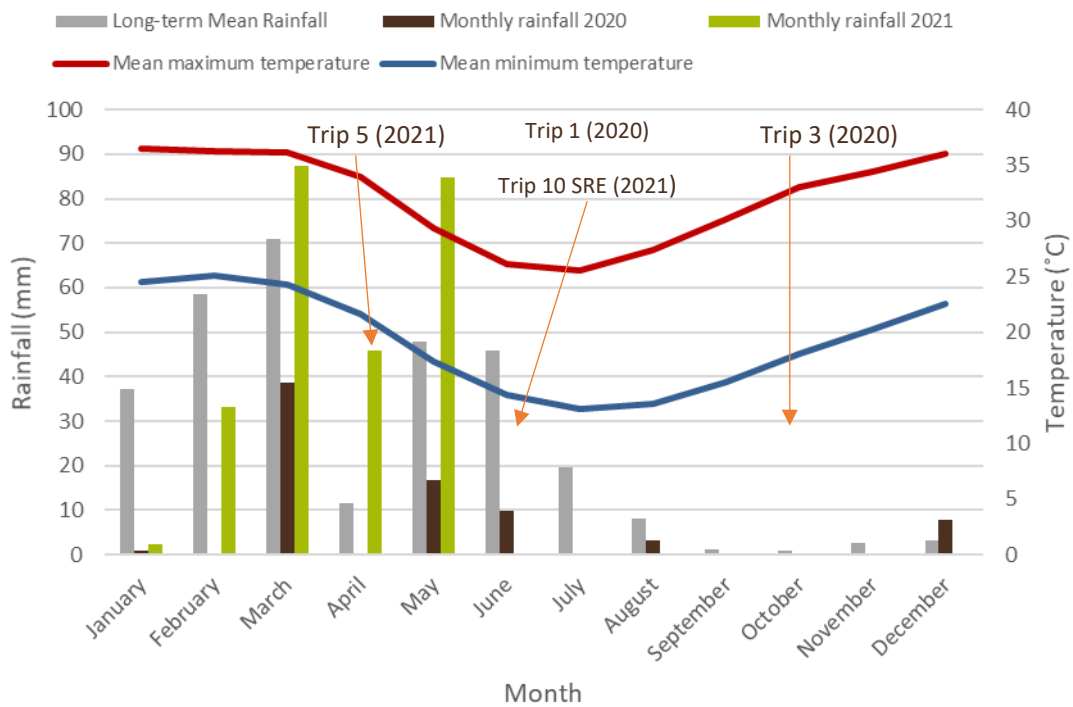
The long-term mean minimum temperature for Onslow Airport ranges from 13.1°C (July) to 25.1°C (February) (1940 to 2021) and the long-term mean maximum temperature ranges from 25.5°C (July) to 36.5°C (January) (Figure 2) (Bureau of Meteorology, 2021).

The long-term mean minimum temperature for Pannawonica ranges from 12.6°C (July) to 25.2°C (January and February) (1971 to 2021) and the long-term mean maximum temperature ranges from 26.7°C (July) to 41.0°C (January) (Figure 3) (Bureau of Meteorology, 2021).

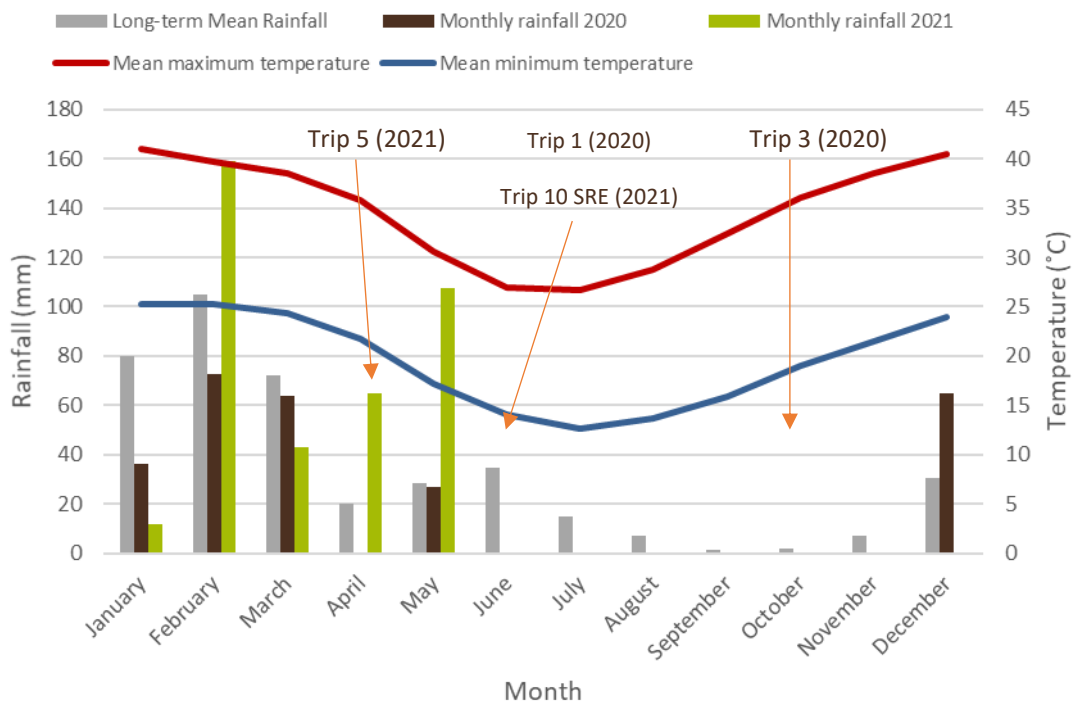
The long-term annual average rainfall for Onslow Airport is 307.7 mm (Bureau of Meteorology, 2021). In 2020, the Onslow Airport weather station recorded 77.4 mm of rainfall, which is 230.3 mm below the long-term average of 307.7 mm (Bureau of Meteorology, 2021). The station recorded 253.6 mm of rainfall in January to May 2021, which is 27.6 mm above the long-term average of 226.0 mm for the same period (Bureau of Meteorology, 2021).

The long-term annual average rainfall for Pannawonica is 403.1 mm (Bureau of Meteorology, 2021). In 2020, the Pannawonica weather station recorded 263.9 mm of rainfall, which is 139.2 mm below the long-term average of 403.1 mm (Bureau of Meteorology, 2021). The station recorded 386.6 mm of rainfall in January to May 2021, which is 80.9 mm above the long-term average of 305.7 mm for the same period (Bureau of Meteorology, 2021).





**Figure 2: Long term and monthly total rainfall, maximum and minimum temperatures for Onslow Airport Weather Station (Station 5017) (Bureau of Meteorology, 2021).**



**Figure 3: Long term and monthly total rainfall, maximum and minimum temperatures for Pannawonica Weather Station (Station 5069) (Bureau of Meteorology, 2021).**

## 2.2.2 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 extends across two IBRA bioregions and three IBRA subregions (Table 1; Figure 4). The majority of the Survey Area occurs within the Pilbara region.

**Table 1: IBRA regions and subregions within the Survey Area**

| IBRA Region | Subregion (code)   | Description  |
|-------------|--------------------|--|
| Carnarvon   | Cape Range (CAR01) | “The Carnarvon bioregion is composed of quaternary alluvial, aeolian and marine sediments overlying Cretaceous strata. A mosaic of saline alluvial plains with samphire and saltbush low shrublands, Bowgada 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. Limestone strata with <i>Acacia stuartii</i> or <i>A. bivenosa</i> shrubland outcrop in the north, where extensive tidal flats in sheltered embayments support mangal.” (Kendrick and Mau, 2002).   |
| Pilbara     | Hamersley (PIL03)  | “PIL3 is the Southern section of the Pilbara Craton. Mountainous area of Proterozoic sedimentary ranges and plateaux, dissected by gorges (basalt, shale, and dolerite). Mulga low woodland over bunch grasses on fine textured soils in valley floors, and <i>Eucalyptus leucophloia</i> over <i>Triodia brizoides</i> on skeletal soils of the ranges. The climate is Semi-desert tropical, average 300mm rainfall, usually in summer cyclonic or thunderstorm events. Winter rain is not uncommon. Drainage into either the Fortescue (to the north), the Ashburton to the south, or the Robe to the west. Subregional area is 6,215,092ha.” (Kendrick, 2001).  |
|             | Roebourne (PIL04)  | “Quaternary alluvial and older colluvial coastal and subcoastal plains with a grass savannah of mixed bunch and hummock grasses, and dwarf shrub steppe of <i>Acacia stellaticeps</i> or <i>A. pyrifolia</i> and <i>A. inaequilatera</i> . Uplands are dominated by <i>Triodia</i> hummock grasslands. Ephemeral drainage lines support <i>Eucalyptus victrix</i> or <i>Corymbia hamersleyana</i> woodlands. Samphire, <i>Sporobolus</i> and mangal occur on marine alluvial flats and river deltas. Resistant linear ranges of basalts occur across the coastal plains, with minor exposures of granite. Islands are either Quaternary sand accumulations, or composed of basalt or limestone, or combinations of any of these three. Climate is arid (semi-desert) tropical with highly variable rainfall, falling mainly in summer. Cyclonic activity is significant, with several systems affecting the coast and hinterland annually. Subregional area is 2,008,983ha.” (Kendrick and Stanley, 2001). |

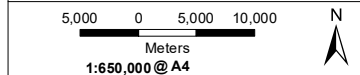


- Legend**
- Survey Area
  - Roads
  - IBRA Regions
- IBRA Subregions**
- Cape Range
  - Chichester
  - Hamersley
  - Roebourne

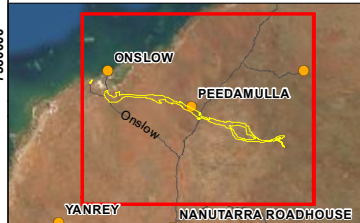
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**LOCALITY MAP**



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**HORIZONTAL DATUM AND PROJECTION**  
 GDA2020 MGA Zone 50

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**SRE Assessment**

**Figure 4**  
**IBRA Subregions**

### 2.2.3 Soil Landscapes and Land Systems

Soil landscapes and land system mapping of WA described 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 intercepts sixteen land systems (Table 2; Figure 5), including a small area of tidal flats near the coast, extending eastwards across sandy plains and stony plains, to inland hills at the eastern end.

**Table 2: Land systems within the Survey Area**

| Land System        |       | Description<br>(Department of Agriculture and Food WA, 2012)   |
|--------------------|-------|--|
| Name               | Code  |  |
| Cane System        | 202Cn | Alluvial plains and flood plains supporting snakewood shrublands, soft and hard spinifex grasslands and tussock grasslands.  |
| Capricorn System   | 296Cp | Rugged sandstone hills, ridges, stony footslopes and interfluves supporting low acacia shrublands or hard spinifex grasslands with scattered shrubs.                               |
| Dune System        | 201Du | Dune fields supporting soft spinifex and minor hard spinifex grasslands.   |
| Giralia System     | 203Gi | Sandy plains with linear dunes and broad sandy swales supporting hummock grasslands of hard and soft spinifex with scattered acacia shrubs.  |
| Houndstooth System | 296Ht | Rough shale hills, stony plains and broad drainage floors supporting hard spinifex grasslands and sparse shrubs.   |
| Littoral System    | 201Li | Bare coastal mudflats (unvegetated), samphire flats, sandy islands, coastal dunes, and beaches, supporting samphire low shrublands, sparse acacia shrublands and mangrove forests. |
| Nanutarra System   | 296Nn | Low mesas and hills of sedimentary rocks supporting soft and hard spinifex shrubby grasslands.   |
| Newman System      | 285Ne | Rugged jaspilite plateaux, ridges and mountains supporting hard spinifex grasslands.   |
| Onslow System      | 201On | Undulating sandplains, dunes and level clay plains supporting soft spinifex grasslands and minor tussock grasslands.   |
| Peedamulla System  | 202Pe | Gravelly plains supporting hard spinifex grasslands and minor snakewood shrublands.  |
| Robe System        | 296Ro | Low plateaux, mesas and buttes of limonite supporting soft spinifex and occasionally hard spinifex grasslands.   |
| Sherlock System    | 296Sk | Stony alluvial plains supporting snakewood shrublands with patchy tussock grasses and spinifex grasslands.   |
| Stuart System      | 296St | Gently undulating stony plains supporting hard and soft spinifex grasslands and snakewood shrublands.  |
| Tanpool System     | 202Tp | Stony plains and low ridges of sandstone and other sedimentary rocks supporting hard spinifex grasslands and snakewood shrublands.   |
| Uaroo System       | 202Ua | Broad sandy plains, pebbly plains and drainage tracts supporting hard and soft spinifex hummock grasslands with scattered acacia shrubs.   |



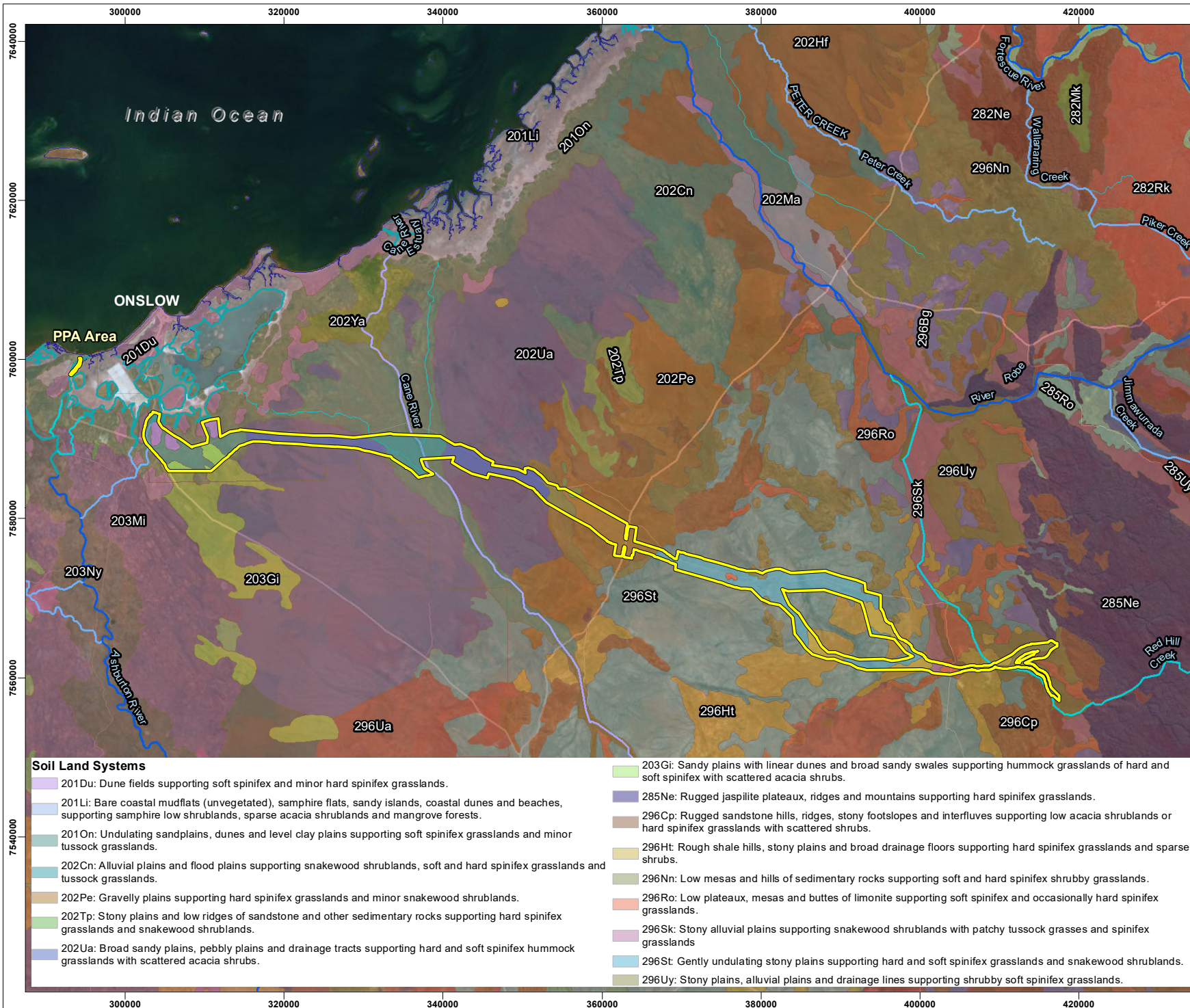
| Land System   |       | Description<br>(Department of Agriculture and Food WA, 2012)                                  |
|---------------|-------|---|
| Name          | Code  |   |
| Urandy System | 296Uy | Stony plains, alluvial plains and drainage lines supporting shrubby soft spinifex grasslands. |

#### 2.2.4 Hydrography

Hydrographic features intersecting and within the vicinity of the Survey Area have been identified using linear hydrography GIS data (Department of Water and Environmental Regulation, 2016). These features are described in Table 3 and shown in Figure 5.

**Table 3: Hydrographical features in the vicinity of the Survey Area**

| Hydrographical Feature            | Description  |
|-----------------------------------|--|
| Cane River                        | Major river flowing north-westerly from its source located west of the Hamersley Range, through the Cane River Conservation Park and the Onslow Coastal plain, before discharging into the Indian Ocean at Yardie Landing approximately 35 km northeast of Onslow.   |
| Red Hill Creek                    | Major tributary merging with Mungarathoona Creek and joining the Robe River. The Red Hill Creek is 37.9 km long, and its elevation varies from 215 m to 116 m over its length.   |
| Minor Tributary of the Cane River | A minor tributary that traverses the Survey Area and flows between the Cane River and the Onslow Estuarine Tidal Flat.   |
| Minor Tributary of the Cane River | A minor tributary that traverses the Survey Area. The minor tributary flows parallel to the Cane River before joining it.  |
| Significant Stream                | A significant stream that traverses the western end of the Survey Area and flows into the Onslow estuarine tidal flat.   |
| Onslow Estuarine Tidal Flat       | Estuarine tidal flat subject to tidal inundation.<br>The isolated north-western portion of the Survey Area, located within Pilbara Port Authority (PPA area) tenure is less than one kilometre south of the coastline within this hydrographic feature. Regular seasonal flooding is a natural part of the ecosystem in this location, triggered by the passage of tropical cyclones and storms within the region. |



### Legend

- Survey
- Roads

#### Hydrography

- Coastal Waterline
- Estuarine
- Mainstream
- Major River
- Minor River
- Significant Stream
- Major Tributary
- Minor Tributary

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

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|--|---------------|--------------------|----------------|
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| HORIZONTAL DATUM AND PROJECTION<br>GDA2020 MGA Zone 50 |               |                    |                |
| CREATED<br>LFV   | CHECKED<br>EW | APPROVED<br>SW     | REVISION<br>03 |

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**Figure 5**  
**Soil Land Systems and Hydrography**

#### Soil Land Systems

- 201Du: Dune fields supporting soft spinifex and minor hard spinifex grasslands.
- 201Li: Bare coastal mudflats (unvegetated), samphire flats, sandy islands, coastal dunes and beaches, supporting samphire low shrublands, sparse acacia shrublands and mangrove forests.
- 201On: Undulating sandplains, dunes and level clay plains supporting soft spinifex grasslands and minor tussock grasslands.
- 202Cn: Alluvial plains and flood plains supporting snakewood shrublands, soft and hard spinifex grasslands and tussock grasslands.
- 202Pe: Gravelly plains supporting hard spinifex grasslands and minor snakewood shrublands.
- 202Tp: Stony plains and low ridges of sandstone and other sedimentary rocks supporting hard spinifex grasslands and snakewood shrublands.
- 202Ua: Broad sandy plains, pebbly plains and drainage tracts supporting hard and soft spinifex hummock grasslands with scattered acacia shrubs.
- 203Gi: Sandy plains with linear dunes and broad sandy swales supporting hummock grasslands of hard and soft spinifex with scattered acacia shrubs.
- 285Ne: Rugged jaspilite plateaux, ridges and mountains supporting hard spinifex grasslands.
- 296Cp: Rugged sandstone hills, ridges, stony footslopes and interfluvial supporting low acacia shrublands or hard spinifex grasslands with scattered shrubs.
- 296Ht: Rough shale hills, stony plains and broad drainage floors supporting hard spinifex grasslands and sparse shrubs.
- 296Nn: Low mesas and hills of sedimentary rocks supporting soft and hard spinifex shrubby grasslands.
- 296Ro: Low plateaux, mesas and buttes of limonite supporting soft spinifex and occasionally hard spinifex grasslands.
- 296Sk: Stony alluvial plains supporting snakewood shrublands with patchy tussock grasses and spinifex grasslands.
- 296St: Gently undulating stony plains supporting hard and soft spinifex grasslands and snakewood shrublands.
- 296Uy: Stony plains, alluvial plains and drainage lines supporting shrubby soft spinifex grasslands.

### 2.2.5 Broad Vegetation Associations

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

Thirteen vegetation systems associations are mapped within the Survey Area (Table 4; Figure 6). Descriptions of these vegetation systems associations and their representation on a sub-regional scale are provided in Table 4.

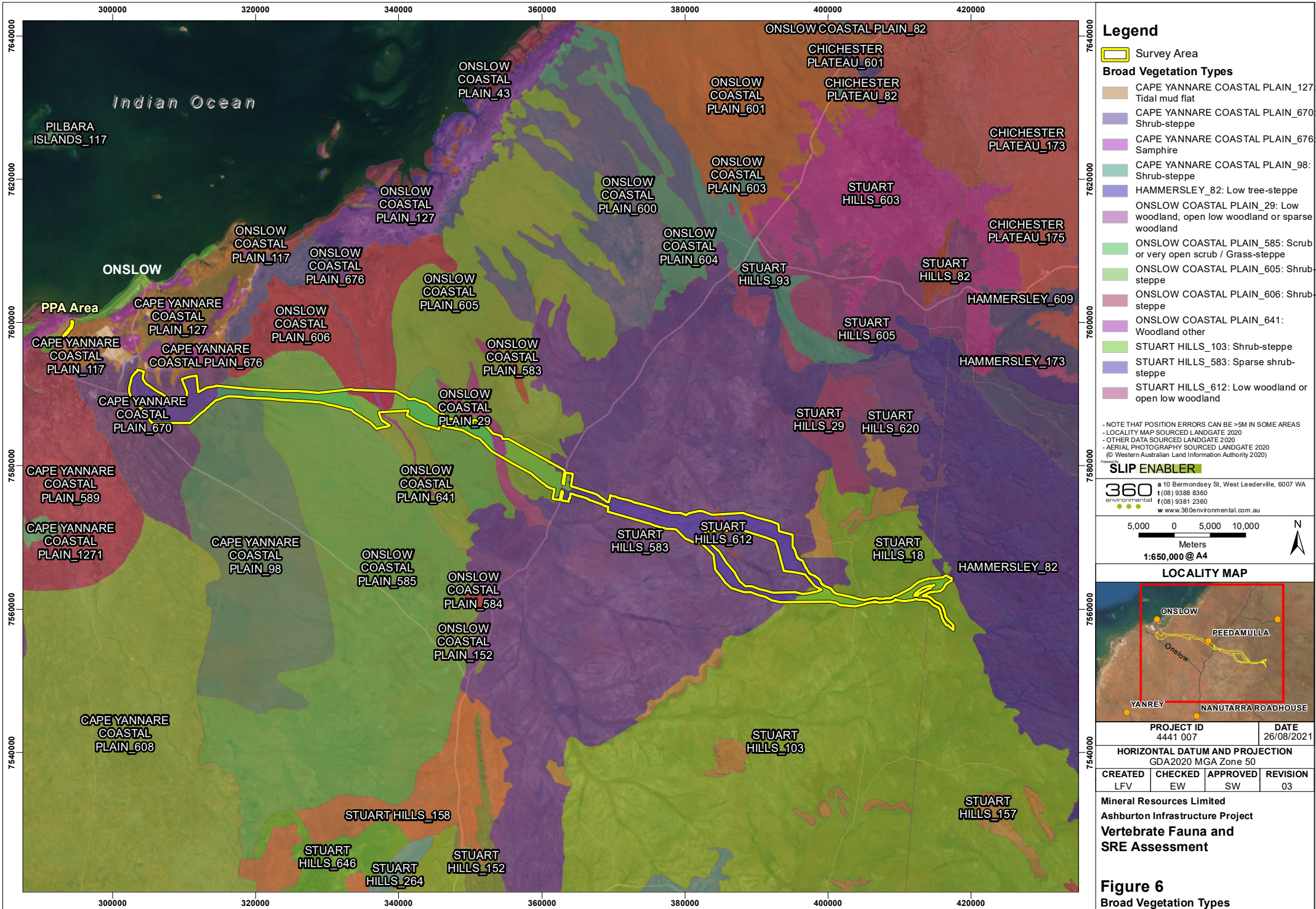
**Table 4: Representation of broad vegetation types within the relevant subregion (Department of Biodiversity Conservation and Attractions, 2019a)**

| System and Vegetation Association                              | Description   | Extent            |              |               |  |                         |
|--|---|-------------------|--------------|---------------|--|-------------------------|
|  |   | Pre-European (ha) | Current (ha) | Remaining (%) | Current Extent Managed in DBCA Lands (%) * | Within Survey Area (ha) |
| <b>Representation across the Cape Range (CAR01) sub-region</b> |   |                   |              |               |  |                         |
| Cape Yannare Coastal Plain 127                                 | Tidal mud flat  | 100,987.52        | 99,790.74    | 98.81         | 0.42                                       | 39.88                   |
| Cape Yannare Coastal Plain 670                                 | Shrub-steppe. Hummock grassland with scattered shrubs or mallee ( <i>Triodia</i> spp., <i>Acacia</i> spp., <i>Grevillea</i> spp., <i>Eucalyptus</i> spp.) | 147,808.61        | 147,792.06   | 99.99         | 11.67                                      | 4717.37                 |
| Cape Yannare Coastal Plain 98                                  | Shrub-steppe. Hummock grassland with scattered shrubs or mallee ( <i>Triodia</i> spp., <i>Acacia</i> spp., <i>Grevillea</i> spp., <i>Eucalyptus</i> spp.) | 221,820.23        | 221,812.78   | 100.00        | 25.04                                      | 831.31                  |
| Cape Yannare Coastal Plain 676                                 | Tecticornia spp. communities in saline areas  | 29,193.60         | 28,442.66    | 97.43         | 15.87                                      | 13.59                   |
| <b>Representation across the Hamersley (PIL03) sub-region</b>  |   |                   |              |               |  |                         |
| Hamersley 82   | Hummock grassland with scattered bloodwoods and snappy gum ( <i>Triodia</i> spp., <i>Corymbia dichromophloia</i> , <i>Eucalyptus leucophloia</i> )        | 2,177,573.90      | 2,165,224.21 | 99.43         | 13.57                                      | 3.40                    |
| Onslow Coastal Plain 605                                       | Shrub-steppe. Hummock grassland with scattered shrubs or mallee ( <i>Triodia</i> spp., <i>Acacia</i> spp., <i>Grevillea</i> spp., <i>Eucalyptus</i> spp.) | 26,057.99         | 26,057.99    | 100.00        | 0.01                                       | 4310.13                 |
| Stuart Hills 103   | Shrub-steppe. Hummock grassland with scattered shrubs or mallee ( <i>Triodia</i> spp., <i>Acacia</i> spp., <i>Grevillea</i> spp., <i>Eucalyptus</i> spp.) | 614,056.46        | 613,923.76   | 99.98         | 4.99                                       | 3094.31                 |
| Stuart Hills 583   | Sparse shrub-steppe. Hummock grassland with sparse shrubs ( <i>Triodia</i> spp., <i>Acacia</i> spp.)  | 240,724.25        | 240,724.25   | 100.00        | 41.16                                      | 10624.14                |

| System and Vegetation Association                             | Description  | Extent            |              |               |  |                         |
|---|--|-------------------|--------------|---------------|--|-------------------------|
|   |  | Pre-European (ha) | Current (ha) | Remaining (%) | Current Extent Managed in DBCA Lands (%) * | Within Survey Area (ha) |
| Stuart Hills 612  | Low woodland or open low woodland. Other acacia, banksia, peppermint, cypress pine, casuarina, York gum, <i>Acacia</i> spp., <i>Banksia</i> spp., <i>Agonis flexuosa</i> , <i>Callitris</i> spp., <i>Allocasuarina</i> spp., <i>Eucalyptus loxophleba</i> .                | 476.16            | 476.16       | 100.00        | N/A  | 186.76                  |
| <b>Representation across the Roebourne (PIL04) sub-region</b> |  |                   |              |               |  |                         |
| Onslow Coastal Plain 29                                       | Low woodland, open low woodland, or sparse woodland. Mulga ( <i>Acacia aneura</i> ) and associated species   | 5,235.61          | 5,235.61     | 100.00        | N/A  | 479.9                   |
| Onslow Coastal Plain 585                                      | Scrub or very open scrub / Grass-steppe  | 144,781.51        | 144,769.91   | 99.99         | 62.89                                      | 4870.21                 |
| Onslow Coastal Plain 606                                      | Shrub-steppe. Hummock grassland with scattered shrubs or mallee ( <i>Triodia</i> spp., <i>Acacia</i> spp., <i>Grevillea</i> spp., <i>Eucalyptus</i> spp.)  | 32,103.70         | 32,103.70    | 100.00        | N/A  | 936.80                  |
| Onslow Coastal Plain 641                                      | Woodland other. Wheatbelt; York gum, salmon gum etc. ( <i>Eucalyptus loxophleba</i> , <i>E. salmonophloia</i> ). Goldfields; gimlet, redwood etc. ( <i>E. salubris</i> , <i>E. oleosa</i> ). Riverine; rivergum ( <i>E. camaldulensis</i> ). Tropical; messmate, woolybush | 2,117.88          | 2,117.83     | 100.00        | 10.23                                      | 130.49                  |

\*As a portion of the current extent





## 2.2.6 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 (Western Australian Government, 2005). The Western Australian Government (2005) defines ESAs as:

- (a) A declared World Heritage property as defined in section 13 of the Environment Protection and Biodiversity Conservation Act 1999 of the Commonwealth
- (b) An area that is included on the Register of the National Estate, because of its natural heritage value, under the Australian Heritage Council Act 2003 of the Commonwealth
- (c) A defined wetland and the area within 50 m of the wetland
- (d) The area covered by vegetation within 50 m of rare flora, to the extent to which the vegetation is continuous with the vegetation in which the rare flora is located
- (e) The area covered by a threatened ecological community
- (f) A Bush Forever site listed in 'Bush Forever' Volumes 1 and 2 (2000), published by the Western Australia Planning Commission, except to the extent to which the site is approved to be developed by the Western Australia Planning Commission, as described in subclause (3)
- (g) The areas covered by the following policies:
  - (i) The Environmental Protection (Gnangara Mound Crown Land) Policy 1992
  - (ii) The Environmental Protection (Western Swamp Tortoise) Policy 2002.
- (h) The areas covered by the lakes to which the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 applies
- (i) Protected wetlands as defined in the Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998
- (j) Areas of fringing native vegetation in the policy area as defined in the Environmental Protection (Swan and Canning Rivers) Policy 1998.

No ESAs occur within the Survey Area (Figure 7). The nearest ESAs are:

- A series of offshore island, the closest being Ashburton Island, approximately 13 km north of the PPA portion of the Survey Area.
- A 96.9 km stretch of coastline on the eastern side of the Exmouth Gulf. The ESA is located approximately 30.0 km west of the western portion of the Survey Area, and 25.4 km southwest of the PPA portion of the Survey Area.
- A series of wetlands surrounding the Fortescue River, which are located approximately 97.8 km northeast of the eastern end of the Survey Area.
- A defined area north of Millstream Chichester National Park, which is located approximately 106.9 km northeast of the eastern end of the Survey Area.

- A defined area located 102.4 km south of the eastern end of the Survey Area.

### 2.2.7 Conservation Areas

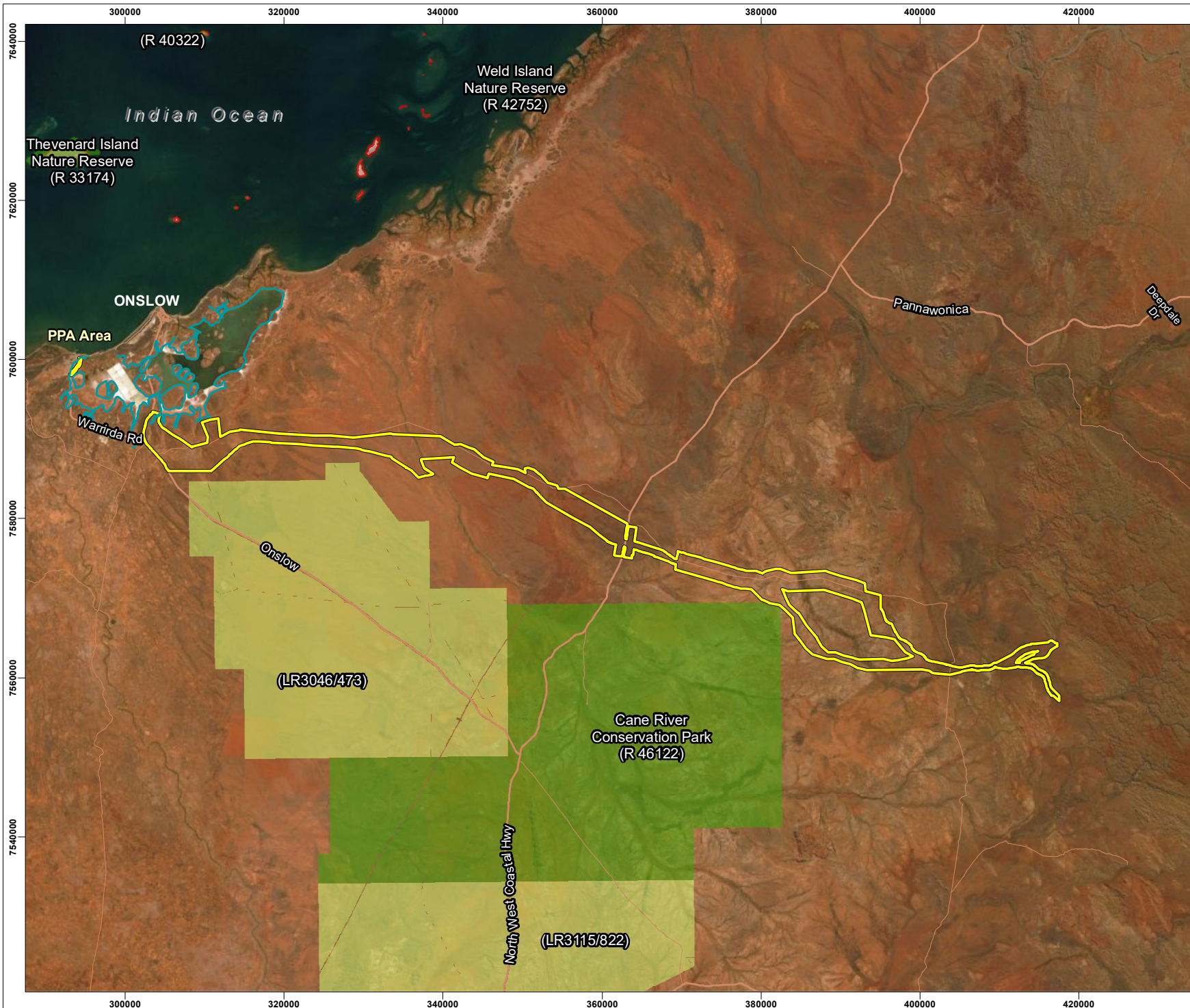
A small portion of the Survey Area (approximately 19 ha) overlaps the north-eastern portion of the Cane River Conservation Park, which is vested under the Conservation Commission of Western Australia (Figure 7).

Other conservation areas near the Survey Area are (Department of Biodiversity Conservation and Attractions, 2019):

- Unallocated Crown Land (LR3046/473), vested under the department of Planning, Lands and Heritage – located approximately 1 km south of the Survey Area
- Unallocated Crown Land (LR3115/822), vested under the department of Planning, Lands and Heritage – located approximately 40 km south of the Survey Area
- Barlee Range Nature Reserve (R 26808), vested under the Conservation Commission of Western Australia – located 104 km south of the Survey Area
- Millstream Chichester National Park (R 30071), vested under the Conservation Commission of Western Australia – located 98 km northeast of the eastern end of the Survey Area.

In addition, the Onslow estuarine tidal flat, which overlaps the northwestern portion of the Survey Area, is listed in the EPA Redbook as a Recommended Conservation Reserve.





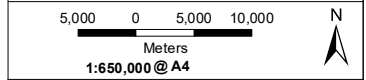
**Legend**

- Survey Area
- Roads
- Onslow Estuarine Tidal Flat
- Environmentally Sensitive Areas
- DBCA Managed Land
- Unallocated Crown Land

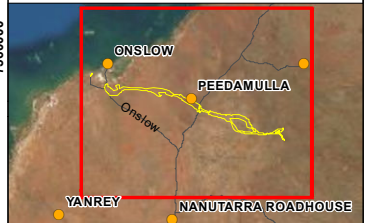
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|---|----------------------|---------------------------|-----------------------|
| <b>PROJECT ID</b><br>4441 007                                 |                      | <b>DATE</b><br>26/08/2021 |                       |
| <b>HORIZONTAL DATUM AND PROJECTION</b><br>GDA2020 MGA Zone 50 |                      |                           |                       |
| <b>CREATED</b><br>LFV   | <b>CHECKED</b><br>EW | <b>APPROVED</b><br>SW     | <b>REVISION</b><br>03 |

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**Ashburton Infrastructure Project**  
**Vertebrate Fauna and**  
**SRE Assessment**  
**Figure 7**  
**Conservation and**  
**Environmentally Sensitive Areas**

## 3 Methods

The basic and detailed terrestrial vertebrate fauna and SRE surveys documented within this report were undertaken in accordance with the *Technical Guidance - Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment* (Environmental Protection Authority, 2020) and the *Technical Guidance - Sampling of short range endemic invertebrate fauna* (Environmental Protection Authority, 2016) and with consideration for the relevant EPBC guidelines discussed within Section 2.1.

### 3.1 Desktop Assessment

#### 3.1.1 Literature Review

Background information regarding the existing environment within the Survey Area and surrounds was compiled prior to the field surveys (see Section 2.2). Previous studies were sourced from the EPA Consultation Hub, the Index of Biodiversity Surveys for Assessments (IBSA) website, internet search engine, or provided directly by MRL, were reviewed and summarised:

- *2011 Targeted Surveys for Populations of the Northern Quoll on the West Pilbara Iron Ore Project* (Rapallo Environmental, 2012b)
- *A Level 1 Vertebrate Fauna Assessment of the Proposed Tubridgi to Wheatstone Gas Pipeline, Western Australia* (Ninox Wildlife Consulting, 2011)
- *Annual Monitoring Survey of the WPIOP Stage 1 for API Management* (Rapallo Environmental, 2013)
- *Biological Assessment of the Conservation Focus Area for API Management* (Rapallo Environmental, 2012a)
- *Echolocation Survey of Bat Activity* (Bat Call WA, 2015)
- *Flora and vegetation survey and terrestrial fauna survey for the Pilbara Regional Waste Management Facility* (Phoenix Environmental Sciences, 2017)
- *Flora, Vegetation and Fauna Habitat Assessment at Bourne Highway* (Rio Tinto Iron Ore, 2018)
- *Pilbara Olive Python Reconnaissance Survey of the West Pilbara Iron Ore Project* (Rapallo Environmental, 2011)
- *Solomon Hub Vertebrate Fauna Assessment* (ecologia Environment, 2015)
- *West Pilbara Iron Ore Project Activity Assessment for Bats of Conservation Significance* (Astron Environmental Services, 2012)
- *West Pilbara Iron Ore Project Habitat Assessment for Terrestrial Fauna of National Environmental Significance* (Astron Environmental Services, 2011a)
- *West Pilbara Iron Ore Project MNES Fauna Species Habitat Assessment* (Biota Environmental Sciences, 2015a)

- *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)
- *West Pilbara Iron Ore Project Pilbara Leaf-nosed Bat Habitat Assessment* (Astron Environmental Services, 2011b)
- *West Pilbara Iron Ore Project Red Hill Creek Terrestrial Fauna Assessment: Phase 1* (Biota Environmental Sciences, 2015b)
- *West Pilbara Iron Ore Project Stage 1 Extension Terrestrial Fauna Assessment: Phase 1* (Biota Environmental Sciences, 2015c).

### 3.1.2 Database Searches

Database searches were undertaken to compile a list of potential fauna and identify potential conservation significant fauna within or surrounding the Survey Area (Table 5). The search area for each parameter was varied to reflect distances recommended by DBCA.

**Table 5: Database searches**

| Database Name   | Date Received | Search Area  |
|---|---------------|--|
| NatureMap (including Birdata) (Department of Biodiversity Conservation and Attractions, 2020a)              | 2 June 2020   | Search by line with a 20 km buffer (coordinates provided in Appendix A)  |
| Threatened and Priority Fauna Search (Department of Biodiversity Conservation and Attractions, 2020b)       | 27 May 2020   | 30 km buffer applied to the Survey Area polygon  |
| Protected Matters Search Tool (Department of Agriculture Water and the Environment, 2020)                   | 3 June 2020   | Search by line with a 50 km buffer (coordinates provided in Appendix A)  |
| WAM database search for Arachnids, Crustacea, and Molluscs (Western Australian Museum, 2021a, 2021c, 2021d) | March 2021    | 1,400,000 ha area bounded by the northwest corner (21.545137°S, 114.726345°E) and the southeast corner (22.256384°S, 116.539467°E) |

### 3.1.3 Conservation Significant Vertebrate Fauna Likelihood of Occurrence

Terrestrial vertebrate fauna taxa of conservation significance<sup>2</sup> identified by the database searches were assessed to determine their expected likelihood of occurrence within the Survey Area prior to the field surveys. The likelihood of occurrence for each taxon was then confirmed or revised post-field survey.

The assessment was completed based on the criteria presented in Table 6. Taxa recorded within the Survey Area or considered to have a high or medium likelihood of occurrence are discussed in detail. Taxa with a low likelihood of occurrence are not discussed unless justification for the classification is required.

---

<sup>2</sup> Species listed as Marine under the EPBC Act were not included as conservation significant as the Marine listing only applies within Commonwealth marine areas.



**Table 6: Vertebrate fauna likelihood of occurrence criteria**

| Likelihood       | Criteria   |
|------------------|--|
| <b>Confirmed</b> | Recorded during the field surveys.   |
| <b>High</b>      | Preferred habitat is present within the Survey Area, the Survey Area is within the taxon's known distribution, and the taxon has been recorded near the Survey Area in the last 15 years. The Survey Area and surrounding habitat is expected to support individuals or populations of the taxon.  |
| <b>Medium</b>    | The high likelihood of occurrence criteria has not been met, however suitable (not necessarily preferred) habitat occurs within the Survey Area and the Survey Area is within or near the taxon's known distribution. The Survey Area and surrounding habitat may support individuals or populations of the taxon.   |
| <b>Low</b>       | No suitable habitat is present within the Survey Area, or the Survey Area is well outside the taxon's known distribution, or the taxon is considered locally or regionally extinct. The Survey Area and surrounding habitat are unlikely to support individuals or populations of the taxon, however individuals may rarely occur as transients or vagrants. |

### 3.1.4 SRE Invertebrate Fauna Likelihood of Occurrence

Based on the analysis of all available information, potential SRE invertebrate taxa were assigned a level of likelihood to be present within habitats contained in the Survey Area. In the absence of universally recognised criteria, these criteria have been developed by highly experienced SRE practitioner Dr Timothy Moulds from Invertebrate Solutions Pty Ltd (Invertebrate Solutions). These levels of likelihood are described in Table 7.

**Table 7: SRE taxa likelihood of occurrence criteria**

| Likelihood | Definition  |
|------------|---|
| Definite   | The taxon is confirmed to occur within the Survey Area.   |
| High       | Habitat for the taxon is known to occur within the Survey Area and known records of the taxon are within 20 km.   |
| Moderate   | Habitat for the taxon is known to occur within the Survey Area and known records of the taxon are within 50 km.   |
| Low        | The taxon has been recorded from within 50 km, however, no habitat is present for the taxon within the Survey Area.   |
| Very low   | No habitat exists for the taxon within the Survey Area and no records of the taxon are within 50 km or the distribution of the taxon is known well enough to exclude its presence within the Survey Area. |

## 3.2 Field Surveys

A basic terrestrial vertebrate fauna survey was undertaken in June 2020 followed by detailed and targeted conservation significant terrestrial vertebrate fauna surveys, which were undertaken in October 2020, April 2021, and June 2021. Dry pitfall trapping for SRE taxa was undertaken in October 2020 in conjunction with the detailed terrestrial vertebrate fauna survey and a detailed SRE survey was undertaken in June 2021. This is outside the optimal time period for SRE surveys (Environmental Protection Authority, 2016), however a 68.8 mm rainfall event was recorded in the four days prior to the survey. Furthermore, active searching is effective

outside the optimal survey period because detection of SRE invertebrates does not depend on invertebrate activity levels. Table 8 outlines the scope and dates of the four relevant field trips<sup>3</sup>.

**Table 8: Field trip scope and schedule**

| Trip                       | Scope   | Date                 | Personnel  | Person Field Days |
|----------------------------|---|----------------------|--|-------------------|
| 1<br>(Vertebrate)          | Basic terrestrial vertebrate fauna survey, preliminary identification of potential trap sites and habitat descriptions.   | 5 – 15 June 2020     | Evan Webb<br>Lukas Geidans                             | 18                |
| 3<br>(Vertebrate and SRE)  | Baseline detailed terrestrial vertebrate fauna survey, comprehensive trapping program and active searches, SRE pitfall trapping.  | 7 – 20 October 2020  | Evan Webb<br>Lukas Geidans<br>Ed Swinhoe<br>Mike Brown | 48                |
| 5<br>(Vertebrate)          | Targeted conservation significant terrestrial vertebrate fauna survey and infill baseline detailed terrestrial vertebrate fauna survey, comprehensive trapping program and active searches. | 16 – 27 April 2021   | Evan Webb<br>Poppy Walker<br>Ed Swinhoe                | 30                |
| 10<br>(Vertebrate and SRE) | Infill targeted conservation significant terrestrial vertebrate fauna survey and active searches in additional Survey Area added to the Project April 2021.                                 | 31 May – 5 June 2021 | Evan Webb<br>Poppy Walker                              | 10                |
|                            | Detailed SRE survey. Active searches and habitat assessments.   | 3 – 9 June 2021      | Lukas Geidans<br>Dale Carter (MRL)                     | 12                |

### 3.2.1 Field Personnel

The fauna and SRE field surveys were undertaken by a team with a combined 39 years of experience conducting surveys of similar scope throughout WA, in particular the Pilbara region. Table 9 outlines the team members, their relevant experience conducting similarly scoped work and the relevant survey. The SRE field survey was supported by MRL representative, Dale Carter and SRE specimen identification and data curation was managed by Dr Timothy Moulds.

**Table 9: Field Team Members**

| Personnel      | Role             | Trips                      | Years of Experience |
|----------------|------------------|----------------------------|---------------------|
| Evan Webb      | Zoologist        | Trips 1, 3, 5 and 10       | 4 Years             |
| Lukas Geidans  | Ecologist        | Trips 1 and 3 and 10 (SRE) | 4 Years             |
| Edward Swinhoe | Senior Zoologist | Trips 3 and 5              | 15 Years            |
| Michael Brown  | Senior Zoologist | Trip 3 only                | 15 Years            |

<sup>3</sup> Field trips 2, 4, 6, 7, 8, and 9 were flora and vegetation surveys

| Personnel                | Role      | Trips          | Years of Experience |
|--------------------------|-----------|----------------|---------------------|
| Christina (Poppy) Walker | Zoologist | Trips 5 and 10 | 1 Year              |

### 3.2.2 Licence and Authorisation

Both the detailed terrestrial vertebrate fauna and the SRE invertebrate fauna survey were completed under Fauna Taking (Biological Assessment) Licence – Regulation 27 (BA27000324 and BA27000324-2) and an authorisation to take or disturb threatened species under Section 40 of the BC Act (TFA2020-0104 and TFA2020-0104-02) (Appendix B).

### 3.2.3 Weather Conditions

#### 3.2.3.1 Trip 3 – Baseline Detailed Fauna Survey

Weather conditions for the baseline detailed fauna survey (Trip 3) are presented in Table 10. Temperature data is from Mardie (Station 5008) and rainfall data is from Red Hill (Station 5022) (Bureau of Meteorology, 2021). Temperatures during the survey were similar to the long-term average minimum temperature (17.6°C) and maximum temperature (35.0°C) for October. A total of 0.0 mm of rainfall was recorded during October 2020, which is similar to the long-term average of 1.6 mm.

**Table 10: Baseline detailed fauna survey (Trip 3) weather conditions**

| Date       | Temperature (°C) |      | Rainfall (mm) |
|------------|------------------|------|---------------|
|            | Min              | Max  |               |
| 07/10/2020 | 12.0             | 29.1 | 0             |
| 08/10/2020 | 14.0             | 32.9 | 0             |
| 09/10/2020 | 13.0             | 29.7 | 0             |
| 10/10/2020 | 17.9             | 30.8 | 0             |
| 11/10/2020 | 19.4             | 33.3 | 0             |
| 12/10/2020 | 20.7             | 36.1 | 0             |
| 13/10/2020 | 19.9             | 39.8 | 0             |
| 14/10/2020 | 20.8             | 41.0 | 0             |
| 15/10/2020 | 22.3             | 39.4 | 0             |
| 16/10/2020 | 19.8             | 32.4 | 0             |
| 17/10/2020 | 18.6             | 28.8 | 0             |
| 18/10/2020 | 17.5             | 28.6 | 0             |
| 19/10/2020 | 17.7             | 29.0 | 0             |
| 20/10/2020 | 18.2             | 31.1 | 0             |

#### 3.2.3.2 Trip 5 – Targeted and Infill Baseline Detailed Fauna Survey

Weather conditions for the targeted and infill baseline detailed fauna survey (Trip 5) are presented in Table 11. Temperature data is from Mardie (Station 5008) and rainfall data is from

Red Hill (Station 5022) (Bureau of Meteorology, 2021). Temperatures during the survey were similar to the long-term average minimum temperature (21.2°C) and maximum temperature (35.9°C) for April. A total of 93.9 mm of rainfall was recorded during April 2021, which is above the long-term average of 21.9 mm.

**Table 11: Targeted and infill baseline detailed fauna survey (Trip 5) weather conditions**

| Date       | Temperature (°C) |      | Rainfall (mm) |
|------------|------------------|------|---------------|
|            | Min              | Max  |               |
| 16/04/2021 | 23.1             | 34.4 | 0             |
| 17/04/2021 | 22.2             | 35.9 | 0             |
| 18/04/2021 | 22.2             | 36.3 | 0             |
| 19/04/2021 | 21.6             | 34   | 0             |
| 20/04/2021 | 19.6             | 33.3 | 0             |
| 21/04/2021 | 20.1             | 33.5 | 0             |
| 22/04/2021 | 20.5             | 35.7 | 0             |
| 23/04/2021 | 18.4             | 35.6 | 0             |
| 24/04/2021 | 17               | 36.1 | 0             |
| 25/04/2021 | 19.2             | 36.3 | 0             |
| 26/04/2021 | 19.2             | 35.5 | 0             |
| 27/04/2021 | 17.7             | 35.7 | 0             |

### 3.2.3.3 Trip 10 – Infill Targeted Fauna Survey

Weather conditions for the infill targeted fauna survey (Trip 10) are presented in Table 12. Temperature data is from Mardie (Station 5008) and rainfall data is from Red Hill (Station 5022) (Bureau of Meteorology, 2021). Temperatures during the survey were similar to the long-term average minimum temperature (14.0°C) and maximum temperature (28.2°C) for June. A total of 16.2 mm of rainfall was recorded during June 2021, which is below the long-term average for June (36.7 mm). Above average rainfall was recorded in the month preceding the survey; a total of 129.4 mm of rainfall was recorded during May 2021, compared to the long-term average of 33.7 mm.

**Table 12: Infill targeted fauna survey (Trip 10) weather conditions**

| Date       | Temperature (°C) |      | Rainfall (mm) |
|------------|------------------|------|---------------|
|            | Min              | Max  |               |
| 31/05/2021 | 15.8             | 26.6 | 0             |
| 01/06/2021 | 13.4             | 28.8 | 0             |
| 02/06/2021 | 17.2             | 23.6 | 0             |
| 03/06/2021 | 17.3             | 23.2 | 0             |
| 04/06/2021 | 16.9             | 24.1 | 1             |
| 05/06/2021 | 15.2             | 28.8 | 0             |

### 3.2.3.4 Trip 10 – SRE Survey

Weather conditions for the SRE survey are presented in Table 13. Temperature data is from Mardie (Station 5008) and rainfall data is from Red Hill (Station 5022) (Bureau of Meteorology, 2021). Temperatures during the survey were similar to the long-term average minimum temperature (14.0°C) and maximum temperature (28.2°C) for June. A total of 16.2 mm of rainfall was recorded during June 2021, which is below the long-term average for June (36.7 mm). Above average rainfall was recorded in the month preceding the survey; a total of 129.4 mm of rainfall was recorded during May 2021, compared to the long-term average of 33.7 mm.

**Table 13: SRE survey (Trip 10) weather conditions**

| Date       | Temperature (°C) |      | Rainfall (mm) |
|------------|------------------|------|---------------|
|            | Min              | Max  |               |
| 03/06/2021 | 17.3             | 23.2 | 0             |
| 04/06/2021 | 16.9             | 24.1 | 1             |
| 05/06/2021 | 15.2             | 28.8 | 0             |
| 06/06/2021 | 19.1             | 28.2 | 0             |
| 07/06/2021 | 20.2             | 30.4 | 0             |
| 08/06/2021 | 20.6             | 29   | 0             |
| 09/06/2021 | 22.4             | 25.6 | 0             |

### 3.2.4 Vertebrate Fauna

#### 3.2.4.1 Fauna Habitat

Fauna habitat assessments were undertaken throughout the Survey Area to identify fauna habitat (Figure 9). The following information, which has been adapted from the habitat attributes listed in the Technical Guidance (Environmental Protection Authority, 2020), was collected at each habitat assessment site using Fulcrum, a mobile data collection app:

- Site photo
- Landform
- Soil type and colour
- Rock types, surface stone cover and size classes
- 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.

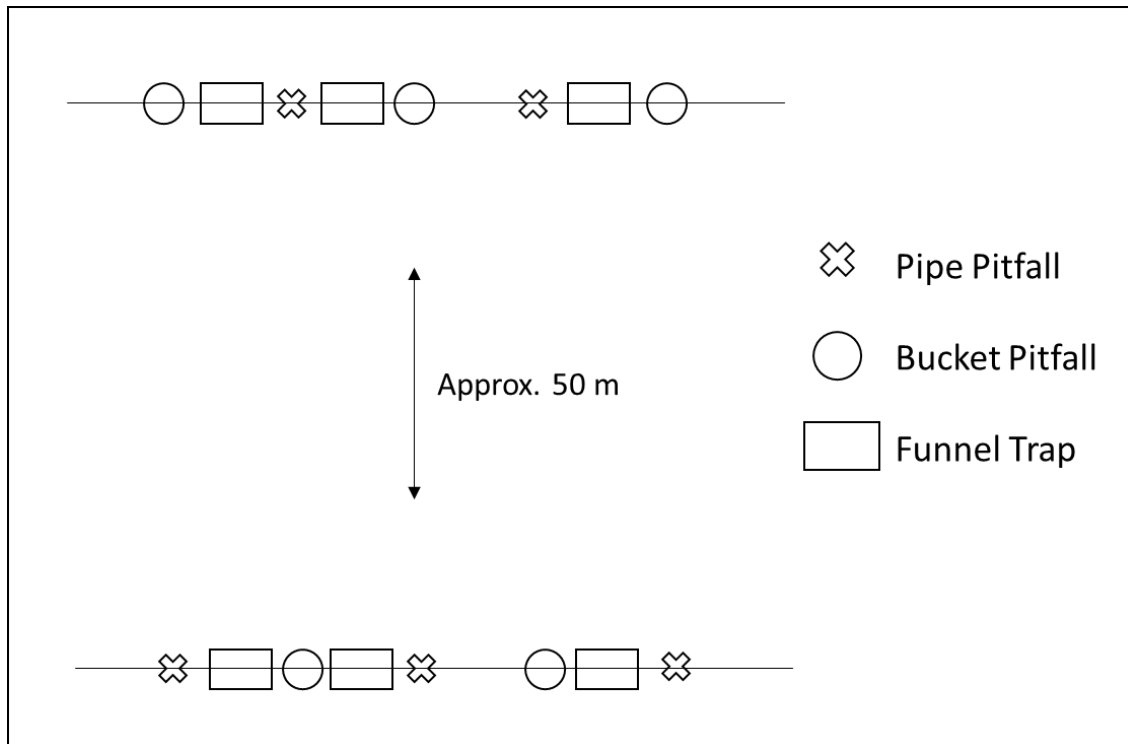
Fauna habitat mapping boundaries were delineated over aerial photography at a scale of 1:5,000 based on field observations, fauna habitat assessment data and vegetation mapping undertaken by 360 Environmental. Polygons were digitised and produced as electronic mapping data using GIS software.



### 3.2.4.2 Baseline Trap Sites

Eleven trap sites were installed in the Survey Area within areas of suitable and representative habitat. All trap sites occur within the Survey Area except for site KBB09, which is just outside the current Survey Area boundary following adjustments that were made following trip 3. Each trap site consisted of two trap lines spaced roughly 50 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 attached to the drift fence in pairs. Elliott traps were omitted from trap sites during trip 3 due to high temperatures and animal welfare considerations, however ten small Elliott aluminium box traps were set at trap sites KBB11 and KBB12 during trip 5. Elliott traps were positioned adjacent the pitfall trap line, each approximately 10 m away from each pitfall trap. Table 14 shows the total trapping effort for each trap site. Trap sites were numbered in the order in which they were set up. Trap site locations are shown in Figure 9.

A diagram of the trap site layout is provided in Figure 8.



**Figure 8: Baseline Trap Site Layout**

**Table 14: Baseline trap site trapping effort**

| Fauna Habitat   | Site Name | Trip <sup>4</sup> | Number of Nights Open | Total Pitfall Trap Nights | Total Funnel Trap Nights <sup>5</sup> | Total Small Elliott Trap Nights |
|---|-----------|-------------------|-----------------------|---------------------------|---------------------------------------|---------------------------------|
| Sand dunes and swales   | KBB01     | 3                 | 11                    | 110                       | 96                                    | 0                               |
| Tidal flats   | KBB02     | 3                 | 11                    | 110                       | 96                                    | 0                               |
| Plain   | KBB03     | 3                 | 11                    | 110                       | 96                                    | 0                               |
| Mulga woodland  | KBB04     | 3                 | 11                    | 110                       | 84                                    | 0                               |
| Stony plain   | KBB05     | 3                 | 10                    | 100                       | 96                                    | 0                               |
| Stony hills and slopes (adjacent mesas and breakaways)                    | KBB06     | 3                 | 10                    | 100                       | 96                                    | 0                               |
| Stony hills and slopes (adjacent mesas and breakaways)                    | KBB08     | 3                 | 9                     | 90                        | 120                                   | 0                               |
| Drainage line/creek/river (minor)   | KBB09     | 3                 | 9                     | 90                        | 84                                    | 0                               |
| Drainage line/creek/river (Major)   | KBB10     | 3                 | 8                     | 80                        | 84                                    | 0                               |
| Stony plain (adjacent drainage line/creek/river and mesas and breakaways) | KBB11     | 5                 | 7                     | 70                        | 84                                    | 70                              |
| Drainage line/creek/river (Minor)   | KBB12     | 5                 | 7                     | 70                        | 84                                    | 70                              |
| <b>Total</b>  |           |                   | <b>104</b>            | <b>1,040</b>              | <b>1,020</b>                          | <b>140</b>                      |

### 3.2.4.3 Baseline Camera Trapping

Motion sensitive camera traps were deployed during the trip 3 detailed field survey as part of the baseline fauna survey. Cameras were baited with universal bait (rolled oats and peanut butter) and sardines. Table 15 shows the trapping effort for baseline camera traps, and locations are shown in Figure 9.

<sup>4</sup> Trip 3 – October 2020, Trip 5 – April 2021

<sup>5</sup> Funnel traps were not always set up on the same day as the pitfall traps

**Table 15: Baseline camera trapping effort**

| Fauna Habitat                     | Nearest Trap Site | Number of Camera Traps | Total Camera Trap Days and Nights |
|-----------------------------------|-------------------|------------------------|-----------------------------------|
| Tidal flats                       | KBB02             | 1                      | 7                                 |
| Plain                             | KBB03             | 1                      | 7                                 |
| Mulga woodland                    | KBB04             | 1                      | 7                                 |
| Stony plain                       | KBB05             | 2                      | 16                                |
| Drainage line/river/creek (Major) | KBB10             | 2                      | 14                                |
| <b>Total</b>                      |                   | <b>7</b>               | <b>51</b>                         |

#### 3.2.4.4 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. Untimed active searches were undertaken opportunistically in microhabitats likely to contain fauna, involving raking of leaf litter, peeling bark, and splitting dead wood.

#### 3.2.4.5 Bird Surveys

Where possible, unbounded bird surveys were undertaken at each habitat assessment and trap site for a minimum duration of 10 minutes. One habitat assessment, KBH33, was accessed by helicopter without powering down, therefore a bird survey was not undertaken.

#### 3.2.4.6 Nocturnal Spotlighting

One night of spotlighting was undertaken. The spotlighting was undertaken from a vehicle and involved driving at a slow pace from Onslow to Ken's Bore via Onslow-Peedamulla Road and Red Hill Road.

#### 3.2.4.7 Identification and Taxonomy

Terrestrial vertebrate fauna taxa were identified in the field and released on site. Taxonomy and nomenclature in this report follows the WA Museum checklist 2021 (Western Australian Museum, 2021b) where relevant.

#### 3.2.4.8 Targeted Northern Quoll Trap Sites

Three cage trap sites (KBT01 - KBT03) were installed in preferred Northern Quoll (*Dasyurus hallucatus*) habitat during trip 3. Each trap line consisted of eight Sheffield wire cage traps spaced 10 – 20 m apart. KBT01 occurs just outside the current Survey Area boundary and KBT03 extends partially outside the current Survey Area boundary due to minor changes made to the Survey Area following trip 3. Traps were closed each morning and reopened in the evening. The traps were covered with hessian bags and baited with universal bait and sardines which was replenished as necessary. Two camera traps baited with universal bait and sardines were deployed at each of the three cage trap sites during trip 3.

Lines of camera traps were used to target Northern Quolls at sites KBT02 – KBT05 during trips 5 and 10. Each trap line consisted of camera traps, baited with universal bait and sardines or sardines on their own, spaced approximately 100 m apart along linear Northern Quoll habitat.

KBT01 was excluded from trips 5 and 10 as it was no longer within the current Survey Area boundary due to minor changes following trip 3.

Spot pattern analysis was undertaken following trips 5 and 10. The unique spot patterns of Northern Quolls captured by camera trap at sites KBT02 – KBT05 were analysed to quantify the number of individuals detected at each site.

Table 16 shows the total trapping effort for targeted Northern Quoll trap sites, and locations are shown in Figure 9.

**Table 16: Targeted Northern Quoll trapping effort**

| Fauna Habitat   | Site Name | Trip <sup>6</sup> | Number of Cages | Total Cage Trap Nights | Number of Camera Traps | Total Camera Trap Days and Nights |
|---|-----------|-------------------|-----------------|------------------------|------------------------|-----------------------------------|
| Drainage line/creek/river (minor) (adjacent mesas and breakaways) | KBT01     | 3                 | 8               | 56                     | 2                      | 16                                |
| Mesas and breakaways  | KBT02     | 3, 5, 10          | 8               | 56                     | 9                      | 42                                |
| Mesas and breakaways  | KBT03     | 3, 5              | 8               | 56                     | 7                      | 31                                |
| Mesas and breakaways  | KBT04     | 5                 | 0               | 0                      | 5                      | 20                                |
| Mesas and breakaways  | KBT05     | 5, 10             | 0               | 0                      | 19                     | 44                                |
| <b>Total</b>  |           |                   | <b>21</b>       | <b>168</b>             | <b>42</b>              | <b>153</b>                        |

#### 3.2.4.9 Acoustic Bat Surveys

Song Meter SM4BAT ultrasonic autonomous recording units (ARUs) were used to target bats during trips 3, 5 and 10. During trip 5, ultrasonic ARUs were located near trap sites or areas easily accessed by road and were moved periodically around the Survey Area. During trips 5 and 10, ultrasonic ARUs were deployed near habitat likely to be used by bats, such as water sources or rocky areas that contain caves or rocky overhangs, for a minimum of four nights at each location. Data captured by ARUs was analysed by Robert Bullen from Bat Call WA.

Table 17 shows the total survey effort for ultrasonic ARUs, and locations are shown in Figure 9.

**Table 17: Ultrasonic call ARU trapping effort**

| Fauna Habitat   | Nearest Trap Site       | Trip | Ultrasonic ARU Recording Nights |
|---|-------------------------|------|---------------------------------|
| Sand dunes and swales   | KBB01                   | 3    | 1                               |
| Plain (cattle watering hole)  | Between KBB04 and KBB10 | 3    | 3                               |
| Stony plain   | KBB05                   | 3    | 1                               |
| Drainage line/river/creek (major)   | KBB10                   | 3    | 3                               |
| Stony plain (adjacent drainage line/creek/river and mesas and breakaways) | KBB11                   | 5    | 4                               |

<sup>6</sup>Trip 3 – October 2020, Trip 5 – April 2021, Trip 10 – June 2021

| Fauna Habitat                                       | Nearest Trap Site | Trip     | Ultrasonic ARU Recording Nights |
|---|-------------------|----------|---------------------------------|
| Drainage line/river/creek (minor)                   | KBT01             | 3        | 3                               |
| Mesas and breakaways                                | KBT02             | 3, 5, 10 | 13                              |
| Mesas and breakaways                                | KBT03             | 3, 5     | 7                               |
| Mesas and breakaways                                | KBT04             | 5        | 4                               |
| Mesas and breakaways                                | KBT05             | 10       | 12                              |
| Drainage line/river/creek (minor) (with open water) | East of KBT05     | 10       | 4                               |
| <b>Total</b>  |                   |          | <b>55</b>                       |

#### 3.2.4.10 Acoustic Night Parrot Surveys

Song Meter SM4 acoustic ARUs were used to target the Night Parrot (*Pezoporus occidentalis*). Acoustic ARUs were placed in habitats that have potential to be used by Night Parrot, such as water sources or old growth spinifex. Acoustic ARUs were positioned within the Survey Area except for one acoustic ARU which was positioned 9 km southeast of the Survey Area at a nearby open water source, as there were limited water sources within the Survey Area at the time. Data captured by ARUs were analysed by Robert Bullen from Bat Call WA.

Table 18 shows the total survey effort for acoustic ARUs, and locations are shown in Figure 9.

**Table 18: Audible call ARU trapping effort**

| Fauna Habitat                                       | Nearest Trap Site  | Trip | Audible ARU Recording Nights |
|---|--------------------|------|------------------------------|
| Tidal flats (inundated claypan)                     | Southwest of KBB01 | 5    | 5                            |
| Plain (cattle watering hole)                        | KBB04 and KBB10    | 3    | 3                            |
| Stony Plain   | KBB05              | 3    | 8                            |
| Stony hills and slopes                              | KBB06              | 3    | 1                            |
| Stony Plain   | KBB08              | 3    | 1                            |
| Drainage line/river/creek (minor) (with open water) | Southeast of KBB09 | 3    | 2                            |
| Drainage line/river/creek (major)                   | KBB10              | 3    | 7                            |
| Stony plain   | KBB11              | 5    | 6                            |
| Drainage line/river/creek (minor)                   | KBT01              | 3    | 3                            |
| <b>Total</b>  |                    |      | <b>36</b>                    |

#### 3.2.4.11 Targeted Active Searches

Targeted active searches were undertaken at targeted trap sites KBT02 – KBT05 and baseline trap site KBB10 for a minimum duration of two person hours. These searches targeted evidence of conservation significant fauna such as scat, sloughed skin, remains, evidence of roosting in caves or overhangs, raking of leaf litter, peeling bark, and splitting dead wood.

### 3.2.5 SRE Invertebrate Fauna

A dual season SRE invertebrate fauna assessment was undertaken within the Survey Area in October 2020 (dry pitfall trapping) and June 2021 (active searching and leaf litter sampling). This comprised 30 sites throughout the Survey Area that were actively sampled for SRE invertebrates including leaf litter sifting and hand searching of appropriate microhabitats and 10 pitfall trap sites (KBB01-KBB10). Sites were chosen to maximise SRE habitat including south-facing slopes, gullies, rocky outcrops, dense patches of trees and permanent water bodies.

Locations of the SRE sampling sites are shown in Figure 9.

#### 3.2.5.1 Active Searches

Active searching was undertaken at 30 sites within the Survey Area, focussing on areas more likely to contain SRE fauna. Active searching consisted of sifting of soil and/or leaf litter from suitable habitat areas within each site (millipedes and land snails); the raking of leaf litter (millipedes, land snails, centipedes, mygalomorph burrows); examination of vegetative material below logs and bark (pseudoscorpions, centipedes, millipedes), and an examination of (if present) areas of rock outcrops and associated rock piles.

A minimum of one-person hour of active searching was undertaken at each site.

#### 3.2.5.2 Leaf Litter Collection

Leaf litter was collected from each site surveyed and processed in Tullgren funnels for potential SRE fauna. Approximately 3 L of leaf litter was collected from each site and stored in sealed ziplock bags.

#### 3.2.5.3 Pitfall traps

Dry pitfall trapping for SRE invertebrates was undertaken in conjunction with the vertebrate fauna survey at sites KBB01 – KBB10 during trip 3. Each site comprised two replicate lines of 5 pitfall traps (20 L buckets and 150 mm PVC pipes) buried in a line approximately 30 m in length with a drift fence of flywire placed along the centre line to direct invertebrates (and vertebrate fauna) into the pitfall traps. The pitfall traps were open for seven nights at each site. These traps were checked once a day for invertebrates and more often for vertebrate fauna. Potential SRE invertebrates were collected using forceps, placing specimens in 80% ethanol.

#### 3.2.5.4 Opportunistic Collection

Various areas that may provide habitat for SRE invertebrates was opportunistically sampled whilst undertaking other surveys in the area Survey Area. This included searching for burrows of mygalomorph spiders and searching under tree bark and logs for potential SRE taxa.

#### 3.2.5.5 SRE Habitat

Potential SRE habitat suitability was assessed and delineated over aerial photography at a scale of 1:5,000 based on fauna habitat mapping and vegetation condition mapping undertaken by 360 Environmental. Polygons were digitised and produced as electronic mapping data using GIS software.

The likelihood that a particular vegetation unit/habitat type contains or supports SRE taxa is defined in Table 19. In the absence of universally recognised definitions, these definitions have

been developed by highly experienced SRE practitioner Dr Timothy Moulds from Invertebrate Solutions.

**Table 19: SRE habitat suitability definitions**

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

#### 3.2.5.6 Sorting and Curation

Sorting for all SRE samples occurred in the Invertebrate Solutions laboratory using a Leica M125 100x dissecting microscope and was undertaken by Dr Timothy Moulds. In the laboratory, fauna was extracted from SRE leaf litter samples using Tullgren funnels and preserved in 100% ethanol. Each taxon was identified to the lowest practical taxonomic rank using published keys and descriptions, and the numbers of each taxon recorded. Each identified taxon was kept in a separate labelled vial and assigned a specimen tracking code. Specimen and site collection data were recorded in an Excel spreadsheet. At the conclusion of the study, all specimens will be lodged at the Western Australian Museum (WAM).

#### 3.2.5.7 Taxonomy and Nomenclature

Identification of the isopod specimens undertaken by Dr Simon Judd, and identification of all other collected invertebrate material was undertaken by Dr Timothy Moulds from Invertebrate Solutions. Invertebrate groups collected that have no SRE representatives such as ants and flying insects were not identified or reported. The presence of winged adults in most insect groups suggests that they are more capable dispersers and, therefore, less likely to have a restricted range.

The level of specimen identification achievable is dependent on the level of taxonomic knowledge and expertise available. Most of the taxonomic expertise relating to SRE taxa resides with the staff of the WAM, while some groups are also worked on by researchers within other government departments and academic institutions. Taxonomic treatments are available for some invertebrate groups, but not all. The EPA expects that invertebrates collected for identification will be identified to the lowest taxonomic level possible. Ideally, this is to the species level, but there will be limits due to the nature of specimens and the availability of

taxonomic keys. Specimens identified to genus level only were excluded from the analysis as it is impossible to determine if they represent a SRE taxon.

### 3.2.5.8 SRE Status

Taxonomic groups known to contain SRE representatives were examined in more detail to determine if the specimens collected are potentially restricted forms. SRE status was assigned using the categories described in Table 20 after comparison with the morphology of other close relatives in the group and current knowledge on their distribution and ecology, where known. The definition for confirmed SRE status is based on that used by Harvey (2002), however no other recognised definitions exist, therefore the definitions for possible SRE taxa have been adapted from unpublished WAM guidelines by highly experienced SRE practitioner Dr Timothy Moulds from Invertebrate Solutions.

**Table 20: Short range endemic status of taxa**

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

## 3.3 Extrapolation Area

A 6,663 ha section of the Survey Area was included in the desktop assessment but could not be assessed during field surveys due to access limitations. Fauna habitat mapping has been extrapolated over a 3,418 ha portion of the area that could not be assessed to provide indicative fauna habitat mapping. Fauna habitat mapping was extrapolated with boundaries delineated over aerial photography at a scale of 1:5,000. Information gathered from the accessible portions of the Survey Area during field surveys undertaken by 360 Environmental was used in conjunction with background information such as broad scale vegetation and land systems mapping to estimate fauna habitats present with the Extrapolation Area. Polygons were digitised and produced as electronic mapping data using GIS software.



### 3.4 Survey Adequacy

Species accumulation curves for vertebrate fauna groups were plotted using the open source software R (R Core Team, 2020) to determine the adequacy of the survey. The treatments comprised Sobs (Mao Tao), to reflect the number of species observed (based on the total number of species recorded), and richness estimators (Chao, Jackknife 1, Jackknife 2 and Bootstrap) to predict the total number of fauna taxa that could potentially be recorded (Clarke and Gorley, 2006).

### 3.5 Limitations

Limitations and constraints of the fauna surveys are detailed in Table 21.

**Table 21: Survey limitations**

| Variable                                    | Constraint (Yes/Partial/No) | Potential Constraints on Survey Outcomes  |
|---|-----------------------------|---|
| <b>Survey scope</b>                         | Partial                     | <p>The detailed vertebrate fauna and SRE surveys were undertaken in accordance with the <i>Technical Guidance - Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment</i> (Environmental Protection Authority, 2020) and <i>Technical Guidance - Sampling of short range endemic invertebrate fauna</i> (Environmental Protection Authority, 2016) where possible and practicable.</p> <p>The scope of the detailed vertebrate fauna survey was limited to a single season. Trip 3 (initial detailed survey) and Trip 5 (infill detailed survey) were undertaken in different seasons, however trap sites established during these trips were not resampled across dual seasons. Information was available from many similar surveys previously undertaken nearby, as shown in Section 3.1.1 and below in Section 4.1.1, therefore it is unlikely that a second season survey will yield taxa that have not been identified in the desktop assessment.</p> <p>Targeted surveys for fauna of conservation significance were undertaken in habitat suitable for Threatened and Priority fauna.</p> |
| <b>Availability of data and information</b> | No                          | <p>All data required to complete the scope of works including regional and local contextual information was available. Information was available from many similar surveys previously undertaken nearby, as shown in Section 3.1.1 and below in Section 4.1.1.</p>  |
| <b>Site Access</b>                          | Yes                         | <p>Most of the Survey Area was accessed by helicopter, vehicle and on foot.</p> <p>One section of the Survey Area could not be accessed due to pastoral leaseholder restrictions. This area was included in the background information and desktop assessment compiled for this report, but no field surveys or associated results have been assessed as part of this report. Additional surveys will be undertaken in this area in future, the outcomes of which will be documented in a separate report.</p>  |
| <b>Adequacy of survey intensity</b>         | No                          | <p>Twelve baseline terrestrial vertebrate fauna trap sites and five trap sites targeting conservation significant terrestrial vertebrate fauna were sampled across the Survey Area. A variety of vertebrate fauna detection methods were utilised, including:</p>   |

| Variable                          | Constraint<br>(Yes/Partial/No) | Potential Constraints on Survey Outcomes  |
|-----------------------------------|--------------------------------|---|
|                                   |                                | <ul style="list-style-type: none"> <li>• 1,140 pitfall trap nights</li> <li>• 1,020 funnel trap nights</li> <li>• 140 small Elliott trap nights</li> <li>• 168 cage trap nights</li> <li>• 204 camera trap days and nights</li> <li>• 55 ultrasonic call ARU recording nights</li> <li>• 36 audible call ARU recording nights.</li> </ul> <p>The SRE surveys included over 30 person hours of active searching, 30 leaf litter samples extracted in Tullgren funnels and 900 pitfall trap nights to provide a high degree of certainty that the majority of potential SRE invertebrates present at the time of surveys were recorded from the Survey Area.</p> <p>Given the size of the Survey Area it was not feasible to systematically survey the entire Survey Area. Additional fauna taxa would likely be recorded with additional survey effort.</p> <p>Access across the Survey Area was sufficient to describe fauna habitats and their extents given the use of a helicopter. Sufficient time was allocated to the fauna surveys, given the size and complexity of the Survey Area, the expected level of survey intensity and that a portion of the Survey Area could not be accessed.</p> <p>The survey effort was considered adequate to assess the fauna values of the Survey Area and provide the information required to support approvals applications.</p> |
| <b>Competency and experience</b>  | No                             | <p>The fauna field surveys were undertaken by a team with extensive experience in undertaking similar scopes of work within the bioregion:</p> <ul style="list-style-type: none"> <li>• Senior Zoologist Edward Swinhoe – 15 years’ experience</li> <li>• Senior Zoologist Michael Brown – 15 years’ experience</li> <li>• Zoologist Evan Webb – 4 years’ experience</li> <li>• Ecologist Lukas Geidans – 4 years’ experience</li> <li>• Zoologist Poppy Walker – 1 year experience.</li> </ul> <p>ARU data analysis was undertaken by specialist Robert Bullen of Bat Call WA. SRE specimen identification and data curation was managed by specialist Dr Timothy Moulds of Invertebrate Solutions and Dr Simon Judd.</p>  |
| <b>Timing, Weather and Season</b> | No                             | <p>Five fauna field surveys were undertaken across the broader Survey Area during 2020 and 2021. These included surveys undertaken during the recommended primary survey periods for the Eremaean Climatic Region as per the Technical Guidance:</p> <ul style="list-style-type: none"> <li>• Reptiles – September to April</li> <li>• Mammals – no preferred time</li> <li>• Amphibians and birds – immediately after rain events.</li> <li>• SRE – November to April or timed to coincide with rainfall.</li> </ul> <p>The SRE survey was undertaken outside the optimal time period for SRE surveys, however a 68.8 mm rainfall event was recorded in the four days prior to the survey. Furthermore, active searching is effective outside the optimal survey period because detection of SRE invertebrates does not depend on invertebrate activity levels.</p>  |

| Variable   | Constraint<br>(Yes/Partial/No) | Potential Constraints on Survey Outcomes   |
|--|--------------------------------|--|
|  |                                | Species diversity during the initial baseline detailed survey (Trip 3) was lower than expected, which may have been due to a prolonged period of low rainfall, however trips 5 and 10 were undertaken after rain events, therefore this is not a constraint on the results of the survey.  |
| <b>Proportion of fauna identified, recorded and/or collected</b> | No                             | <p>All vertebrate fauna taxa recorded during the survey were able to be identified with a high level of confidence.</p> <p>Invertebrate taxa were identified to the lowest practical taxonomic level, taking into consideration that the taxonomic framework of many invertebrate groups is incomplete and often in need of substantial revision to enable accurate identification.</p> <p>Short Range Endemic status was assigned using the available information from the WAM database and discussion with appropriate taxonomic authorities for various invertebrate groups. Insufficient information exists for many invertebrate taxa due to specimens being juvenile, the wrong sex to allow identification, damaged, or inadequate taxonomic frameworks, precluding the assignment of SRE status.</p> |
| <b>Disturbances</b>  | No                             | Areas of disturbance associated with old borrow pits, access tracks, cattle grazing, and trampling, weeds and frequent fire were recorded but were not a constraint on the results of the survey.  |
| <b>Problems with data and analysis</b>                           | No                             | There were no constraints on the results of the survey due to problems with data and analysis.   |



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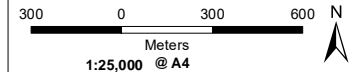


- Legend**
- Roads
  - Survey Area
  - Fauna GPS Tracks

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**LOCALITY MAP**



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HORIZONTAL DATUM AND PROJECTION  
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**Figure 9a**  
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### Legend

- Roads
- Survey
- Fauna GPS Tracks
- SRE GPS Tracks

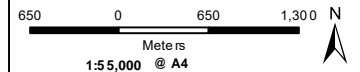
### Fauna Survey Sites

- ARU - audible calls
- ARU - ultrasonic calls
- Baseline trap site
- Camera trap
- Habitat assessment
- SRE Survey Sites

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**LOCALITY MAP**



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**Figure 9b**  
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**Legend**

- Roads
- Survey Area
- Fauna GPS Tracks
- SRE GPS Tracks

**Fauna Survey Sites**

- Baseline trap site
- Camera trap
- Habitat assessment
- SRE Survey Sites

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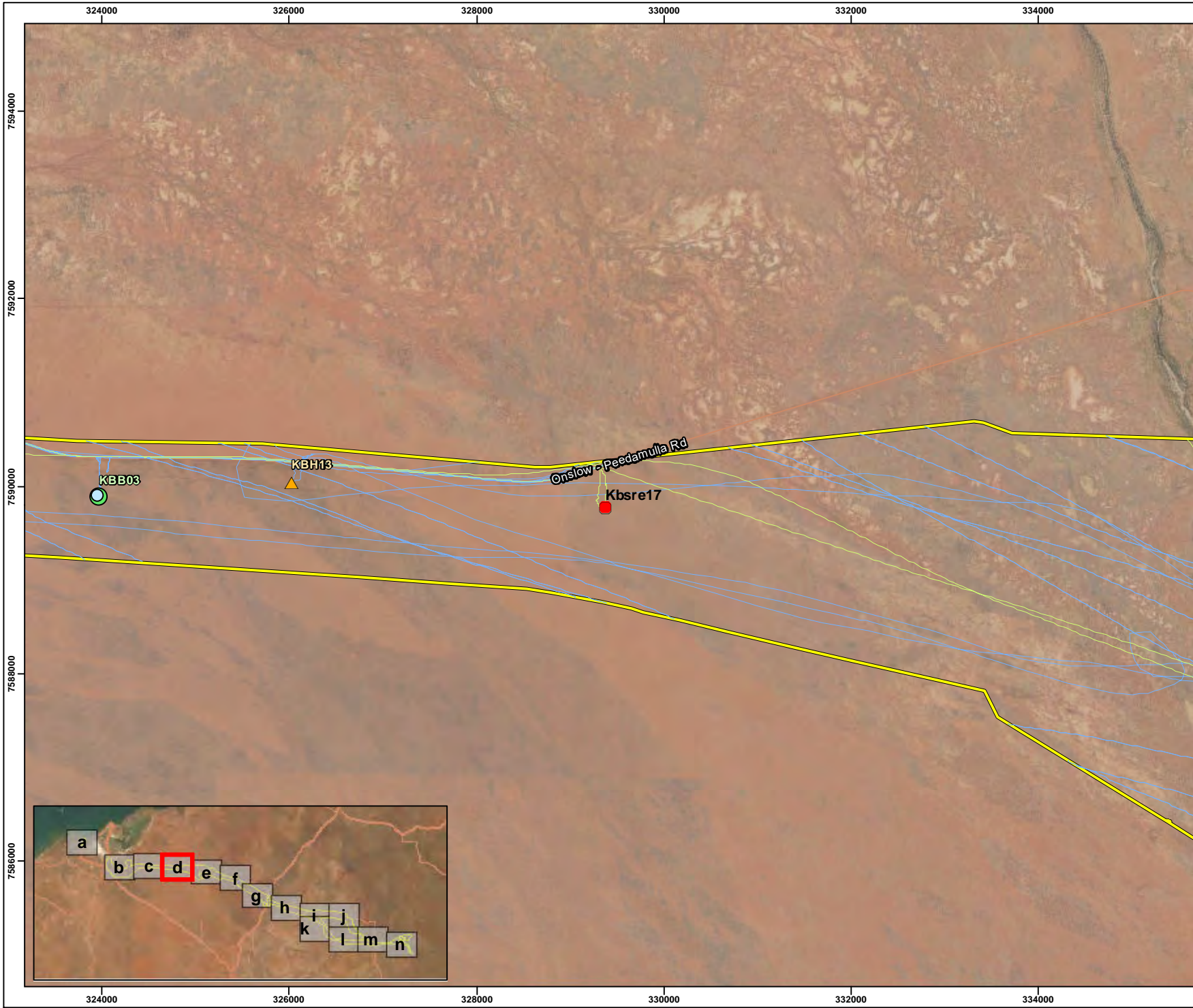
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**Figure 9c**  
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**Legend**

- Roads
- Survey Area
- Fauna GPS Tracks
- SRE GPS Tracks

**Fauna Survey Sites**

- Baseline trap site
- Camera trap
- ▲ Habitat assessment
- SRE Survey Sites

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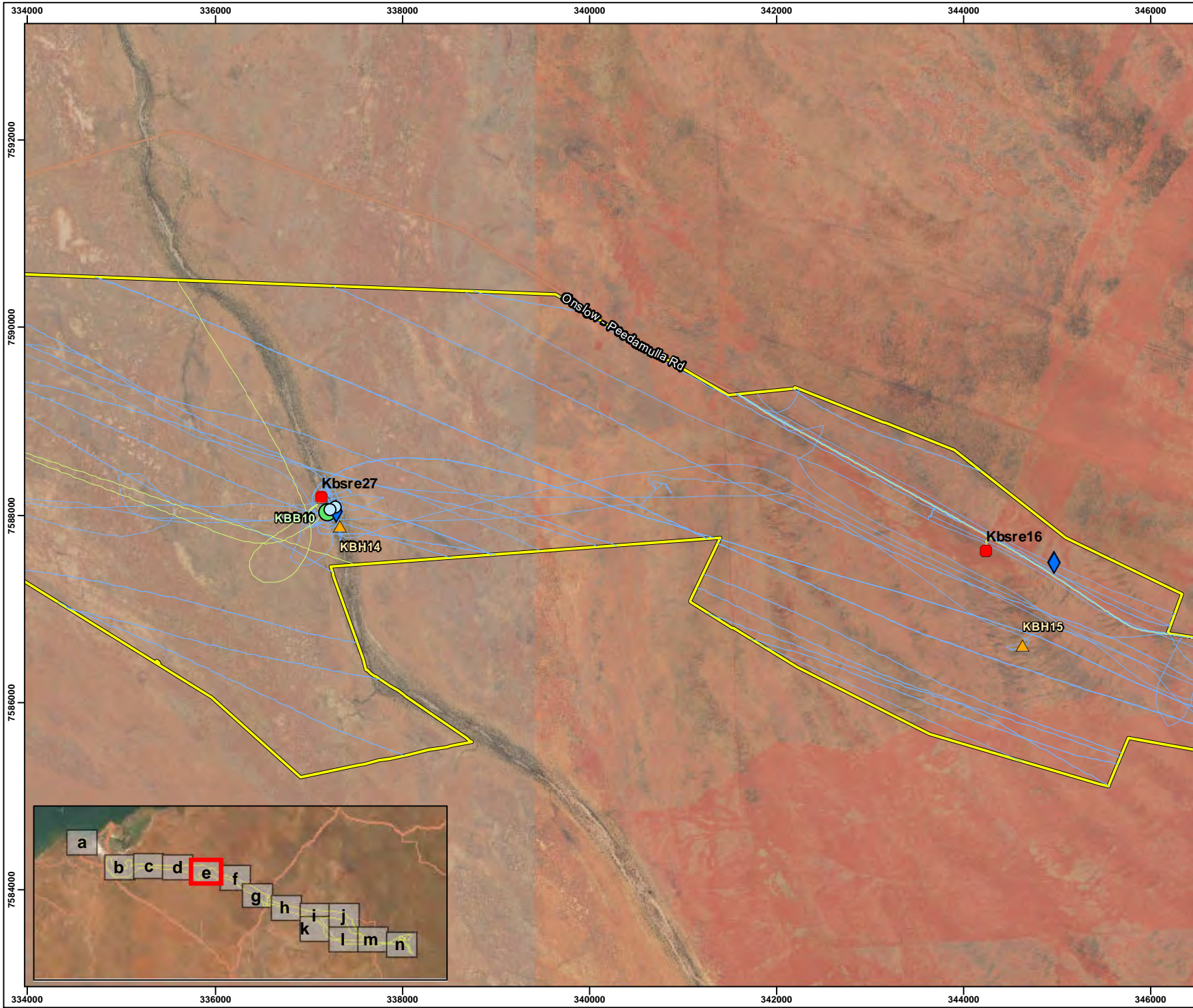
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### Legend

- Roads
- Survey Area
- Fauna GPS Tracks
- SRE GPS Tracks

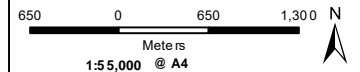
### Fauna Survey Sites

- ◆ ARU - audible calls
- ◆ ARU - ultrasonic calls
- Baseline trap site
- Camera trap
- ▲ Habitat assessment
- SRE Survey Sites

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**LOCALITY MAP**



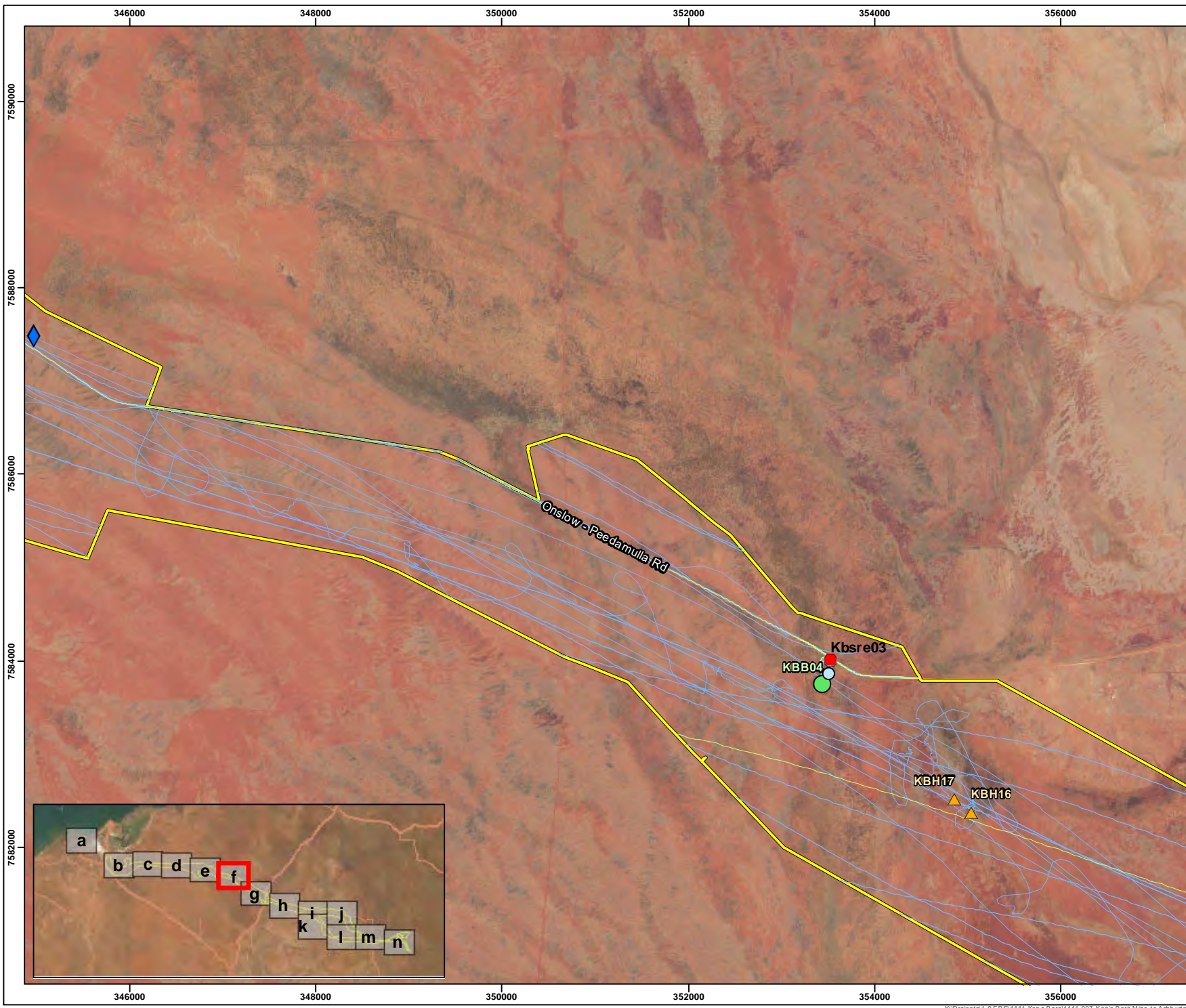
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### Legend

- Roads
- Survey Area
- Fauna GPS Tracks
- SRE GPS Tracks

### Fauna Survey Sites

- ◆ ARU - audible calls
- ◆ ARU - ultrasonic calls
- Baseline trap site
- Camera trap
- ▲ Habitat assessment
- SRE Survey Sites

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### LOCALITY MAP

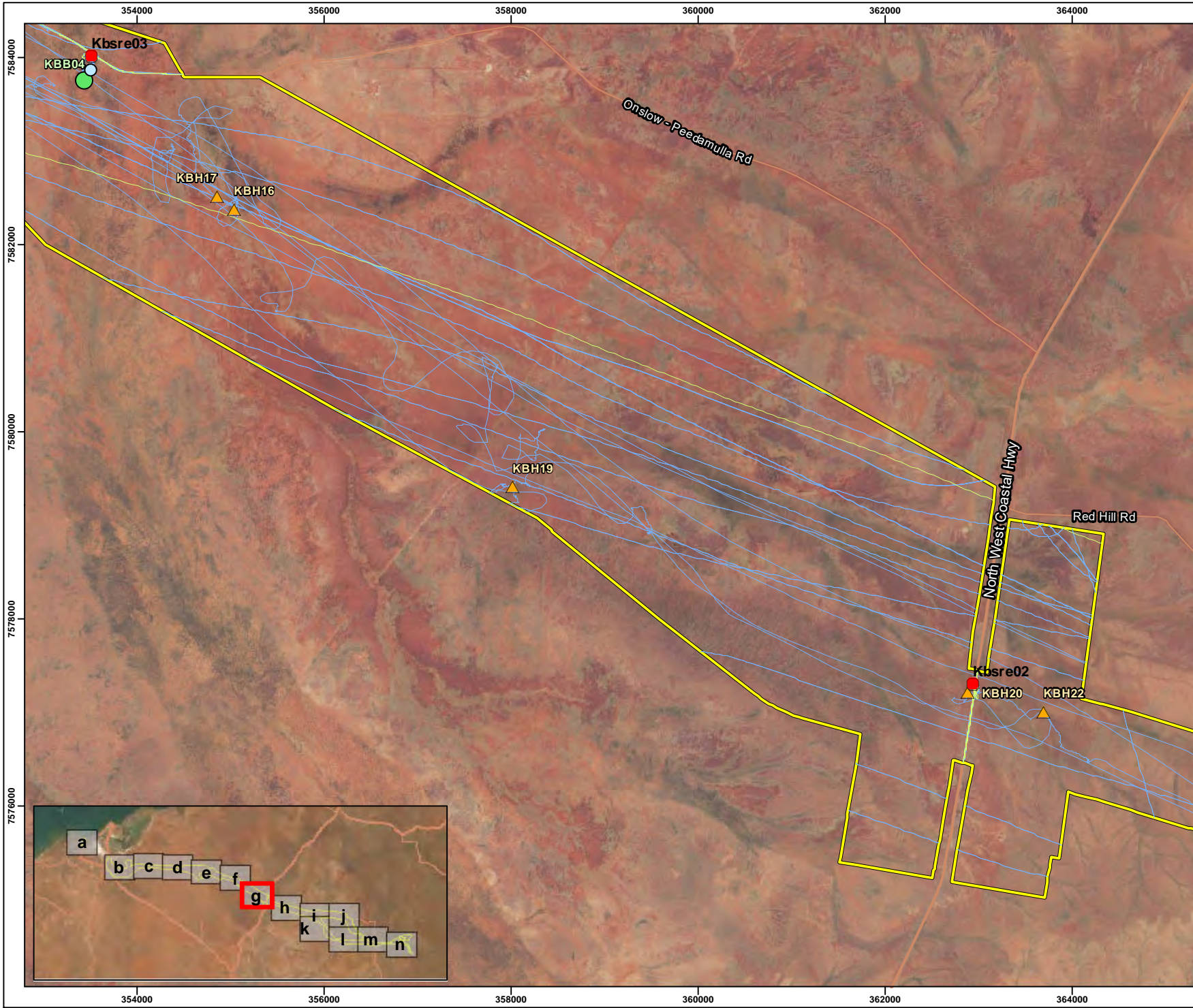
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## Figure 9f Survey Effort



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**Legend**

- Roads
- Survey Area
- Fauna GPS Tracks
- SRE GPS Tracks

**Fauna Survey Sites**

- Baseline trap site
- Camera trap
- Habitat assessment
- SRE Survey Sites

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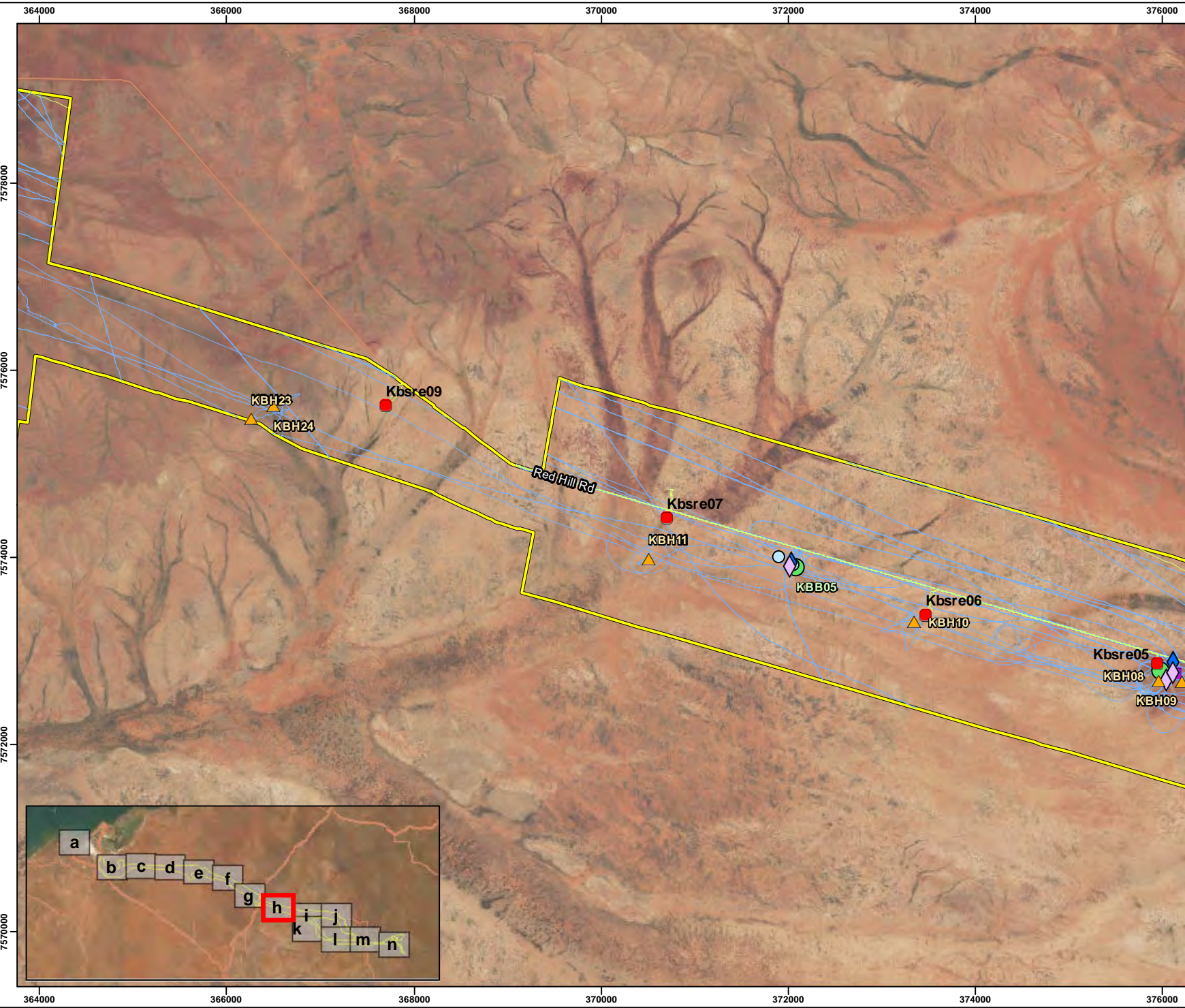
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**Figure 9g**  
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**Legend**

- Roads
- Survey Area
- Fauna GPS Tracks
- SRE GPS Tracks

**Fauna Survey Sites**

- ◆ ARU - audible calls
- ◆ ARU - ultrasonic calls
- Baseline trap site
- Camera trap
- ▲ Habitat assessment
- Targeted trap site
- SRE Survey Sites

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**LOCALITY MAP**

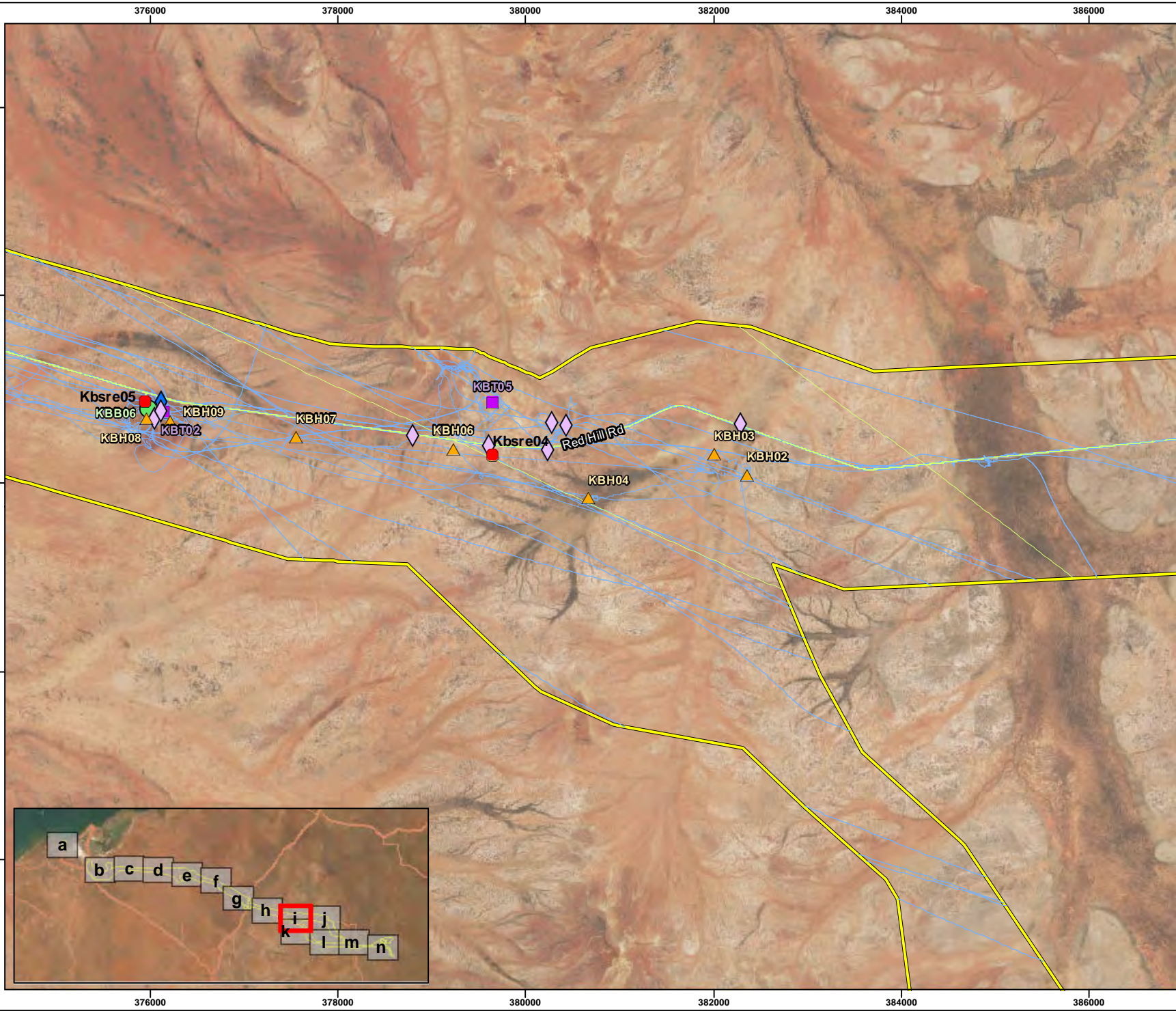
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| PROJECT ID<br>4441 007                                  |               | DATE<br>26/08/2021 |                |
| HORIZONTAL DATUM AND PROJECTION<br>GDA 1994 MGA Zone 50 |               |                    |                |
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**Figure 9h**  
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**Legend**

- Roads
- Survey Area
- Fauna GPS Tracks
- SRE GPS Tracks

**Fauna Survey Sites**

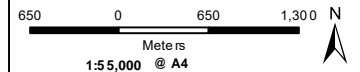
- ARU - audible calls
- ARU - ultrasonic calls
- Baseline trap site
- Habitat assessment
- Targeted trap site
- SRE Survey Sites

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**LOCALITY MAP**



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**Figure 9i**  
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**Legend**

- Roads
- Survey Area
- Fauna GPS Tracks
- SRE GPS Tracks

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**LOCALITY MAP**

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| HORIZONTAL DATUM AND PROJECTION<br>GDA 1994 MGA Zone 50 |                    |                |                |
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**Vertebrate Fauna and**  
**SRE Assessment**

**Figure 9j**  
**Survey Effort**



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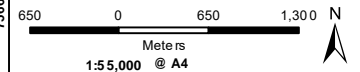


- Legend**
- Roads
  - Survey Area
  - Fauna GPS Tracks
  - SRE GPS Tracks
- Fauna Survey Sites**
- ▲ Habitat assessment

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS  
 - LOCALITY MAP SOURCED LANDGATE 2020  
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HORIZONTAL DATUM AND PROJECTION  
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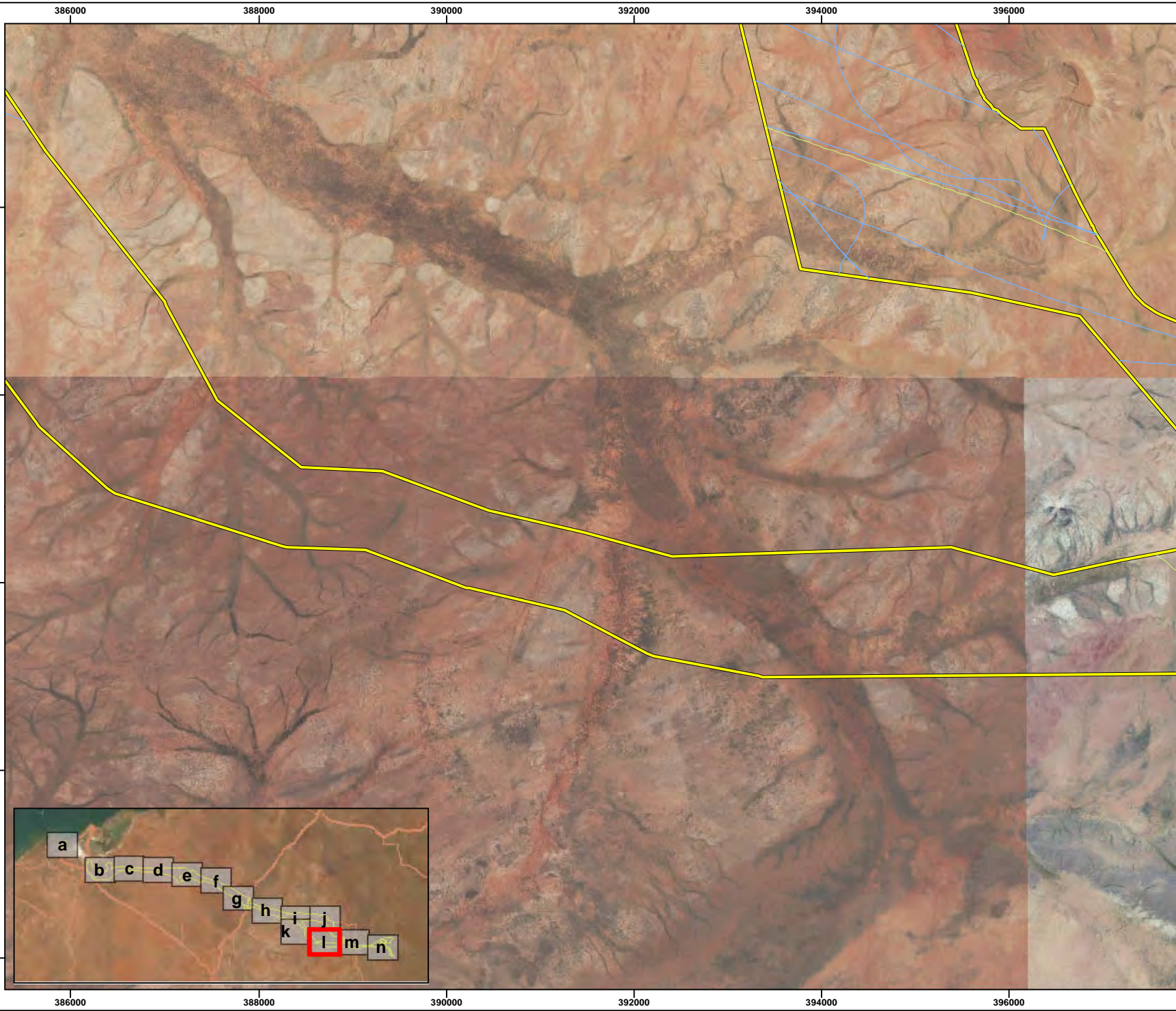
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**Figure 9k**  
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**Legend**

- Roads
- Survey Area
- Fauna GPS Tracks
- SRE GPS Tracks

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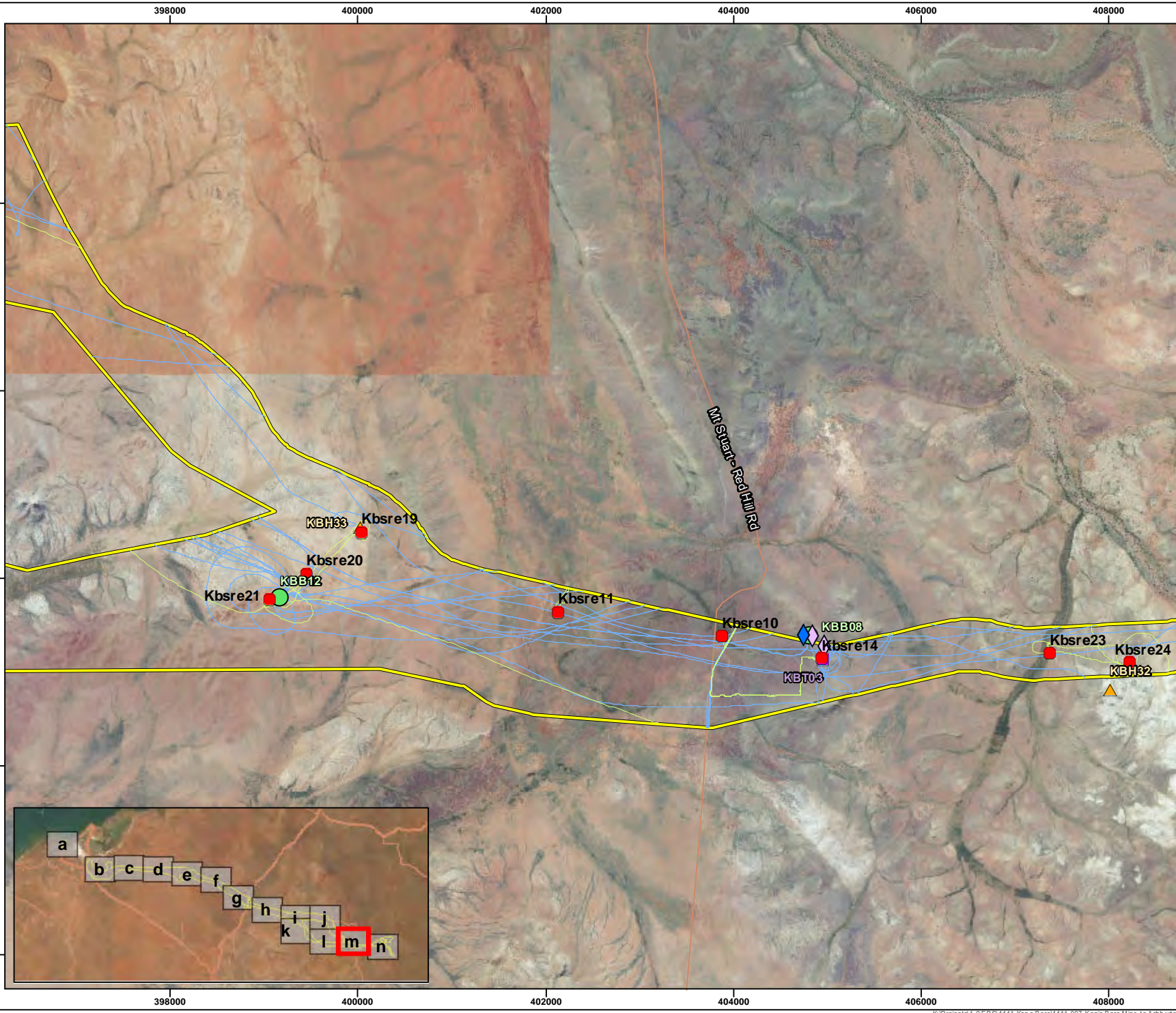
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**Figure 9I**  
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### Legend

- Roads
- Survey
- Fauna GPS Tracks
- SRE GPS Tracks

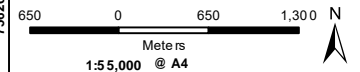
### Fauna Survey Sites

- ARU - audible calls
- ARU - ultrasonic calls
- Baseline trap site
- Habitat assessment
- Targeted trap site
- SRE Survey Sites

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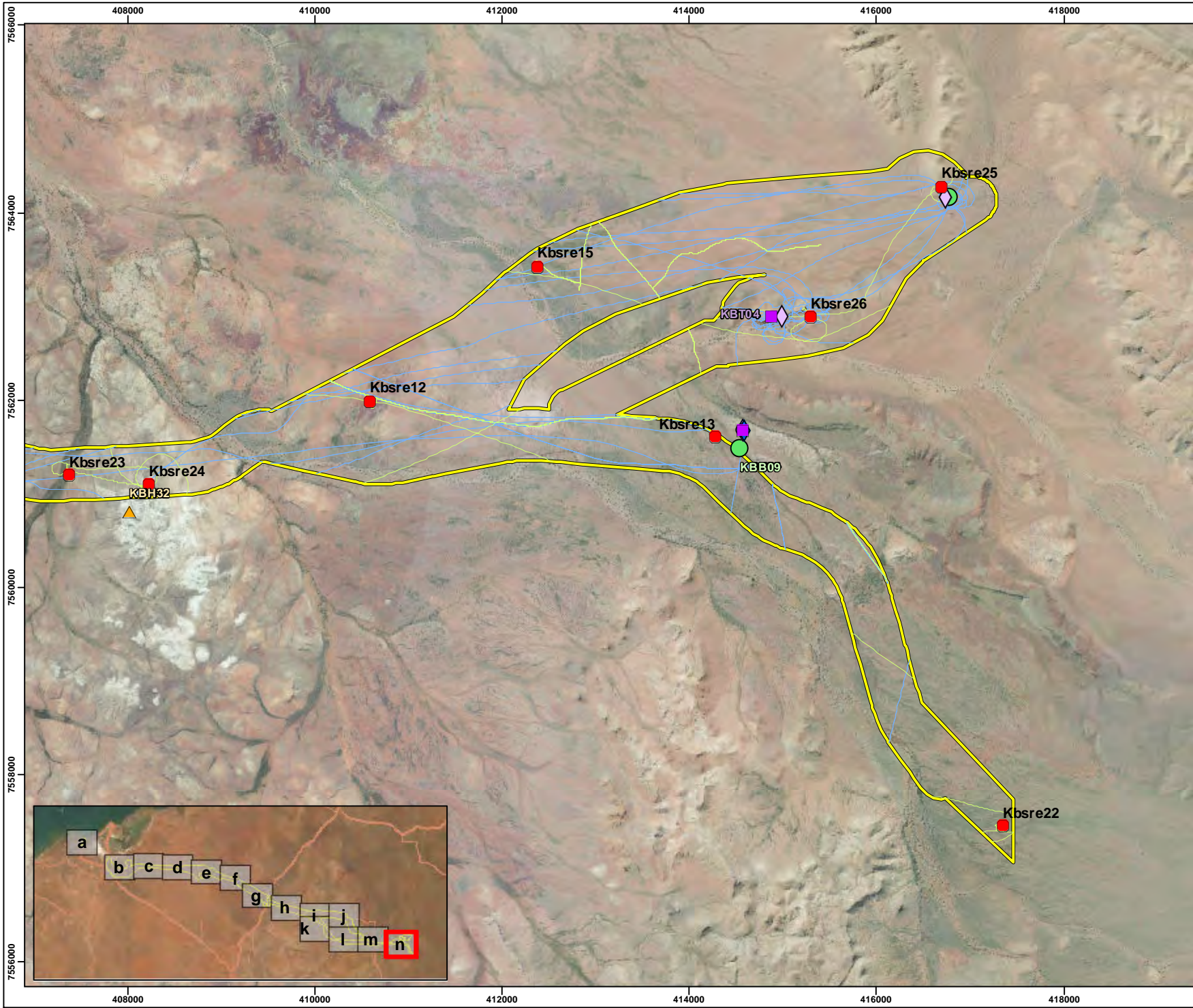
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**Legend**

- Roads
- Survey Area
- Fauna GPS Tracks
- SRE GPS Tracks

**Fauna Survey Sites**

- ARU - audible calls
- ARU - ultrasonic calls
- Baseline trap site
- Camera trap
- Habitat assessment
- Targeted trap site
- SRE Survey Sites

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**Figure 9n**  
 Survey Effort



## 4 Results

### 4.1 Vertebrate Fauna

#### 4.1.1 Desktop Assessment

##### 4.1.1.1 Literature Review and Database Searches

The literature review and database searches identified 441 terrestrial vertebrate fauna taxa, of which 58 are conservation significant, comprising:

- A total of 247 birds, of which 46 are conservation significant
- A total of 52 mammals, of which seven are conservation significant (excluding marine mammals)
- A total of 132 reptiles, of which five are conservation significant (excluding marine reptiles)
- Ten amphibians, none of which are conservation significant.

The locations of the previous studies reviewed are shown in Figure 10 and key findings of the literature review are summarised in Table 22. The results of the DBCA Threatened and Priority Fauna database search are mapped in Figure 11 and database searches are displayed in their entirety in Appendix A. A full inventory of fauna identified during the desktop assessment is presented in Appendix C.

##### 4.1.1.2 Conservation Significant Vertebrate Fauna Likelihood of Occurrence

The likelihood of occurrence assessment for conservation significant vertebrate fauna taxa is summarised below and presented in its entirety in Table 23:

- Twenty-one taxa were assessed as having a high likelihood of occurrence within the Survey Area (of which four were later confirmed to occur during field surveys), comprising:
  - Grey Falcon (*Falco hypoleucos*) – Vulnerable under BC Act
  - Peregrine Falcon (*Falco peregrinus*) – Other Specially Protected Fauna under BC Act
  - Northern Quoll (*Dasyurus hallucatus*) (confirmed) – Endangered under BC Act and EPBC Act
  - Ghost Bat (*Macroderma gigas*) (confirmed) – Vulnerable under BC Act and EPBC Act
  - Short-tailed Mouse (*Leggadina lakedownensis*) – Priority 4 under BC Act
  - Pilbara Leaf-nosed Bat (*Rhinioncteris aurantia* Pilbara form) (confirmed) – Vulnerable under BC Act and EPBC Act
  - Western Pebble-mound Mouse (*Pseudomys chapmani*) (confirmed) – Priority 4 under BC Act
  - Pilbara Olive Python (*Liasis olivaceus barroni*) – Vulnerable under BC Act and EPBC Act
  - Thirteen wetland/shorebirds.

- Eighteen taxa were assessed as having a medium likelihood of occurrence within the Survey Area, comprising:
  - Pacific Swift (Fork-tailed Swift) (*Apus pacificus*) – Migratory under BC Act and EPBC Act
  - Barn Swallow (*Hirundo rustica*) – Migratory under BC Act and EPBC Act
  - Common Brushtail Possum (*Trichosurus vulpecula*) – Locally significant due to rarity in the Pilbara and taxonomic doubt surrounding the Pilbara population
  - Maryan's Keeled Slider (*Lerista planiventralis maryani*) – Priority 1 under BC Act
  - Fourteen wetland/shorebirds.
- Eighteen taxa have a low likelihood of occurrence within the Survey Area.

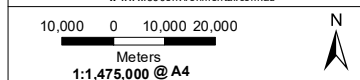


- ### Legend
- Survey Area
  - Roads
- #### Previous Study Locations
- Astron Environmental Services, 2011a
  - Astron Environmental Services, 2011b
  - Astron Environmental Services, 2012
  - Bat Call WA, 2015
  - Biota Environmental Sciences, 2008
  - Biota Environmental Sciences, 2009
  - Biota Environmental Sciences, 2015a
  - Biota Environmental Sciences, 2015b
  - Biota Environmental Sciences, 2015c
  - Ninox Wildlife Consulting, 2013
  - Phoenix Environmental Sciences, 2017
  - Rapallo Environmental, 2011
  - Rapallo Environmental, 2012a
  - Rapallo Environmental, 2012b
  - Rapallo Environmental, 2013
  - Rio Tinto Iron Ore, 2018
  - Ecologia Environment, 2015

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**Figure 10**  
**Previous Study Locations**



Table 22: Literature review summary

| Report  | Distance to current Survey Area | Survey timing                        | Survey effort  | Recorded conservation significant fauna  | Fauna habitats  |
|---|---------------------------------|--------------------------------------|--|--|---|
| <i>2011 Targeted Surveys for Populations of the Northern Quoll on the West Pilbara Iron Ore Project</i> (Rapallo Environmental, 2012b)                | Overlaps Survey Area            | June, July, August, and October 2011 | 164 motion cameras deployed for a minimum of five nights<br><br>Eight trap sites with 20 cage traps at each. | <ul style="list-style-type: none"> <li>• 116 Northern Quoll (<i>Dasyurus hallucatus</i>) identified with motion cameras</li> <li>• 41 Northern Quoll (<i>Dasyurus hallucatus</i>) captured within cage traps</li> <li>• Pilbara Olive Python (<i>Liasis olivaceus barroni</i>)</li> <li>• Pilbara Leaf-nosed Bat (<i>Rhinonictoris aurantia</i> Pilbara form)</li> <li>• Peregrine Falcon (<i>Falco peregrinus</i>)</li> <li>• Western Pebble-mound Mouse (<i>Pseudomys chapmani</i>)</li> <li>• Ghost Bat (<i>Macroderma gigas</i>).</li> </ul> | <p>Four habitats were identified.</p> <ul style="list-style-type: none"> <li>• Potential denning habitat (Areas with caves, crevices, and tunnels)</li> <li>• Potential forage and dispersal habitats (Areas that border denning habitat)</li> <li>• Adjacent to medium suitable habitats (Areas with sparse vegetation or no caves, crevices, or tunnels)</li> <li>• Other (Areas with no suitable Northern Quoll habitat).</li> </ul> |
| <i>A Level 1 Vertebrate Fauna Assessment of the Proposed Tubridgi to Wheatstone Gas Pipeline, Western Australia</i> (Ninox Wildlife Consulting, 2011) | Overlaps Survey Area            | April 2013                           | Reconnaissance survey  | <ul style="list-style-type: none"> <li>• Eastern Great Egret (<i>Ardea alba modesta</i>) (no longer listed)</li> <li>• Rainbow Bee-eater (<i>Merops ornatus</i>) (no longer listed)</li> <li>• Australian Bustard (<i>Ardeotis australis</i>) (no longer listed).</li> </ul>   | Mangrove habitat was identified.  |
| <i>Annual Monitoring Survey of the WPIOP Stage 1 for API Management</i> (Rapallo Environmental, 2013)   | Overlaps Survey Area            | June/July 2012                       | 150 cage traps over eight trapping sites   | <ul style="list-style-type: none"> <li>• 75 Northern Quoll (<i>Dasyurus hallucatus</i>) captured within cage traps.</li> </ul>   | NA  |

| Report   | Distance to current Survey Area                     | Survey timing          | Survey effort  | Recorded conservation significant fauna   | Fauna habitats   |
|--|---|------------------------|--|---|--|
| <i>Biological Assessment of the Conservation Focus Area for API Management (Rapallo Environmental, 2012a)</i>  | Red Hill Creek and Cane River, east of central MSAs | June 2011 and May 2012 | Reconnaissance Survey: <ul style="list-style-type: none"> <li>• 24 motion cameras deployed for between 19 and 22 days</li> <li>• 10 SM2+ echolocation recording units</li> <li>• Trapping Survey:</li> <li>• 100 cage traps over five trapping sites.</li> </ul> | <ul style="list-style-type: none"> <li>• 13 Northern Quoll (<i>Dasyurus hallucatus</i>) captured on motion camera</li> <li>• 23 Northern Quoll (<i>Dasyurus hallucatus</i>) captured within cage traps</li> <li>• Peregrine Falcon (<i>Falco peregrinus</i>)</li> <li>• Ghost Bat (<i>Macroderma gigas</i>)</li> <li>• Rainbow Bee-eater (<i>Merops ornatus</i>)</li> <li>• Pilbara Leaf-nosed Bat (<i>Rhinonictes aurantia</i> Pilbara form)</li> <li>• Pilbara Olive Python (<i>Liasis olivaceus barroni</i>)</li> <li>• Australian Bustard (<i>Ardeotis australis</i>).</li> </ul> | Eight habitats were identified. <ul style="list-style-type: none"> <li>• Gorge</li> <li>• Hill/Plateau</li> <li>• Mesa/Outcrop</li> <li>• Major Riparian (incised drainage)</li> <li>• Major Riparian (open drainage)</li> <li>• Minor Riparian (incised drainage)</li> <li>• Minor Riparian (open drainage)</li> <li>• Plains.</li> </ul> 37 caves recorded and assessed. |
| <i>Echolocation Survey of Bat Activity, API Management Pty Ltd West Pilbara Iron Ore Project: Kens Bore East -Red Hill Creek (Bat Call WA, 2015)</i> | Overlaps eastern portion of Survey Area             | August 2015            | 20 survey sites  | <ul style="list-style-type: none"> <li>• Pilbara Leaf-nosed Bat (<i>Rhinonictes aurantia</i> Pilbara form)</li> <li>• Ghost Bat (<i>Macroderma gigas</i>).</li> </ul>   | Two broad bat habitats identified <ul style="list-style-type: none"> <li>• Regional Bat Habitat 2: Hamersley Range – Productive watercourse, waterholes, and riparian sites'</li> <li>• Regional Bat Habitat 3: Hamersley Range – Deep shelters and caves.</li> </ul>  |



| Report  | Distance to current Survey Area | Survey timing    | Survey effort  | Recorded conservation significant fauna  | Fauna habitats   |
|---|---------------------------------|------------------|--|--|--|
| <i>Flora and vegetation survey and terrestrial fauna survey for the Pilbara Regional Waste Management Facility (Phoenix Environmental Sciences, 2017)</i> | 10 km south of the Survey Area  | September 2017   | Desktop review<br>Targeted terrestrial fauna survey                      | <ul style="list-style-type: none"> <li>• Rainbow Bee-eater (<i>Merops ornatus</i>).</li> </ul>   | Two habitats were identified <ul style="list-style-type: none"> <li>• Mosaic of hummock grassland and shrubland on plain (85.9%)</li> <li>• Shrubland on sand dune (14.1%).</li> </ul>   |
| <i>Flora, Vegetation and Fauna Habitat Assessment at Bourne Highway (Rio Tinto Iron Ore, 2018)</i>  | 40 km east of the Survey Area   | June – July 2017 | Desktop Assessment<br>Reconnaissance field survey<br>Targeted bat survey | <ul style="list-style-type: none"> <li>• Pilbara Leaf-nosed Bat (<i>Rhinonictis aurantia</i> Pilbara form)</li> <li>• Western Pebble-mound Mouse (<i>Pseudomys chapmani</i>).</li> </ul>   | Five habitats were identified. <ul style="list-style-type: none"> <li>• Rocky slopes (89.2%)</li> <li>• Rocky breakaways and cliffs (1.16%)</li> <li>• Gullies (0.97%)</li> <li>• Drainage lines (6.95%)</li> <li>• Plains (0.99%).</li> </ul> |
| <i>Pilbara Olive Python Reconnaissance Survey of the West Pilbara Iron Ore Project (Rapallo Environmental, 2011)</i>                                      | Overlaps Survey Area            | August 2010      | 176 survey sites assessed  | <ul style="list-style-type: none"> <li>• Northern Quoll (<i>Dasyurus hallucatus</i>)</li> <li>• Ghost Bat (<i>Macroderma gigas</i>)</li> <li>• Western Pebble-mound Mouse (<i>Pseudomys chapmani</i>)</li> <li>• Rainbow Bee-eater (<i>Merops ornatus</i>)</li> <li>• Australian Bustard (<i>Ardeotis australis</i>).</li> </ul> | NA   |

| Report  | Distance to current Survey Area | Survey timing                 | Survey effort                              | Recorded conservation significant fauna   | Fauna habitats   |
|---|---------------------------------|-------------------------------|--|---|--|
| <i>Solomon Hub Vertebrate Fauna Assessment (ecologia Environment, 2015)</i>   | 160 km east of the Survey Area  | April 2014                    | Detailed fauna survey                      | <ul style="list-style-type: none"> <li>Northern Quoll (<i>Dasyurus hallucatus</i>)</li> <li>Pilbara Leaf-nosed Bat (<i>Rhinonictis aurantia</i> Pilbara form)</li> <li>Long-tailed Dunnart (<i>Sminthopsis longicaudata</i>)</li> <li>Ghost Bat (<i>Macroderma gigas</i>)</li> <li>Short-tailed Mouse (<i>Leggadina lakedownensis</i>)</li> <li>Western Pebble-mound Mouse (<i>Pseudomys chapmani</i>)</li> <li>Fork-tailed Swift (<i>Apus pacificus</i>)</li> <li>Rainbow Bee-eater (<i>Merops ornatus</i>)</li> <li>Eastern Great Egret (<i>Ardea alba modesta</i>)</li> <li>Peregrine Falcon (<i>Falco peregrinus</i>)</li> <li>Australian Bustard (<i>Ardeotis australis</i>)</li> <li>Flock Bronzewing (<i>Phaps histrionica</i>)</li> <li>Pilbara Olive Python (<i>Liasis olivaceus barroni</i>)</li> <li>Gane's blind snake (<i>Anilius ganei</i>)</li> <li>Pilbara Barking Gecko (<i>Underwoodisaurus seorsus</i>)</li> <li>Lined Soil-crevice Skink (<i>Notoscincus butleri</i>).</li> </ul> | Eleven habitats were identified. <ul style="list-style-type: none"> <li>Plain (stony gibber) (45.4%)</li> <li>Hilltops/ridges/plateaux (12.5%)</li> <li>Plain (Alluvial) (11.3%)</li> <li>Plain (Cracking clay) (10.3%)</li> <li>Hummock grassland (6.0%)</li> <li>Shrubland (Open) (5.0%)</li> <li>Woodland (Open Eucalypt) (3.3%)</li> <li>Plain (stony calcrete) (3.0%)</li> <li>Drainage line/River/Creek (Major) (2.2%)</li> <li>Gorges and Gullies (1.0%)</li> <li>Tussock grassland (on loam/clay) (&lt;0.1%).</li> </ul> |
| <i>West Pilbara Iron Ore Project Activity Assessment for Bats of Conservation Significance (Astron Environmental Services, 2012)</i>                        | Overlaps Survey Area            | March, July, and October 2011 | 16 field survey days<br>18 recording sites | <ul style="list-style-type: none"> <li>Pilbara Leaf-nosed Bat (<i>Rhinonictis aurantia</i> Pilbara form)</li> <li>Ghost Bat (<i>Macroderma gigas</i>).</li> </ul>   | NA   |
| <i>West Pilbara Iron Ore Project Habitat Assessment for Terrestrial Fauna of National Environmental Significance (Astron Environmental Services, 2011a)</i> | Overlaps Survey Area            | May 2011                      | Desktop Assessment                         |   | Five broad habitat types   |

| Report  | Distance to current Survey Area | Survey timing            | Survey effort  | Recorded conservation significant fauna  | Fauna habitats  |
|---|---------------------------------|--------------------------|--|--|---|
| <i>West Pilbara Iron Ore Project MNES Fauna Species Habitat Assessment (Biota Environmental Sciences, 2015a)</i>          | Overlaps Survey Area            | September / October 2015 | 36 representative habitat assessment sites selected with 21 sites ground truthed | <ul style="list-style-type: none"> <li>Northern Quoll (<i>Dasyurus hallucatus</i>)</li> <li>Ghost Bat (<i>Macroderma gigas</i>).</li> </ul>            | NA  |
| <i>West Pilbara Iron Ore Project Onslow Rail Corridor – Level 1 Fauna Assessment (Biota Environmental Sciences, 2008)</i> | Overlaps Survey Area            | 2008                     | Desktop Assessment   | Desktop Assessment   | Five habitats were identified. <ul style="list-style-type: none"> <li>Mudflats</li> <li>Alluvial Plains</li> <li>Sandy Plains</li> <li>Stony Plains</li> <li>Mesas and Hills.</li> </ul>  |
| <i>West Pilbara Iron Ore Project Onslow Rail Corridor Terrestrial Fauna Survey (Biota Environmental Sciences, 2009)</i>   | Overlaps Survey Area            | October 2008             | Detailed fauna survey  | <ul style="list-style-type: none"> <li>Northern Quoll (<i>Dasyurus hallucatus</i>)</li> <li>Australian Bustard (<i>Ardeotis australis</i>).</li> </ul> | Six habitats were identified. <ul style="list-style-type: none"> <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> |
| <i>West Pilbara Iron Ore Project Pilbara Leaf-nosed Bat Habitat Assessment (Astron Environmental Services, 2011b)</i>     | Overlaps Survey Area            | October 2011             | Habitat assessment of 113 locations  | NA   | NA  |

| Report   | Distance to current Survey Area | Survey timing | Survey effort  | Recorded conservation significant fauna   | Fauna habitats   |
|--|---------------------------------|---------------|--|---|--|
| <i>West Pilbara Iron Ore Project Red Hill Creek Terrestrial Fauna Assessment: Phase 1</i> (Biota Environmental Sciences, 2015b)    | 7 km east of the Survey Area    | May 2015      | 708 trapping nights<br>6.5 hours avifauna censuses<br>14 recording nights (SM2BAT SongMeter)<br>15 camera trap nights<br>78 person hours SRE searches. | <ul style="list-style-type: none"> <li>Northern Quoll (<i>Dasyurus hallucatus</i>)</li> <li>Pilbara Leaf-nosed Bat (<i>Rhinonictis aurantia</i> Pilbara form)</li> <li>Pilbara Olive Python (<i>Liasis olivaceus barroni</i>)</li> <li>Grey Falcon (<i>Falco hypoleucos</i>)</li> <li>Rainbow Bee-eater (<i>Merops ornatus</i>)</li> <li>Ghost Bat (<i>Macroderma gigas</i>)</li> <li>Australian Bustard (<i>Ardeotis australis</i>).</li> </ul>  | Ten habitats were identified: <ul style="list-style-type: none"> <li>Gorge</li> <li>Free face</li> <li>Breakaway</li> <li>Pediment</li> <li>Hill slope</li> <li>Plateau</li> <li>Minor drainage line</li> <li>Flood plain</li> <li>Alluvial plain</li> <li>Major drainage line.</li> </ul> |
| <i>West Pilbara Iron Ore Project Stage 1 Extension Terrestrial Fauna Assessment: Phase 1</i> (Biota Environmental Sciences, 2015c) | 4 km east of the Survey Area    | May 2015      | 1,633 trapping nights<br>15 hours avifauna censuses<br>14 recording nights (SM2BAT SongMeter)<br>12 camera trap nights<br>39 person hours SRE searches | <ul style="list-style-type: none"> <li>Northern Quoll (<i>Dasyurus hallucatus</i>)</li> <li>Pilbara Leaf-nosed Bat (<i>Rhinonictis aurantia</i> Pilbara form)</li> <li>Ghost Bat (<i>Macroderma gigas</i>)</li> <li>Grey Falcon (<i>Falco hypoleucos</i>)</li> <li>Gane's blind snake (<i>Anilius ganei</i>)</li> <li>Australian Bustard (<i>Ardeotis australis</i>)</li> <li>Western Pebble-mound Mouse (<i>Pseudomys chapmani</i>)</li> <li>Rainbow Bee-eater (<i>Merops ornatus</i>).</li> </ul> | Six habitats were identified. <ul style="list-style-type: none"> <li>Flood plain/Alluvial plain</li> <li>Goerge/Freeface/Breakaway</li> <li>Hill plateau/Mesa plateau</li> <li>Major drainage</li> <li>Minor drainage</li> <li>Pediment/Hillslope.</li> </ul>                              |

**Table 23: Conservation Significant Vertebrate Fauna Likelihood of Occurrence**

| Family              | Scientific Name                 | Common Name                       | Conservation Status |             | Database Search |      |      | Likelihood of Occurrence | Justification   |
|---------------------|---------------------------------|-----------------------------------|---------------------|-------------|-----------------|------|------|--------------------------|---|
|                     |                                 |                                   | State               | Federal     | NM              | PMST | DBCA |                          |   |
| <b>Birds</b>        |                                 |                                   |                     |             |                 |      |      |                          |   |
| <b>Apodidae</b>     | <i>Apus pacificus</i>           | Pacific Swift (Fork-tailed Swift) | MI                  | MI & MA     | x               |      | x    | Medium                   | Recent nearby records. May use habitats in Survey Area for foraging (particularly airspace where insects are abundant).   |
| <b>Charadriidae</b> | <i>Charadrius leschenaultii</i> | Greater Sand Plover               | VU & MI             | VU, MI & MA | x               |      | x    | High                     | Recent nearby records. Suitable habitats occur primarily in the PPA Area (tidal flats, sandy substrates).   |
|                     | <i>Charadrius mongolus</i>      | Lesser Sand Plover                | EN & MI             | EN, MI & MA | x               |      | x    | High                     | Nearby records. Suitable habitats occur primarily in the PPA Area (tidal flats, muddy substrates).  |
|                     | <i>Charadrius veredus</i>       | Oriental Plover                   | MI                  | MI & MA     | x               |      | x    | High                     | Nearby records, abundant suitable habitat (grasslands, sparsely vegetated plains).  |
|                     | <i>Pluvialis squatarola</i>     | Grey Plover                       | MI                  | MI & MA     | x               |      | x    | High                     | Recent nearby records. Suitable habitats occur primarily in the PPA Area (tidal flats).   |
| <b>Falconidae</b>   | <i>Falco hypoleucos</i>         | Grey Falcon                       | VU                  | -           |                 |      | x    | High                     | Recent nearby records. Preferred nesting habitat occurs within drainage line/river/creek habitat (arid inland, open plains). May use all habitats within Survey Area for hunting. |



| Family              | Scientific Name               | Common Name                | Conservation Status |         | Database Search |      |      | Likelihood of Occurrence | Justification   |
|---------------------|-------------------------------|----------------------------|---------------------|---------|-----------------|------|------|--------------------------|---|
|                     |                               |                            | State               | Federal | NM              | PMST | DBCA |                          |   |
| <b>Falconidae</b>   | <i>Falco peregrinus</i>       | Peregrine Falcon           | OS                  | -       | x               |      | x    | High                     | Recent nearby records. Preferred nesting habitat occurs within rocky hills/mesa habitat. May use all habitats within Survey Area for hunting.                 |
| <b>Fregatidae</b>   | <i>Fregata ariel</i>          | Lesser Frigatebird         | MI                  | MI & MA | x               |      |      | Low                      | No nearby records. Primarily oceanic, may use coastal areas.  |
| <b>Glareolidae</b>  | <i>Glareola maldivarum</i>    | Oriental Pratincole        | MI                  | MI & MA | x               |      | x    | High                     | Recent nearby records. Suitable habitats occur in the PPA Area (tidal flats). May use areas that become seasonally inundated (tidal flats/claypan habitat).   |
| <b>Hirundinidae</b> | <i>Hirundo rustica</i>        | Barn Swallow               | MI                  | MI & MA | x               |      | x    | Medium                   | May use any habitats within Survey Area for foraging (particularly airspace where insects are abundant) (Near coastal areas).                                 |
| <b>Laridae</b>      | <i>Anous stolidus</i>         | Common Noddy (Brown Noddy) | MI                  | MI & MA | x               |      |      | Low                      | No suitable habitat (oceanic).  |
|                     | <i>Chlidonias leucopterus</i> | White-winged Black Tern    | MI                  | MI & MA | x               |      |      | High                     | Recent nearby records. Suitable habitats occur in the PPA Area (coastal areas). May use areas that become seasonally inundated (tidal flats/claypan habitat). |

| Family       | Scientific Name               | Common Name                             | Conservation Status |         | Database Search |      |      | Likelihood of Occurrence | Justification  |
|--------------|-------------------------------|---|---------------------|---------|-----------------|------|------|--------------------------|--|
|              |                               |   | State               | Federal | NM              | PMST | DBCA |                          |  |
| Laridae      | <i>Hydroprogne caspia</i>     | Caspian Tern                            | MI                  | MI & MA | x               | x    |      | High                     | Recent nearby records. Suitable habitats occur in the PPA Area (coastal areas, fresh to saline lakes, temporary wetlands). May use areas that become seasonally inundated (tidal flats/claypan habitat). |
|              | <i>Onychoprion anaethetus</i> | Bridled Tern                            | MI                  | MI & MA | x               |      |      | Low                      | No suitable habitat (oceanic).   |
|              | <i>Sterna dougallii</i>       | Roseate Tern                            | MI                  | MI & MA | x               | x    | x    | Medium                   | Nearby records. May use habitats in the PPA Area (coastal areas).  |
|              | <i>Sterna hirundo</i>         | Common Tern                             | MI                  | MI & MA |                 | x    | x    | Medium                   | Nearby records. May use habitats in the PPA Area (coastal areas, sandflats).   |
|              | <i>Sternula albifrons</i>     | White-shafted Little Tern (Little Tern) | MI                  | MI & MA |                 | x    | x    | High                     | Recent nearby records. Suitable habitats occur primarily in the PPA Area (coastal areas, lakes, estuaries, river mouths and deltas).   |
|              | <i>Thalasseus bergii</i>      | Crested Tern (Greater Crested Tern)     | MI                  | MI & MA | x               | x    | x    | High                     | Recent nearby records. Suitable habitats occur primarily in the PPA Area (coastal areas, saline lakes, coastal salt ponds).  |
| Motacillidae | <i>Motacilla cinerea</i>      | Grey Wagtail                            | MI                  | MI & MA | x               |      |      | Low                      | Most WA records are from the Kimberley region, no suitable habitat (banks of fast running freshwater habitats).  |

| Family                | Scientific Name                 | Common Name              | Conservation Status |         | Database Search |      |      | Likelihood of Occurrence | Justification  |
|-----------------------|---------------------------------|--------------------------|---------------------|---------|-----------------|------|------|--------------------------|--|
|                       |                                 |                          | State               | Federal | NM              | PMST | DBCA |                          |  |
| <b>Motacillidae</b>   | <i>Motacilla tschutschensis</i> | Yellow Wagtail           | MI                  | MI & MA |                 | x    |      | Low                      | Most WA records are from the Kimberley region, unlikely to occur this far south (usually found in damp grasslands).  |
| <b>Oceanitidae</b>    | <i>Oceanites oceanicus</i>      | Wilson's Storm Petrel    | MI                  | MI & MA | x               |      | x    | Low                      | No suitable habitat (oceanic).   |
| <b>Procellariidae</b> | <i>Ardenna carneipes</i>        | Flesh-footed Shearwater  | VU & MI             | MI & MA | x               |      |      | Low                      | No suitable habitat (oceanic).   |
|                       | <i>Ardenna pacifica</i>         | Wedge-tailed Shearwater  | MI                  | MI & MA | x               | x    | x    | Low                      | Recent nearby records, however, no suitable habitat (oceanic).   |
|                       | <i>Calonectris leucomelas</i>   | Streaked Shearwater      | MI                  | MI & MA | x               |      |      | Low                      | No suitable habitat (oceanic).   |
|                       | <i>Macronectes giganteus</i>    | Southern Giant Petrel    | MI                  | EN & MI | x               |      |      | Low                      | No suitable habitat (oceanic).   |
| <b>Psittacidae</b>    | <i>Pezoporus occidentalis</i>   | Night Parrot             | CR                  | EN      | x               |      | x    | Low                      | Outside known areas likely to occur, however cannot be ruled out due to cryptic nature and lack of certainty surrounding current distribution (spinifex, samphire).  |
| <b>Rostratulidae</b>  | <i>Rostratula australis</i>     | Australian Painted Snipe | EN                  | EN & MA | x               |      |      | Low                      | Outside known distribution   |
| <b>Scolopacidae</b>   | <i>Actitis hypoleucos</i>       | Common Sandpiper         | MI                  | MI & MA | x               |      |      | High                     | Recent nearby records. May use habitats in the PPA Area (mangroves, coastal wetlands). May use areas that become seasonally inundated (tidal flats/claypan habitat). |

| Family       | Scientific Name            | Common Name            | Conservation Status |              | Database Search |      |      | Likelihood of Occurrence | Justification  |
|--------------|----------------------------|------------------------|---------------------|--------------|-----------------|------|------|--------------------------|--|
|              |                            |                        | State               | Federal      | NM              | PMST | DBCA |                          |  |
| Scolopacidae | <i>Arenaria interpres</i>  | Ruddy Turnstone        | MI                  | MI & MA      | x               |      | x    | Medium                   | Records >10 km from Survey Area. May use habitats in the PPA Area (coastal habitats, tidal flats).   |
|              | <i>Calidris acuminata</i>  | Sharp-tailed Sandpiper | MI                  | MI & MA      | x               |      | x    | Medium                   | Records >10 km from Survey Area. May use habitats in the PPA Area (lagoons, fresh to saline wetlands). May use areas that become seasonally inundated (tidal flats/claypan habitat). |
|              | <i>Calidris alba</i>       | Sanderling             | MI                  | MI & MA      | x               |      | x    | Medium                   | Records >10 km from Survey Area. May use habitats in the PPA Area (tidal flats, ocean beaches).  |
|              | <i>Calidris canutus</i>    | Red Knot               | EN & MI             | EN, MI & MA  | x               | x    | x    | Low                      | No nearby records. Small potential to occur within PPA Area, although unlikely (tidal flats).  |
|              | <i>Calidris ferruginea</i> | Curlew Sandpiper       | CR & MI             | CR, MI, & MA | x               |      | x    | Medium                   | No nearby records. May use habitats in the PPA Area (intertidal mudflats) and areas that become seasonally inundated (tidal flats/claypan habitat).                                  |

| Family       | Scientific Name                  | Common Name                         | Conservation Status     |                              | Database Search |      |      | Likelihood of Occurrence | Justification  |
|--------------|----------------------------------|-------------------------------------|-------------------------|------------------------------|-----------------|------|------|--------------------------|--|
|              |                                  |                                     | State                   | Federal                      | NM              | PMST | DBCA |                          |  |
| Scolopacidae | <i>Calidris melanotos</i>        | Pectoral Sandpiper                  | MI                      | MI & MA                      | x               | x    | x    | High                     | Recent nearby records. Suitable habitats occur primarily in the PPA Area (mudflats, fresh to saline wetlands). May use areas that become seasonally inundated (tidal flats/claypan habitat). |
|              | <i>Calidris ruficollis</i>       | Red-necked Stint                    | MI                      | MI & MA                      | x               |      | x    | Medium                   | Nearby records. May use habitats in the PPA Area (tidal mudflats, salt marshes, beaches) and areas that become seasonally inundated (tidal flats/claypan habitat).                           |
|              | <i>Calidris tenuirostris</i>     | Great Knot                          | CR & MI                 | CR, MI, & MA                 | x               |      | x    | Low                      | No nearby records. Small potential to occur within PPA Area, although unlikely (tidal flats).  |
|              | <i>Limosa lapponica</i>          | Bar-tailed Godwit                   | MI (CR at subsp. level) | MI & MA (CR at subsp. level) | x               | x    | x    | Medium                   | Nearby records. May use habitats in the PPA Area (tidal flats).  |
|              | <i>Limosa limosa</i>             | Black-tailed Godwit                 | MI                      | MI & MA                      |                 |      | x    | Medium                   | Nearby records. May use habitats in the PPA Area (Shallow coastal wetlands, muddy substrates).   |
|              | <i>Numenius madagascariensis</i> | Far Eastern Curlew (Eastern Curlew) | CR & MI                 | CR, MI, & MA                 | x               |      | x    | Medium                   | Nearby records. May use habitats in the PPA Area (tidal flats).  |

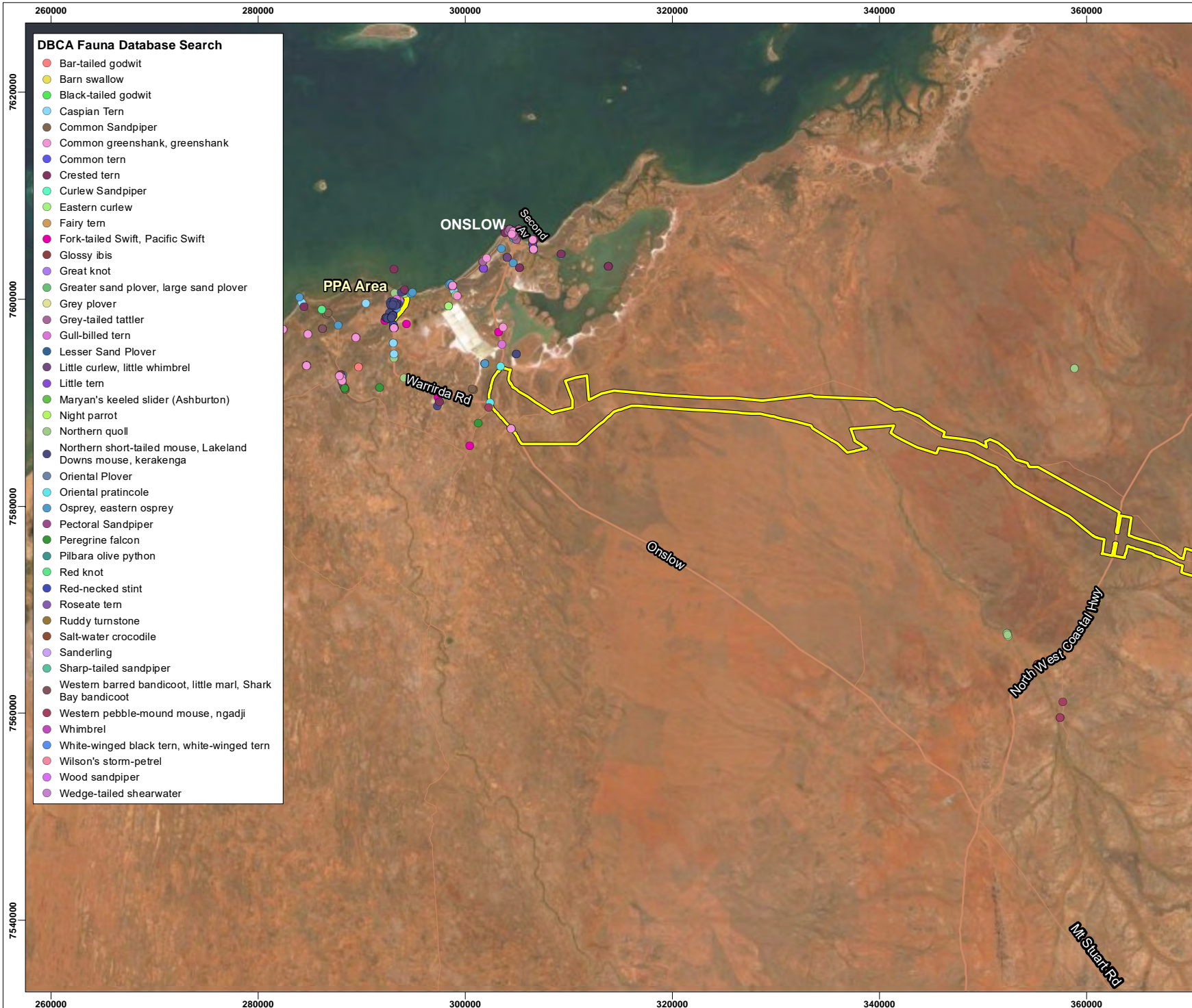


| Family                   | Scientific Name             | Common Name         | Conservation Status |         | Database Search |      |      | Likelihood of Occurrence | Justification  |
|--------------------------|-----------------------------|---------------------|---------------------|---------|-----------------|------|------|--------------------------|--|
|                          |                             |                     | State               | Federal | NM              | PMST | DBCA |                          |  |
| <b>Scolopacidae</b>      | <i>Numenius minutus</i>     | Little Curlew       | MI                  | MI & MA | x               |      | x    | Medium                   | Records >10 km. May use habitats in the PPA Area (tidal mudflats). May use areas that become seasonally inundated (tidal flats/claypan habitat).   |
|                          | <i>Numenius phaeopus</i>    | Whimbrel            | MI                  | MI & MA | x               |      | x    | Medium                   | Records >10 km. May use habitats in the PPA Area (tidal flats, mangroves).   |
|                          | <i>Tringa brevipes</i>      | Grey-tailed Tattler | MI & P4             | MI      | x               |      | x    | Medium                   | Nearby records. May use habitats in the PPA Area (tidal flats).  |
|                          | <i>Tringa glareola</i>      | Wood Sandpiper      | MI                  | MI & MA | x               |      | x    | High                     | Recent nearby records, likely to occur in tidal plan habitat (often freshwater wetlands, usually near shorelines with mud or shallow water).   |
|                          | <i>Tringa nebularia</i>     | Common Greenshank   | MI                  | MI & MA | x               | x    | x    | High                     | Recent nearby records. May use habitats in the PPA Area (mangroves, mudflats, clay, and muddy substrates). May use areas that become seasonally inundated (tidal flats/claypan habitat). |
| <b>Threskiornithidae</b> | <i>Plegadis falcinellus</i> | Glossy Ibis         | MI                  | MI & MA | x               |      | x    | Medium                   | May use areas that become seasonally inundated (tidal flats/claypan habitat, drainage lines).  |

| Family                | Scientific Name                | Common Name                        | Conservation Status |         | Database Search |      |     | Likelihood of Occurrence | Justification   |
|-----------------------|--------------------------------|------------------------------------|---------------------|---------|-----------------|------|-----|--------------------------|---|
|                       |                                |                                    | State               | Federal | NM              | PMST | DBC |                          |   |
| <b>Mammals</b>        |                                |                                    |                     |         |                 |      |     |                          |   |
| <b>Dasyuridae</b>     | <i>Dasyurus hallucatus</i>     | Northern Quoll                     | EN                  | EN      | x               |      | x   | High                     | Recent nearby records. Suitable habitats occur in the Survey Area (rocky ranges).   |
| <b>Megadermatidae</b> | <i>Macroderma gigas</i>        | Ghost Bat                          | VU                  | VU      | x               |      | x   | High                     | Recent nearby records. Suitable habitats occur in the Survey Area (rocky ranges). May use all habitats within Survey Area for hunting.  |
| <b>Muridae</b>        | <i>Leggadina lakedownensis</i> | Short-tailed Mouse                 | P4                  | -       | x               |      | x   | High                     | Recent nearby records. Preferred habitat occurs primarily within tidal flats/claypan habitat (typically hummock grasslands, known to occur in fringing vegetation of claypans).                             |
| <b>Muridae</b>        | <i>Pseudomys chapmani</i>      | Western Pebble-mound Mouse         | P4                  | -       | x               |      | x   | High                     | Recent nearby records. Suitable habitats occur in the Survey Area (rocky ranges).   |
| <b>Peramelidae</b>    | <i>Perameles bougainville</i>  | Shark Bay Bandicoot or Little Marl | EN                  | EN      | x               |      | x   | Low                      | Outside known distribution  |
| <b>Phalangeridae</b>  | <i>Trichosurus vulpecula</i>   | Common Brushtail Possum            | -                   | -       | x               |      |     | Medium                   | Locally significant due to rarity in Pilbara and taxonomic doubt surrounding Pilbara population. Recent records in similar habitat. Drainage lines constitute preferred habitat (open Eucalyptus woodland). |

| Family                  | Scientific Name                               | Common Name              | Conservation Status |         | Database Search |      |      | Likelihood of Occurrence | Justification  |
|-------------------------|---|--------------------------|---------------------|---------|-----------------|------|------|--------------------------|--|
|                         |   |                          | State               | Federal | NM              | PMST | DBCA |                          |  |
| <b>Rhinonycteridae</b>  | <i>Rhinonycteris aurantia</i><br>Pilbara form | Pilbara Leaf-nosed Bat   | VU                  | VU      | x               | x    | x    | High                     | Recent nearby records. Suitable habitats occur in the Survey Area (gorges, grasslands).                              |
| <b>Reptiles</b>         |   |                          |                     |         |                 |      |      |                          |  |
| <b>Carphodactylidae</b> | <i>Underwoodisaurus seorsus</i>               | Pilbara Barking Gecko    | P2                  | -       |                 |      |      | Low                      | Outside known distribution   |
| <b>Pythonidae</b>       | <i>Liasis olivaceus barroni</i>               | Pilbara Olive Python     | VU                  | VU      | x               | x    | x    | High                     | Recent nearby records. Suitable habitats occur in the Survey Area (watercourses through rocky areas).                |
| <b>Scincidae</b>        | <i>Lerista planiventralis maryani</i>         | Maryan's Keeled Slider   | P1                  | -       | x               |      | x    | Medium                   | Historical nearby record. May use habitats in the PPA Area (coastal sandy areas between Onslow and Barradale).       |
|                         | <i>Notoscincus butleri</i>                    | Lined Soil-crevice Skink | P4                  | -       |                 |      | x    | Low                      | Outside known distribution.  |
| <b>Typhlopidae</b>      | <i>Anilius ganei</i>                          | Gane's Blind Snake       | P1                  | -       |                 |      |      | Low                      | No nearby records. Known from areas between Newman and Pannawonica. May be associated with moist gorges and gullies. |





**DBCFA Fauna Database Search**

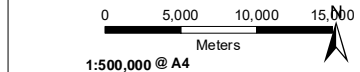
- Bar-tailed godwit
- Barn swallow
- Black-tailed godwit
- Caspian Tern
- Common Sandpiper
- Common greenshank, greenshank
- Common tern
- Crested tern
- Curlew Sandpiper
- Eastern curlew
- Fairy tern
- Fork-tailed Swift, Pacific Swift
- Glossy ibis
- Great knot
- Greater sand plover, large sand plover
- Grey plover
- Grey-tailed tattler
- Gull-billed tern
- Lesser Sand Plover
- Little curlew, little whimbrel
- Little tern
- Maryan's keeled slider (Ashburton)
- Night parrot
- Northern quoll
- Northern short-tailed mouse, Lakeland Downs mouse, kerakenga
- Oriental Plover
- Oriental pratincole
- Osprey, eastern osprey
- Pectoral Sandpiper
- Peregrine falcon
- Pilbara olive python
- Red knot
- Red-necked stint
- Roseate tern
- Ruddy turnstone
- Salt-water crocodile
- Sanderling
- Sharp-tailed sandpiper
- Western barred bandicoot, little marl, Shark Bay bandicoot
- Western pebble-mound mouse, ngadji
- Whimbrel
- White-winged black tern, white-winged tern
- Wilson's storm-petrel
- Wood sandpiper
- Wedge-tailed shearwater

**Legend**

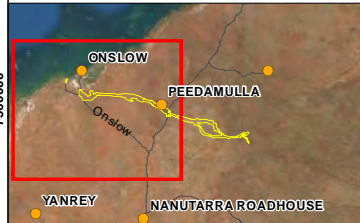
- State Road
- Local Roads
- ▭ Survey Area

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS  
 - LOCALITY MAP SOURCED LANDGATE 2020  
 - OTHER DATA SOURCED LANDGATE 2020  
 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2020  
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**LOCALITY MAP**



|                               |                           |
|-------------------------------|---------------------------|
| <b>PROJECT ID</b><br>4441 007 | <b>DATE</b><br>27/08/2021 |
|-------------------------------|---------------------------|

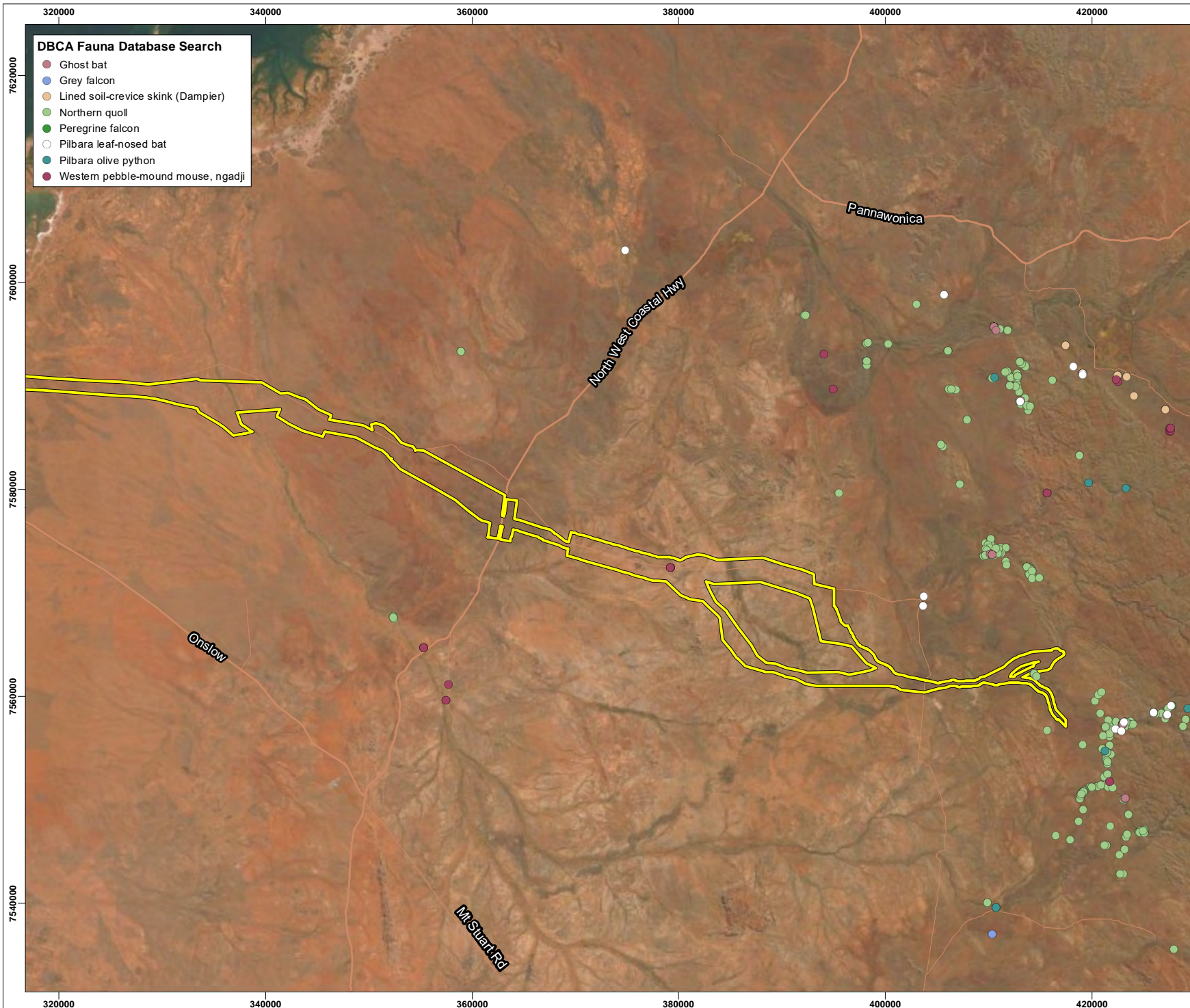
**HORIZONTAL DATUM AND PROJECTION**  
 GDA2020 MGA Zone 50

| CREATED | CHECKED | APPROVED | REVISION |
|---------|---------|----------|----------|
| LFV     | EW      | MS       | 03       |

**Mineral Resources Limited**  
**Ashburton Infrastructure Project**  
**Vertebrate Fauna and SRE Assessment**

**Figure 11a**  
**DBCFA Threatened and Priority Fauna**





**DBCA Fauna Database Search**

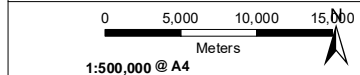
- Ghost bat
- Grey falcon
- Lined soil-crevice skink (Dampier)
- Northern quoll
- Peregrine falcon
- Pilbara leaf-nosed bat
- Pilbara olive python
- Western pebble-mound mouse, ngadji

**Legend**

- State Road
- Local Roads
- ▭ Survey Area

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS  
 - LOCALITY MAP SOURCED LANDGATE 2020  
 - OTHER DATA SOURCED LANDGATE 2020  
 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2020  
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**LOCALITY MAP**



|                               |                           |
|-------------------------------|---------------------------|
| <b>PROJECT ID</b><br>4441 007 | <b>DATE</b><br>27/08/2021 |
|-------------------------------|---------------------------|

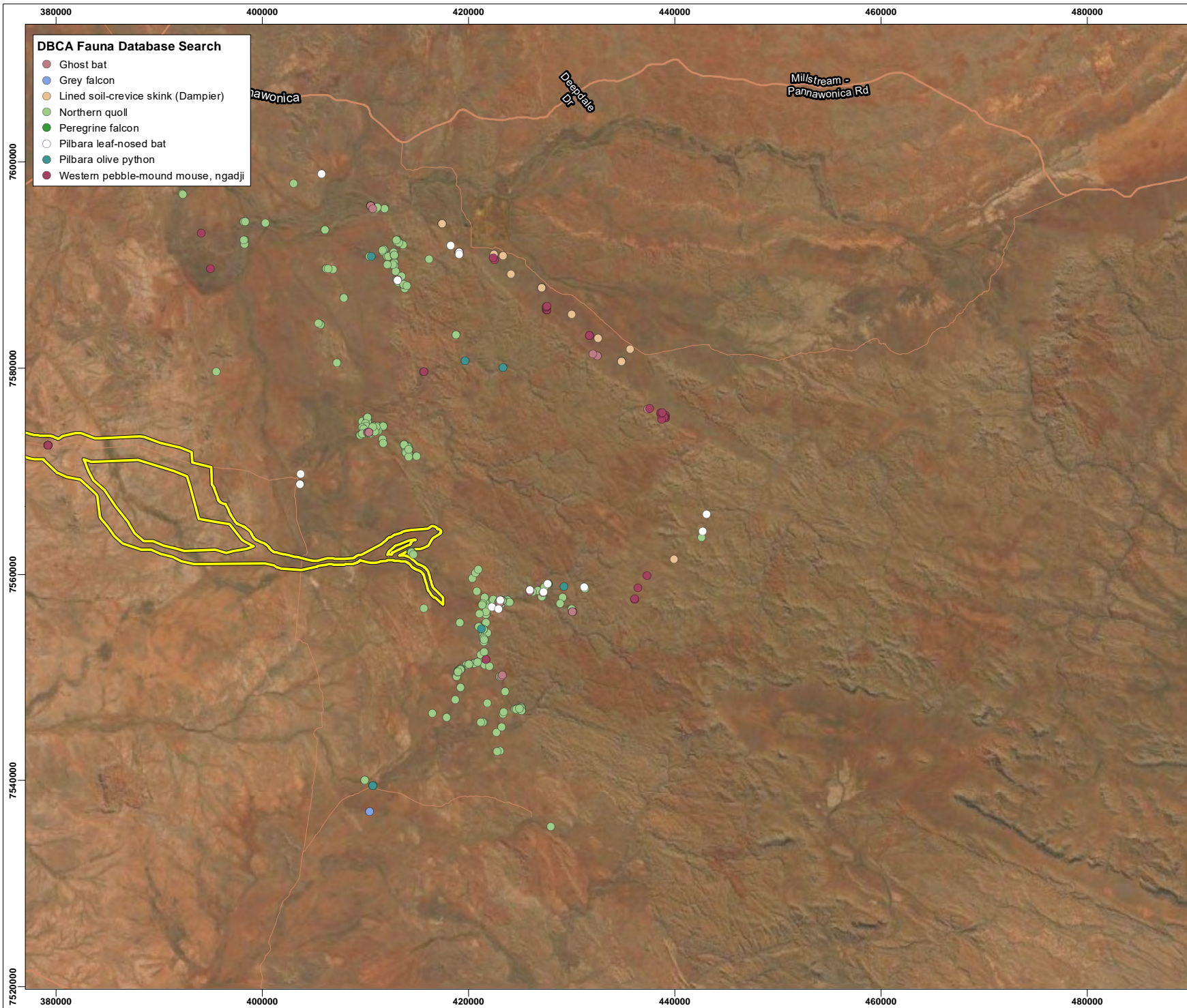
**HORIZONTAL DATUM AND PROJECTION**  
 GDA2020 MGA Zone 50

|                       |                      |                       |                       |
|-----------------------|----------------------|-----------------------|-----------------------|
| <b>CREATED</b><br>LFV | <b>CHECKED</b><br>EW | <b>APPROVED</b><br>MS | <b>REVISION</b><br>03 |
|-----------------------|----------------------|-----------------------|-----------------------|

**Mineral Resources Limited**  
**Ashburton Infrastructure Project**  
**Vertebrate Fauna and**  
**SRE Assessment**

**Figure 11b**  
**DBCA Threatened and Priority Fauna**





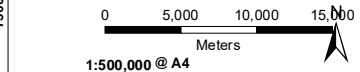
- DBCA Fauna Database Search**
- Ghost bat
  - Grey falcon
  - Lined soil-crevice skink (Dampier)
  - Northern quoll
  - Peregrine falcon
  - Pilbara leaf-nosed bat
  - Pilbara olive python
  - Western pebble-mound mouse, ngadji

- Legend**
- State Road
  - Local Roads
  - ▭ Survey Area

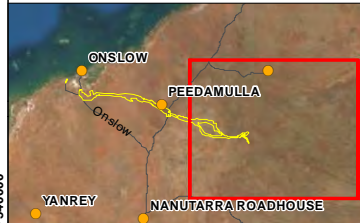
- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS  
 - LOCALITY MAP SOURCED LANDGATE 2020  
 - OTHER DATA SOURCED LANDGATE 2020  
 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2020  
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**LOCALITY MAP**



|                               |                           |
|-------------------------------|---------------------------|
| <b>PROJECT ID</b><br>4441 007 | <b>DATE</b><br>27/08/2021 |
|-------------------------------|---------------------------|

**HORIZONTAL DATUM AND PROJECTION**  
 GDA2020 MGA Zone 50

|                       |                      |                       |                       |
|-----------------------|----------------------|-----------------------|-----------------------|
| <b>CREATED</b><br>LFV | <b>CHECKED</b><br>EW | <b>APPROVED</b><br>MS | <b>REVISION</b><br>03 |
|-----------------------|----------------------|-----------------------|-----------------------|

**Mineral Resources Limited**  
**Ashburton Infrastructure Project**  
**Vertebrate Fauna and**  
**SRE Assessment**

**Figure 11c**  
**DBCA Threatened and Priority Fauna**

#### 4.1.2 Field Surveys

##### 4.1.2.1 Fauna Habitat

Ten broad fauna habitats (excluding cleared areas) were identified and mapped within the Survey Area.

Habitat condition varied throughout the Survey Area, with the most prolific disturbance being cattle grazing and trampling. Other disturbances included historical clearing for roads, infrastructure and access tracks, weeds, frequent burning, and rubbish.

A description, extent within the Survey Area, and a representative photo is provided for each fauna habitat (Table 24). Small discrepancies in fauna habitat extents (i.e., not adding up to the exact area extent of the Survey Area) are due to rounding. Fauna habitat mapping is presented in Figure 12 and site sheets for each habitat assessment are shown in Appendix D.



**Table 24: Fauna habitat extents and descriptions**



| Habitat | Extent within Survey Area |         | Habitat description  | Representative photo |
|---------|---------------------------|---------|--|----------------------|
|         | Area (ha)                 | Fauna % |  |                      |
| Plain   | 8,224                     | 27.20   | <p><i>Triodia</i> hummock grassland on primarily sandy loam and sandy clay plain with a sparse overstorey of mixed shrubs dominated by <i>Acacia</i> spp. and scattered <i>Corymbia</i> sp. Abundant <i>Triodia</i> hummocks found within this habitat type provide an important source of shelter, refuge and nesting opportunities for small fauna taxa including birds, mammals, and reptiles. The sandy substrate is suitable for digging and burrowing. Cattle degradation was observed, with the highest levels of degradation occurring towards the west of the Survey Area near Onslow Road. Conservation significant fauna taxa are not likely to rely on this habitat type within the Survey Area.</p> |                      |

| Habitat               | Extent within Survey Area |         | Habitat description   | Representative photo |
|-----------------------|---------------------------|---------|---|----------------------|
|                       | Area (ha)                 | Fauna % |   |                      |
| Stony plain           | 6,624                     | 21.91   | <p><i>Triodia</i> hummock grassland on stony plain with a sparse overstorey of mixed shrubs dominated by <i>Acacia</i> spp. with occasional <i>Corymbia</i> sp. Abundant <i>Triodia</i> hummocks found within this habitat type provide an important source of shelter, refuge and nesting opportunities for small fauna taxa including birds, mammals, and reptiles. The stony substrate is not as suitable for burrowing taxa as the sandy substrates of the plain habitat type described above. Some areas were undulating, forming small hills and gentle slopes. Cattle degradation was observed, with the highest levels of degradation occurring near Red Hill Station towards the west of the Survey Area. The conservation significant Western Pebble-mound Mouse may rely on this habitat type.</p> |                      |
| Sand dunes and swales | 3,149                     | 10.42   | <p>Open <i>Triodia</i> grasslands and low, open <i>Acacia</i> shrublands on a soft sandy substrate which is preferred habitat for many burrowing taxa. Landform is comprised of alternating dunes and swales. Key microhabitats include termite mounds and hummocks. Cattle degradation was observed.</p>   |                      |

| Habitat                           | Extent within Survey Area |         | Habitat description  | Representative photo |
|-----------------------------------|---------------------------|---------|--|----------------------|
|                                   | Area (ha)                 | Fauna % |  |                      |
| Drainage line/river/creek (minor) | 1,911                     | 6.32    | Dense overstorey vegetation made up primarily of tall <i>Acacia</i> spp., occasionally with <i>Eucalyptus</i> sp. and <i>Corymbia</i> sp. Ground cover is typically <i>Triodia</i> hummock grassland or tussock grassland on substrates ranging from sand to sandy clay, with an assortment of river stones. Minor drainage lines have a lower presence of gullying and water erosion, permanent or semi-permanent pooling of water and typically have smaller trees than major drainage lines. The overstorey vegetation provides valuable nesting and foraging habitat for birds, including conservation significant taxa such as the Grey Falcon and Peregrine Falcon, albeit less value than major drainage lines due to the lower density of large trees. Key microhabitats include woody debris, leaf litter, peeling bark, hollow trees and logs, and hummock grasslands provide refuge, shelter, and foraging opportunities for a wide variety of fauna taxa. Minor drainage lines may be seasonally inundated. This habitat was extensively degraded by cattle in many areas. |                      |



| Habitat                | Extent within Survey Area |         | Habitat description   | Representative photo |
|------------------------|---------------------------|---------|---|----------------------|
|                        | Area (ha)                 | Fauna % |   |                      |
| Tidal flats            | 1,716                     | 5.68    | Sparse, low <i>Tecticornia</i> shrubland and <i>Triodia</i> grassland. Sparse vegetation is of limited value as shelter for fauna taxa, however abundant large termite mounds provide shelter for a range of fauna taxa. The PPA area contains scattered Grey Mangroves <i>Avicennia marina</i> , which were not present elsewhere in the Survey Area. This section of the Survey Area lacked termite mounds or other suitable refuge for small mammals and reptiles. The conservation significant Short-tailed Mouse is known to use these habitats.   |                      |
| Stony hills and slopes | 1,140                     | 3.79    | Stony hills and slopes, often with thin soils over shallow bedrock. Vegetation consists of sparse <i>Triodia</i> hummock grasslands with scattered <i>Corymbia</i> sp., and <i>Acacia</i> sp. Microhabitats include <i>Triodia</i> hummocks which provide shelter for a variety of taxa. The conservation significant Western Pebble-mound mouse may rely on this habitat type. When adjacent mesas and breakaway habitat, stony hills and slopes will provide important foraging and dispersal habitat for conservation significant taxa such as the Northern Quoll and, towards the east of the Survey Area near water sources, the Pilbara Olive Python. |                      |

| Habitat                           | Extent within Survey Area |         | Habitat description   | Representative photo   |
|-----------------------------------|---------------------------|---------|---|--|
|                                   | Area (ha)                 | Fauna % |   |  |
| Mulga woodland                    | 369                       | 1.22    | Mulga ( <i>Acacia aptaneura</i> ) woodland over a sparse <i>Triodia</i> grassland on a sandy clay plain with crabholes (holes formed by swelling and contracting clay soils). The most abundant microhabitats in addition to crabholes were woody debris and peeling bark, which provide important shelter and refuge primarily for small reptiles. Cattle degradation was observed. Conservation significant vertebrate fauna taxa are not likely to depend on this habitat type within the Survey Area.   |   |
| Drainage line/river/creek (major) | 176                       | 0.58    | Dense overstorey vegetation made up primarily of <i>Eucalyptus</i> sp. and <i>Corymbia</i> sp., and tall <i>Acacia</i> spp. Ground cover is typically <i>Triodia</i> hummock grassland or tussock grassland on substrates ranging from sand to sandy clay, with an assortment of river stones. Major drainage lines had a greater presence of gullying and water erosion, permanent or semi-permanent pooling of water, and more large, hollow-bearing Eucalypts. The overstorey vegetation provides valuable nesting and foraging habitat for birds, including conservation significant taxa such as the Grey Falcon and Peregrine Falcon. Key microhabitats include woody debris, leaf litter, peeling bark, hollow trees and logs, and hummocks grasslands provide refuge, shelter, and foraging opportunities for a wide variety for fauna taxa. Major drainage lines, rivers and creeks will usually be seasonally inundated. This habitat was extensively degraded by cattle in many areas. |  |



| Habitat              | Extent within Survey Area |         | Habitat description   | Representative photo |
|----------------------|---------------------------|---------|---|----------------------|
|                      | Area (ha)                 | Fauna % |   |                      |
| Mesas and Breakaways | 48                        | 0.13    | <p>Mesas and breakaways are primarily made up of ironstone outcropping with sparse <i>Triodia</i> hummocks and scattered <i>Corymbia</i> sp., <i>Acacia</i> sp. and <i>Ficus</i> sp. Breakaways and ridges contain important microhabitats including rock crevices and overhangs. Margins of habitat are characterised by scree slopes leading into stony plains. Habitat is in excellent condition. Several conservation significant fauna taxa may rely on this habitat type, including Northern Quolls and, towards the east of the Survey Area where water sources were present, Pilbara Olive Pythons. Rock overhangs and crevices may also be used by Ghost Bats and Pilbara Leaf-nosed Bats, however deep, humid caves required for maternity roosts were not observed within the Survey Area.</p> |                      |
| Claypan              | 42                        | 0.14    | <p>Claypans are seasonally inundated after rainfall events and will provide seasonal habitat for wetland-dependent taxa, including migratory birds. This habitat was extensively degraded by cattle in many areas. The conservation significant Short-tailed Mouse is known to use the fringes of these habitats.</p>   |                      |



| Habitat           | Extent within Survey Area |               | Habitat description   | Representative photo |
|-------------------|---------------------------|---------------|---|----------------------|
|                   | Area (ha)                 | Fauna %       |   |                      |
| Cleared           | 176                       | 0.58          | Areas that have been cleared and do not contain vegetation. These areas generally do not provide substantial habitat value to fauna taxa. | N/A                  |
| Not assessed      | 6,662                     | 22.03         | Not assessed due to access limitations  | N/A                  |
| <b>Total Area</b> | <b>30,237</b>             | <b>100.00</b> |   |                      |

292000

294000

296000

7600000

7600000

7598000

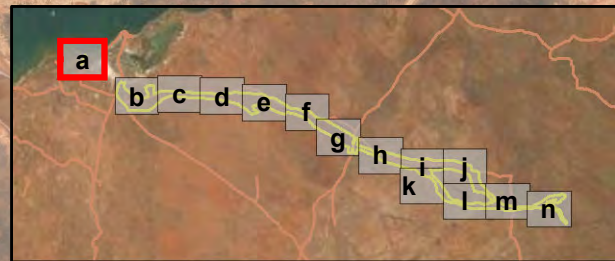
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Warrirda Rd



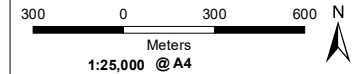
**Legend**

- Roads
- Survey Area

**Fauna Habitat**

- Sand dunes and swales
- Tidal flats (with scattered mangroves)
- Cleared

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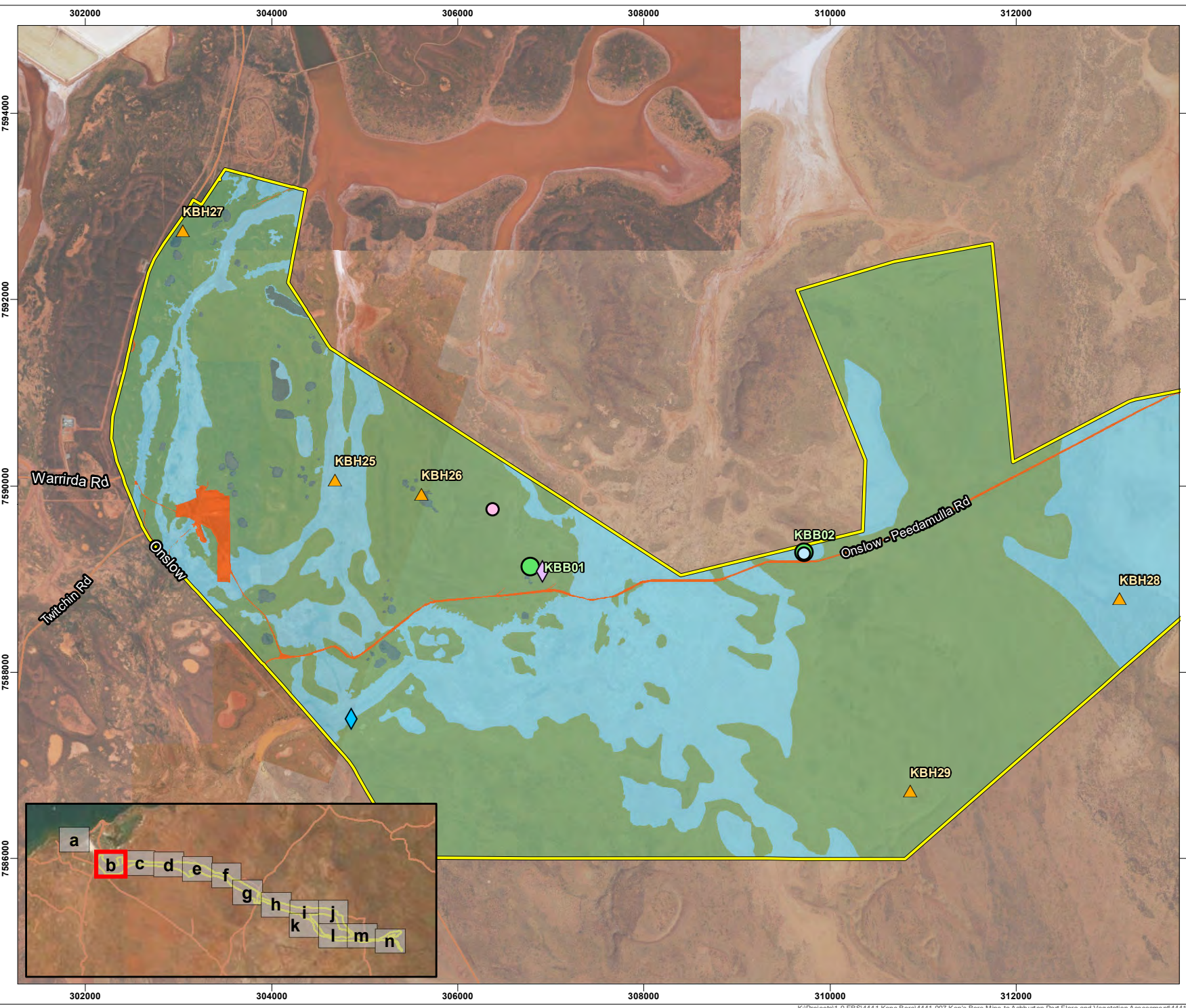
HORIZONTAL DATUM AND PROJECTION  
 GDA 1994 MGA Zone 50

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| LFV     | EW      | SW       | 03       |

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 Ashburton Infrastructure Project  
**Vertebrate Fauna and  
 SRE Assessment**  
**Figure 12a**  
 Fauna Habitats and  
 Conservation Significant Fauna



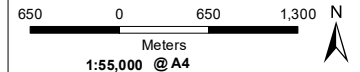
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### Legend

- Roads
- Survey Area
- Fauna Survey Sites**
  - ARU - audible calls
  - ARU - ultrasonic calls
  - Baseline trap site
  - Camera trap
  - Habitat assessment
- Conservation Significant Fauna**
  - Possible Northern Quoll
- Fauna Habitat**
  - Claypan
  - Sand dunes and swales
  - Tidal flats
  - Cleared

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**LOCALITY MAP**



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| HORIZONTAL DATUM AND PROJECTION<br>GDA 1994 MGA Zone 50 |               |                    |                |
| CREATED<br>LFV  | CHECKED<br>EW | APPROVED<br>SW     | REVISION<br>03 |

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**Vertebrate Fauna and**  
**SRE Assessment**  
**Figure 12b**  
**Fauna Habitats and**  
**Conservation Significant Fauna**



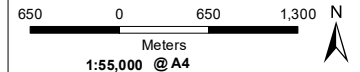
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### Legend

- Roads
- Survey Area
- Fauna Survey Sites**
- Baseline trap site
- Camera trap
- ▲ Habitat assessment
- Fauna Habitat**
- Plain
- Sand dunes and swales
- Tidal flats
- Cleared

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**HORIZONTAL DATUM AND PROJECTION**  
GDA 1994 MGA Zone 50

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**Ashburton Infrastructure Project**  
**Vertebrate Fauna and**  
**SRE Assessment**  
**Figure 12c**  
**Fauna Habitats and**  
**Conservation Significant Fauna**



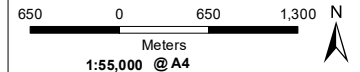
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**Legend**

- Roads
- Survey Area
- Fauna Survey Sites**
- Baseline trap site
- Camera trap
- Habitat assessment
- Fauna Habitat**
- Drainage line/river/creek - minor
- Plain
- Cleared

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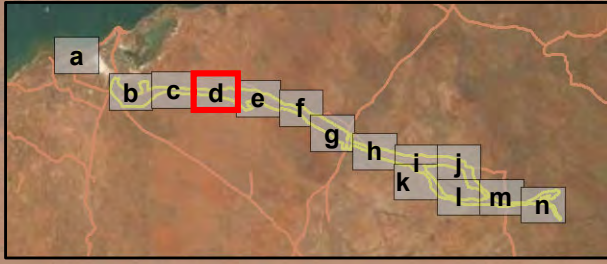


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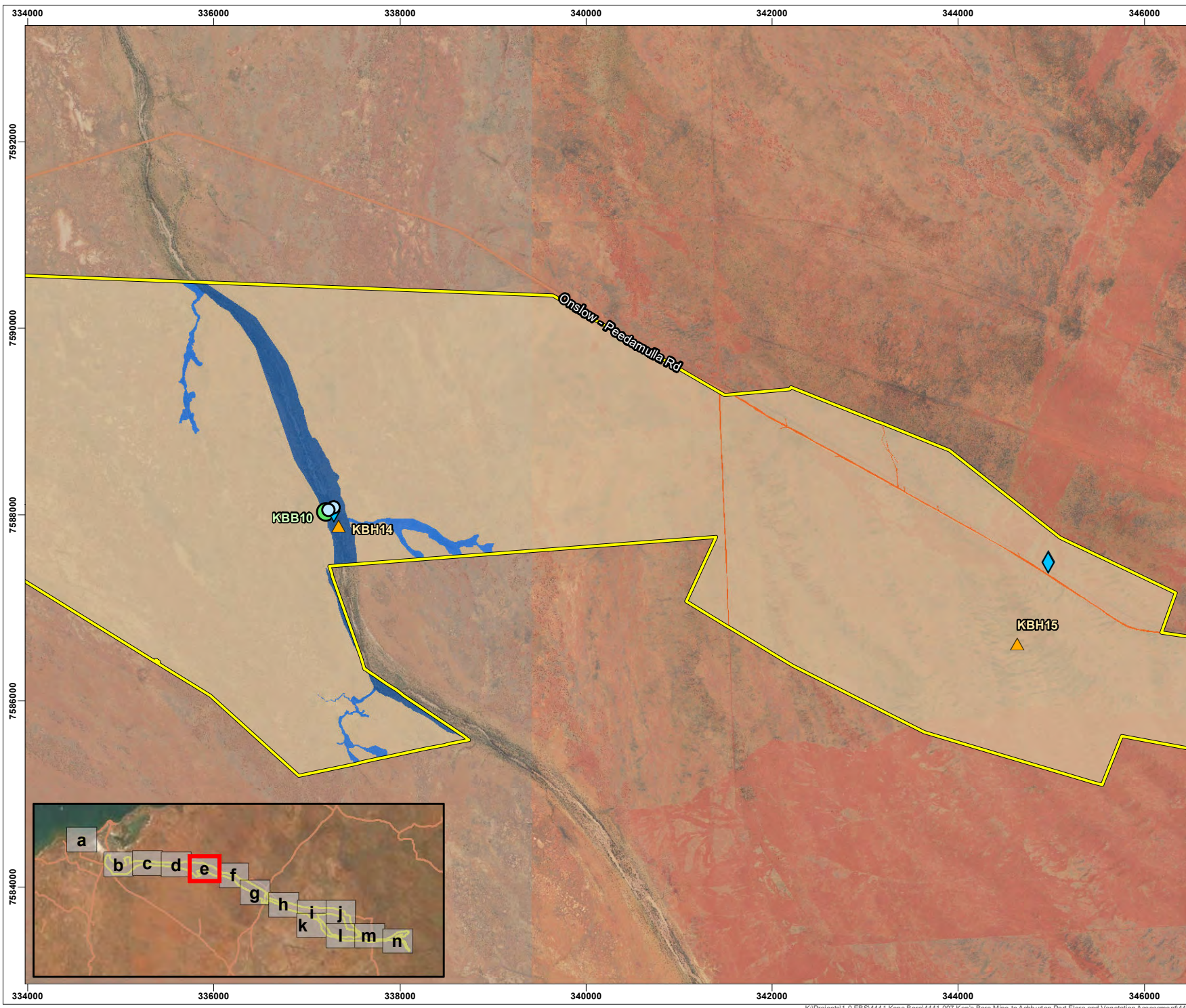
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**Ashburton Infrastructure Project**  
**Vertebrate Fauna and**  
**SRE Assessment**  
**Figure 12d**  
**Fauna Habitats and**  
**Conservation Significant Fauna**



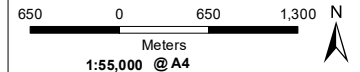


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- ### Legend
- Roads
  - Survey Area
  - Fauna Survey Sites**
  - ARU - audible calls
  - ARU - ultrasonic calls
  - Baseline trap site
  - Camera trap
  - Habitat assessment
  - Fauna Habitat**
  - Drainage line/river/creek - major
  - Drainage line/river/creek - minor
  - Plain
  - Cleared

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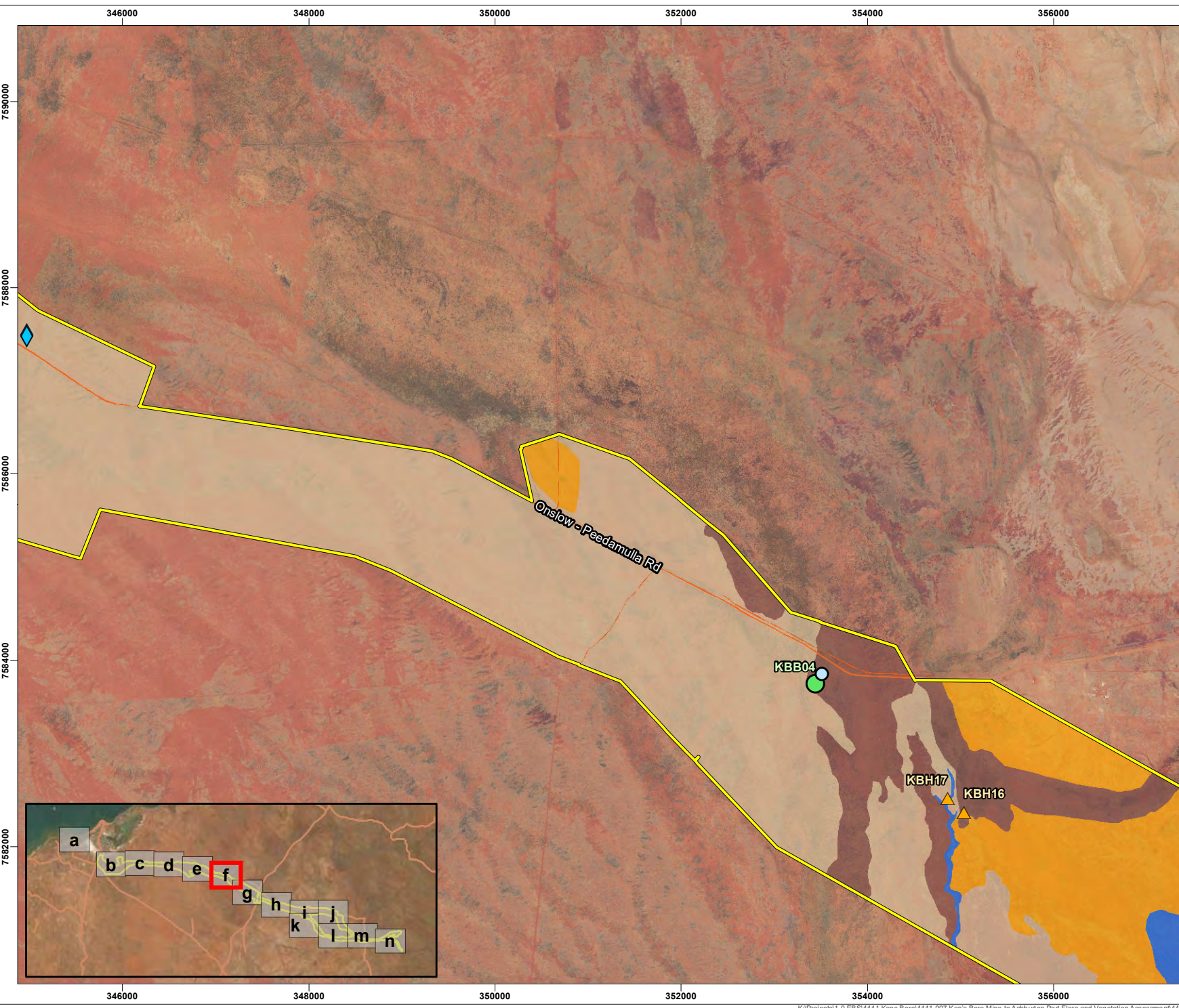


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**Vertebrate Fauna and  
 SRE Assessment**  
**Figure 12e**  
**Fauna Habitats and  
 Conservation Significant Fauna**

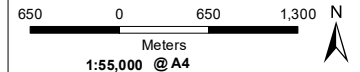


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- ### Legend
- Roads
  - Survey Area
  - Fauna Survey Sites**
  - ARU - audible calls
  - ARU - ultrasonic calls
  - Baseline trap site
  - Camera trap
  - Habitat assessment
  - Fauna Habitat**
  - Drainage line/river/creek - minor
  - Mulga woodland
  - Plain
  - Stony plain
  - Cleared

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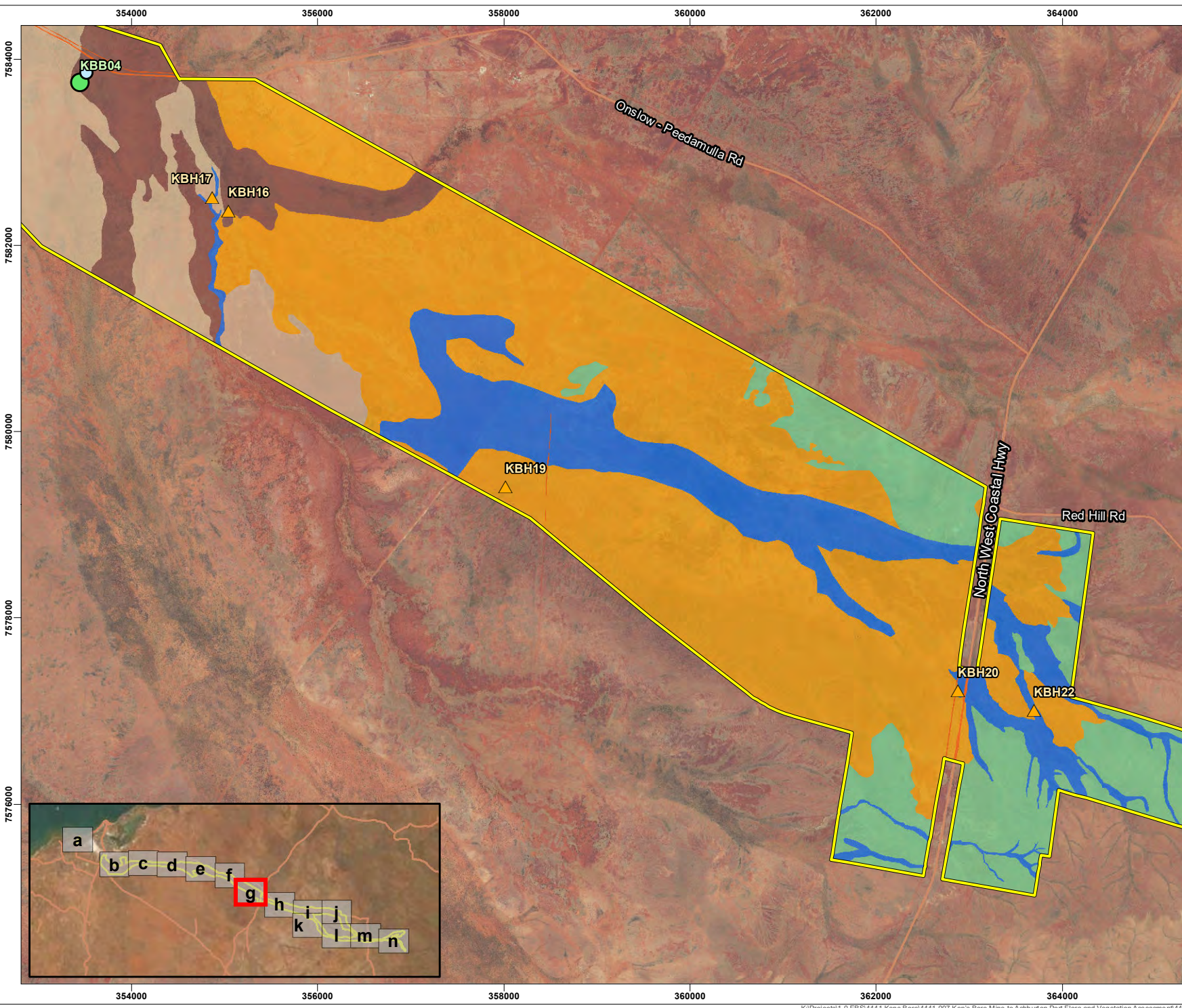


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**Vertebrate Fauna and**  
**SRE Assessment**  
**Figure 12f**  
**Fauna Habitats and**  
**Conservation Significant Fauna**



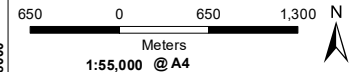
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### Legend

- Roads
- Survey Area
- Fauna Survey Sites**
  - Baseline trap site
  - Camera trap
  - Habitat assessment
- Fauna Habitat**
  - Drainage line/river/creek - minor
  - Mulga woodland
  - Plain
  - Stony hills and slopes
  - Stony plain
  - Cleared

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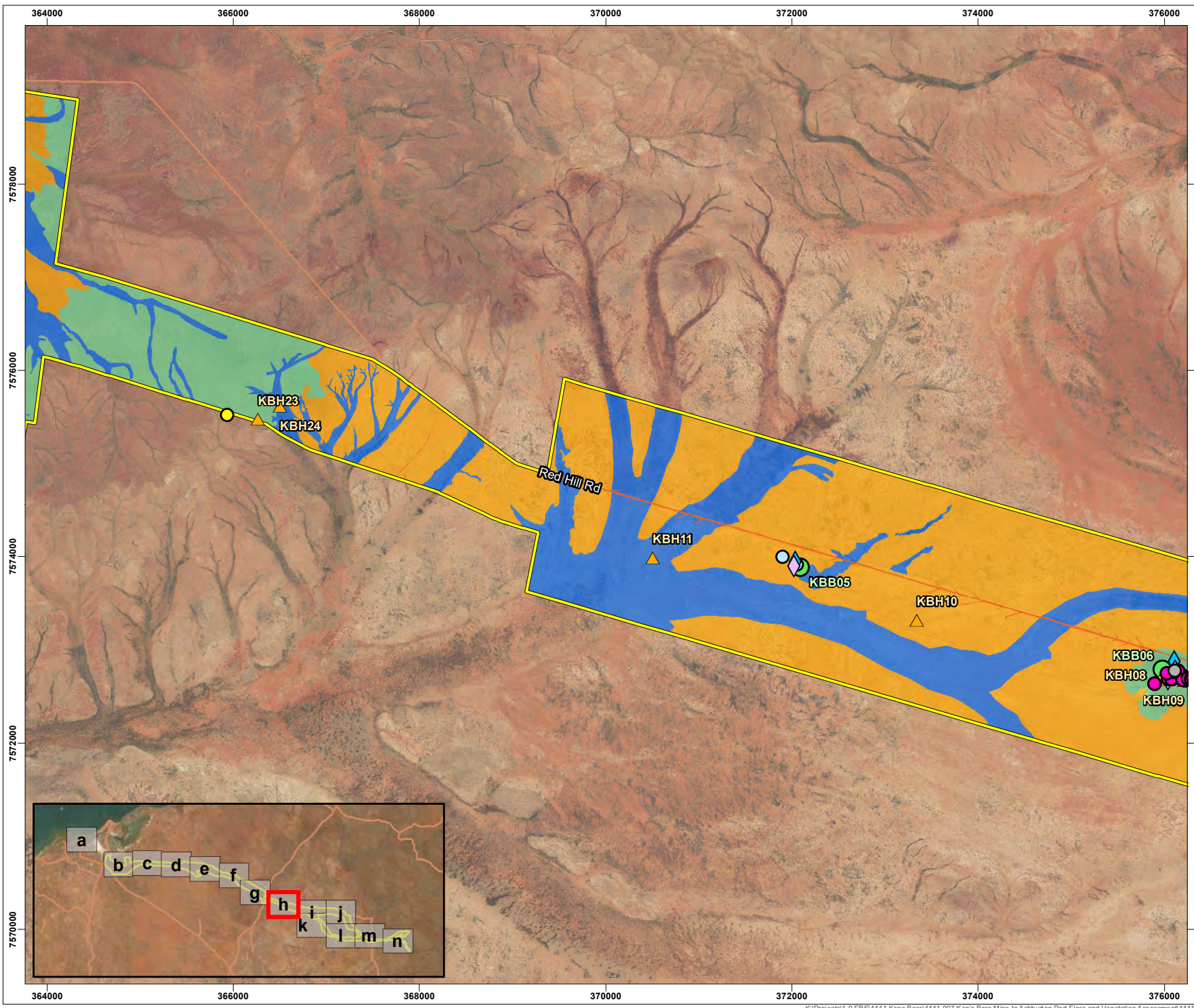
HORIZONTAL DATUM AND PROJECTION  
 GDA 1994 MGA Zone 50

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|---------|---------|----------|----------|
| LFV     | EW      | SW       | 03       |

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 Vertebrate Fauna and  
 SRE Assessment  
**Figure 12g**  
 Fauna Habitats and  
 Conservation Significant Fauna



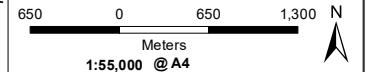
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### Legend

- Roads
- Survey Area
- Fauna Survey Sites**
- ◆ ARU - audible calls
- ◇ ARU - ultrasonic calls
- Baseline trap site
- Camera trap
- ▲ Habitat assessment
- Targeted trap site
- Conservation Significant Fauna**
- Possible Ghost Bat
- Northern Quoll
- Western Pebble-mound Mouse
- Fauna Habitat**
- Drainage line/river/creek - minor
- Mesas and breakaways (confirmed Northern Quoll habitat)
- Stony hills and slopes
- Stony plain
- Cleared

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**LOCALITY MAP**



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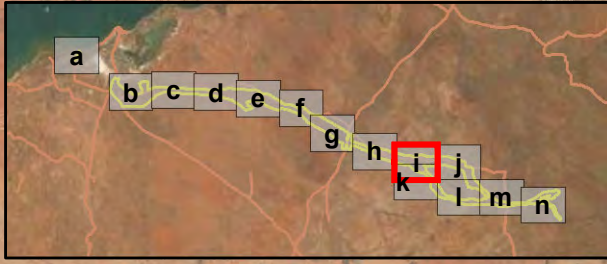
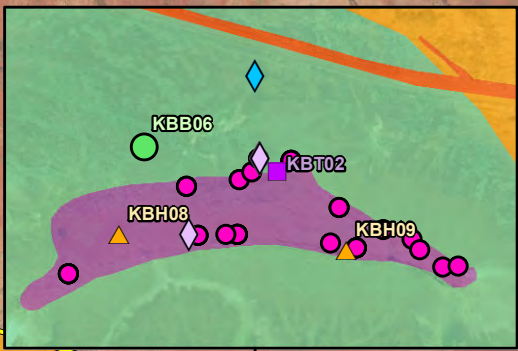
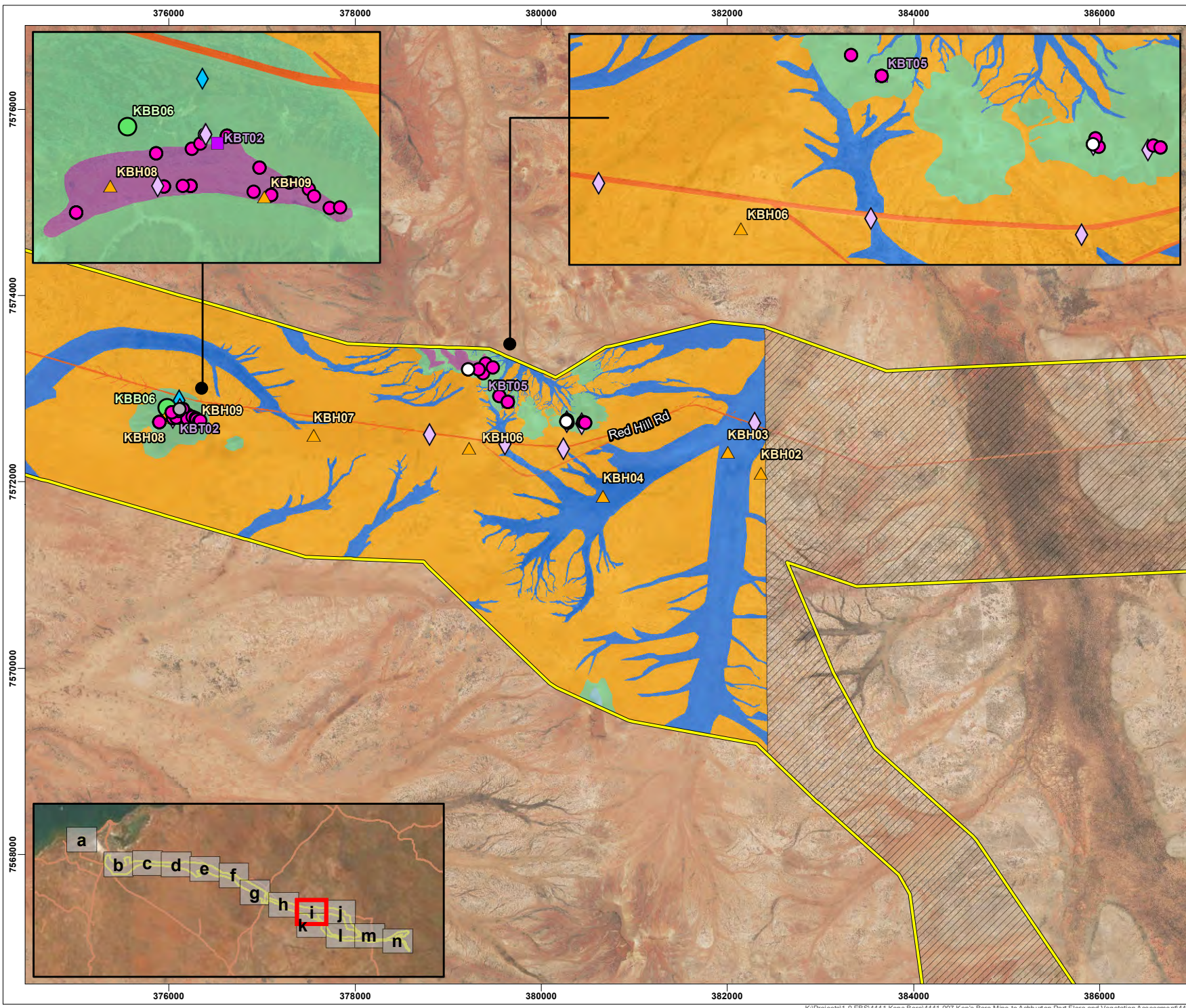
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|---------|---------|----------|----------|
| LFV     | EW      | SW       | 03       |

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**Vertebrate Fauna and SRE Assessment**  
**Figure 12h**  
**Fauna Habitats and Conservation Significant Fauna**



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### Legend

- Roads
- Survey Area

### Fauna Survey Sites

- ARU - audible calls
- ARU - ultrasonic calls
- Baseline trap site
- Habitat assessment
- Targeted trap site

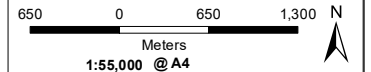
### Conservation Significant Fauna

- Ghost Bat
- Possible Ghost Bat
- Northern Quoll
- Pilbara Leaf-nosed bat

### Fauna Habitat

- Drainage line/river/creek - minor
- Mesas and breakaways (confirmed Northern Quoll habitat)
- Mesas and breakaways (potential Northern Quoll habitat)
- Stony hills and slopes
- Stony plain
- Cleared
- Not assessed

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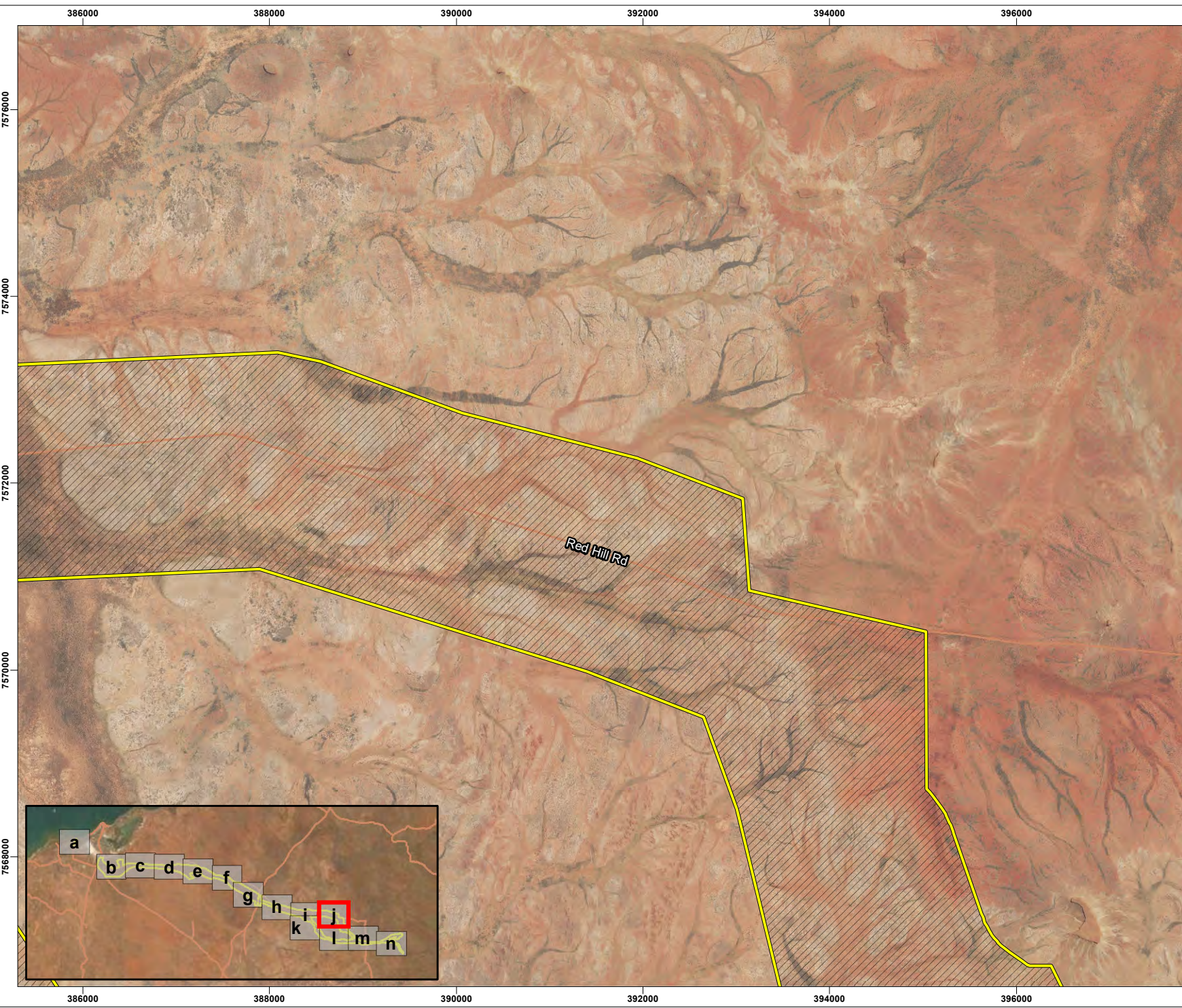


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 Vertebrate Fauna and  
 SRE Assessment  
**Figure 12i**  
 Fauna Habitats and  
 Conservation Significant Fauna



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**Legend**

- Roads
- Survey Area
- Fauna Habitat**
  - Not assessed

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**LOCALITY MAP**



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HORIZONTAL DATUM AND PROJECTION  
 GDA 1994 MGA Zone 50

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**Vertebrate Fauna and  
 SRE Assessment**  
**Figure 12j**  
**Fauna Habitats and  
 Conservation Significant Fauna**



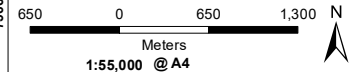
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**Legend**

- Roads
- Survey Area
- Fauna Survey Sites**
- Habitat assessment
- Fauna Habitat**
- Drainage line/river/creek - minor
- Mesas and breakaways (potential Northern Quoll habitat)
- Stony hills and slopes
- Stony plain
- Not assessed

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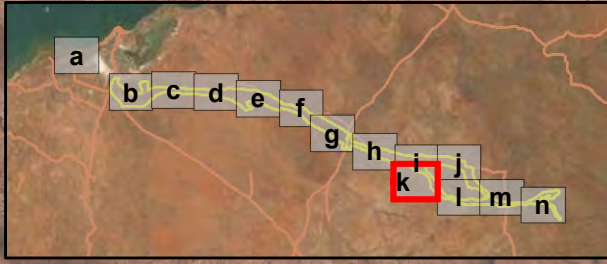


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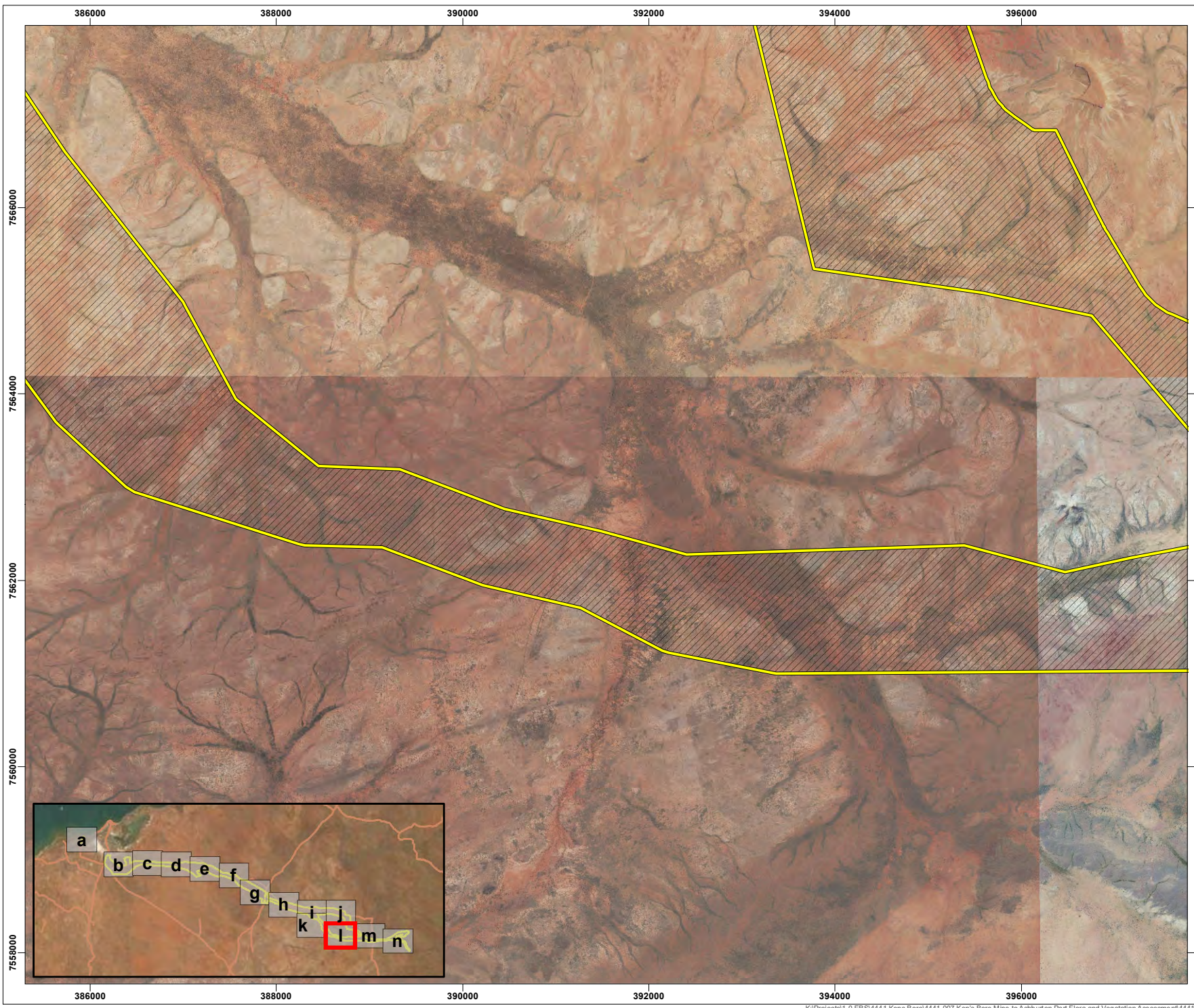
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**SRE Assessment**  
**Figure 12k**  
**Fauna Habitats and**  
**Conservation Significant Fauna**





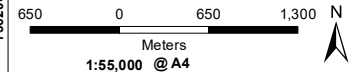
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**Legend**

- Roads
- Survey Area
- Fauna Habitat**
- Not assessed

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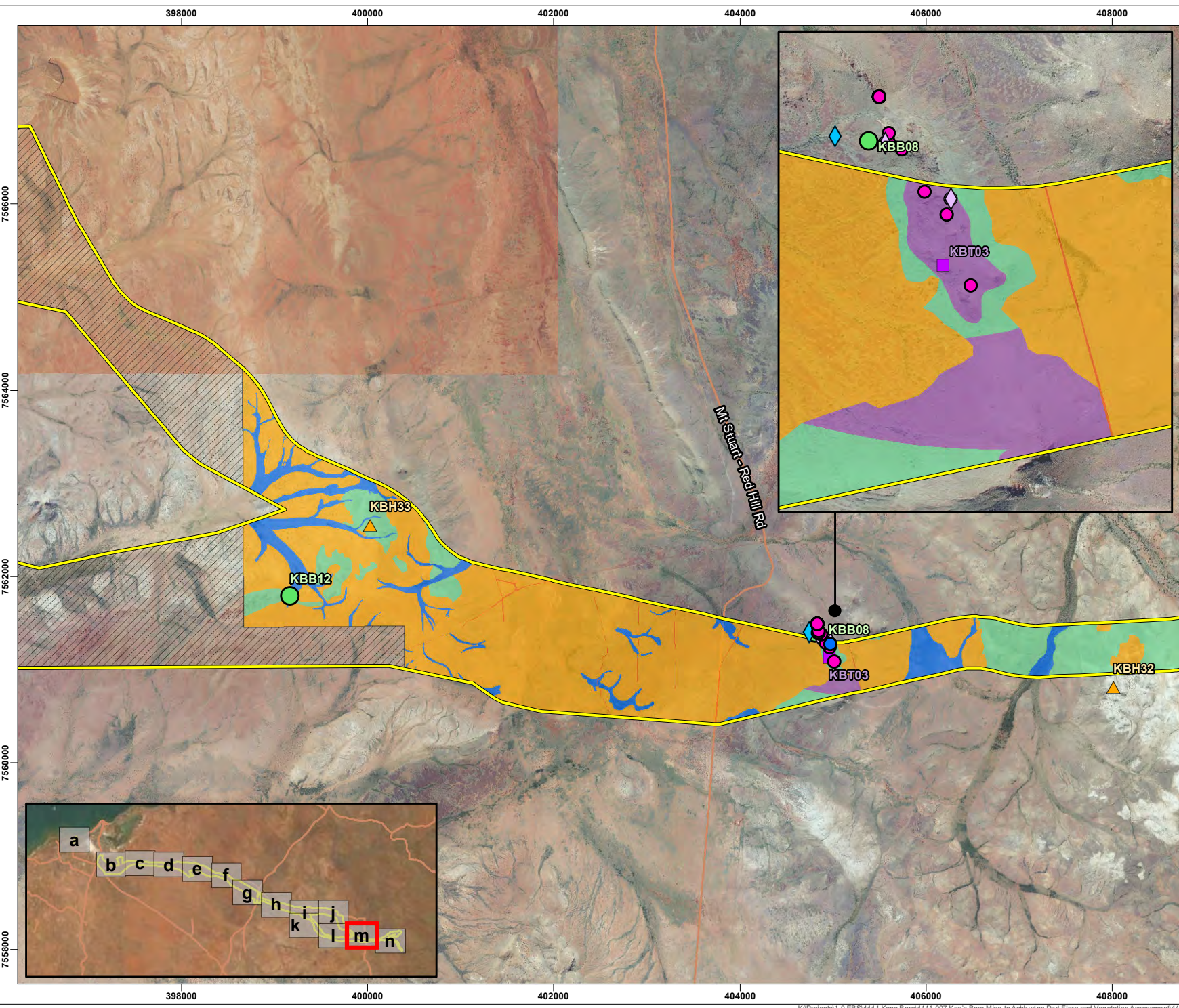
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**Figure 121**  
 Fauna Habitats and  
 Conservation Significant Fauna



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### Legend

- Roads
- Survey Area

#### Fauna Survey Sites

- ◆ ARU - audible calls
- ◇ ARU - ultrasonic calls
- Baseline trap site
- ▲ Habitat assessment
- Targeted trap site

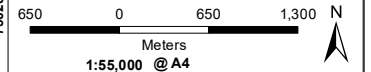
#### Conservation Significant Fauna

- Northern Quoll
- Pilbara Leaf-nosed bat

#### Fauna Habitat

- Drainage line/river/creek - minor
- Mesas and breakaways (confirmed Northern Quoll habitat)
- Stony hills and slopes
- Stony plain
- Cleared
- Not assessed

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**LOCALITY MAP**



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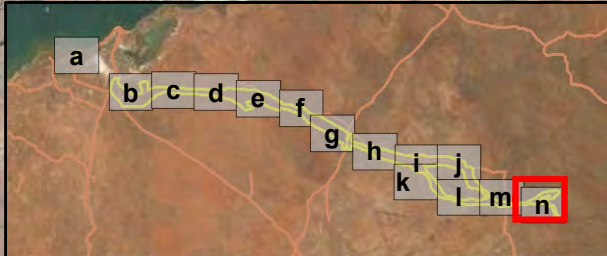
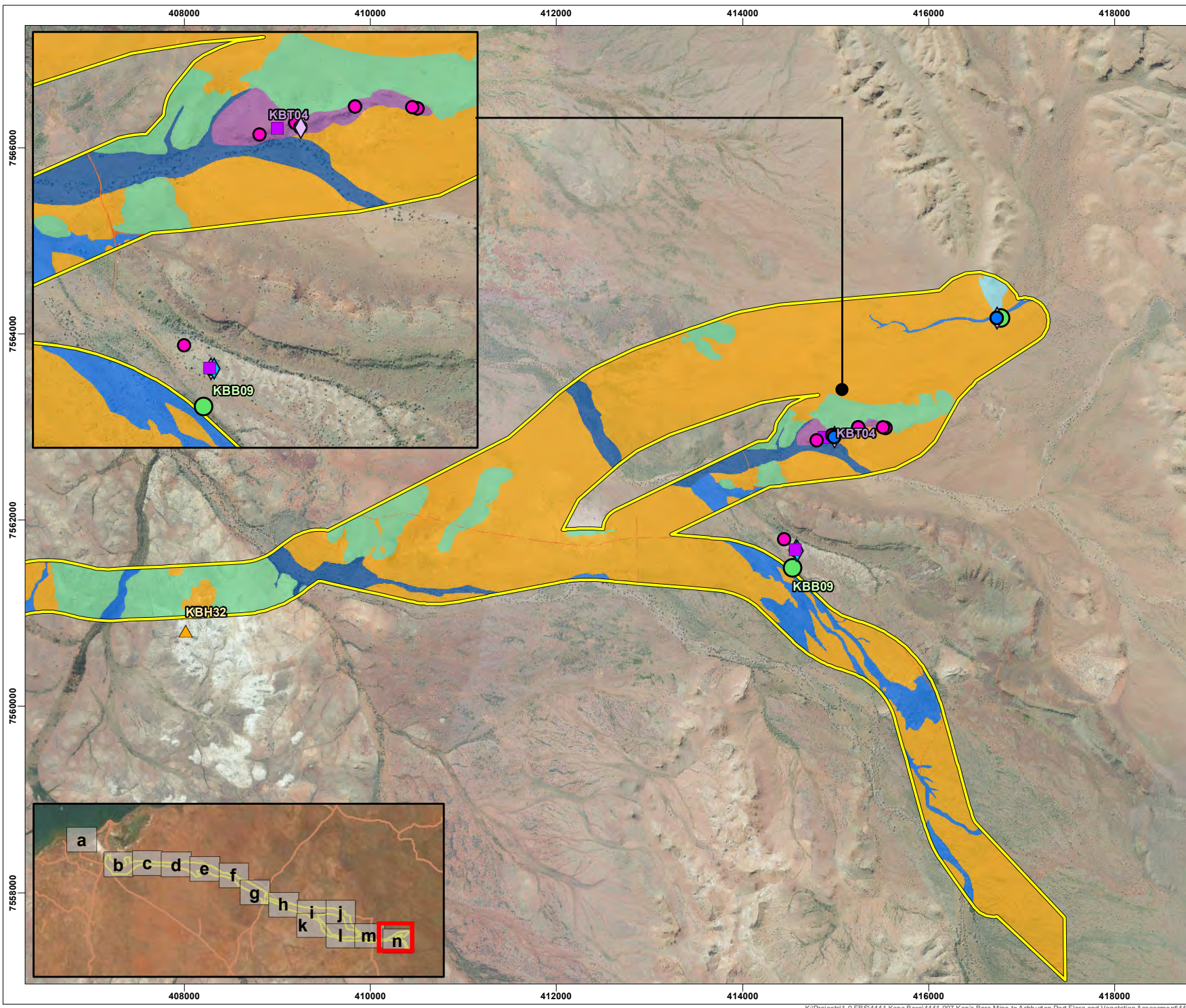
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### Legend

- Roads
- Survey Area

#### Fauna Survey Sites

- ARU - audible calls
- ARU - ultrasonic calls
- Baseline trap site
- Camera trap
- Habitat assessment
- Targeted trap site

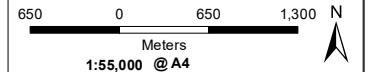
#### Conservation Significant Fauna

- Northern Quoll
- Pilbara Leaf-nosed bat

#### Fauna Habitat

- Drainage line/river/creek - major
- Drainage line/river/creek - minor
- Mesas and breakaways (confirmed Northern Quoll habitat)
- Mesas and breakaways (potential Northern Quoll habitat)
- Stony hills and slopes
- Stony plain
- Cleared

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**Vertebrate Fauna and SRE Assessment**  
**Figure 12n**  
 Fauna Habitats and Conservation Significant Fauna



#### 4.1.2.2 Vertebrate Fauna Assemblage

The terrestrial vertebrate fauna surveys yielded 144 fauna species from 59 families, summarised in Table 25. A full inventory of fauna taxa recorded during the field surveys is provided in Appendix E.

**Table 25: Overview of vertebrate fauna taxa recorded**

| Fauna Group  | Number of Species | Number of Families |
|--------------|-------------------|--------------------|
| Birds        | 62                | 34                 |
| Mammals      | 25                | 11                 |
| Reptiles     | 53                | 10                 |
| Amphibians   | 3                 | 2                  |
| <b>Total</b> | <b>144</b>        | <b>59</b>          |

##### 4.1.2.2.1 Birds

A total of 62 avian species from 34 families were recorded throughout the Survey Area. The most recorded taxa were the Singing Honeyeater (*Gavicalis virescens*), Crested Bellbird (*Oreoica gutturalis*), and Willie Wagtail (*Rhipidura leucophrys*). The most diverse families were Meliphagidae with six taxa recorded, and Accipitridae and Columbidae each with four taxa recorded.

##### 4.1.2.2.2 Mammals

A total of eleven native non-volant (non-flying) mammal species from three families were recorded throughout the Survey Area. The most recorded native mammal taxon was the Northern Quoll (*Dasyurus hallucatus*) (likely due to survey techniques targeting this species). The most diverse non-volant mammal family was Dasyuridae, comprising six taxa.

A total of eleven volant mammal taxa (bats) from five families were recorded throughout the Survey Area. The most frequently recorded taxa were the Finlayson's Cave Bat (*Vespadelus finlaysoni*), Common Sheath-tailed Bat (*Taphozous georgianus*) and Gould's Wattled Bat (*Chalinolobus gouldii*)<sup>7</sup>. The most diverse family was Vespertilionidae, comprising four taxa.

Two introduced mammal taxa were recorded. Direct sightings and evidence of European Cattle (*Bos taurus*) were recorded throughout the Survey Area, while Cat (*Felis catus*) tracks and scat were observed at one location in the plain habitat. One potentially introduced taxa was also recorded, Dog/Dingo (*Canis familiaris ?dingo*). Differentiation between Dog and Dingo would require genetic analysis. Tracks were observed at two locations along the Cane River.

##### 4.1.2.2.3 Reptiles and Amphibians

A total of 53 reptile species from ten families were recorded throughout the Survey Area. The most recorded taxon was the Leopard Ctenotus (*Ctenotus pantherinus*), followed by the North-

---

<sup>7</sup> Conservation significant bat calls were analysed in detail, therefore precise numbers of calls per night are known, whereas non-conservation significant bat species were simply recorded as present/absent at each location, therefore abundance counts may not provide an accurate reflection of abundance.

western Sandslider (*Lerista bipes*). The most diverse reptile family was Scincidae with 20 taxa, followed by Elapidae and Varanidae with six taxa each.

Three amphibian species from two families were recorded throughout the Survey Area. These were the Desert Spadefoot (*Notaden nichollsi*), Little Red Tree Frog (*Litoria rubella*) and the Sheep Frog (*Cyclorana maini*), of which the Sheep Frog was the most abundant.

#### 4.1.2.3 Conservation Significant Vertebrate Fauna

Four conservation significant fauna taxa were recorded within or directly adjacent the Survey Area during the field surveys (Figure 12):

- Northern Quoll (*Dasyurus hallucatus*) – Endangered under the BC Act and EPBC Act
- Ghost Bat (*Macroderma gigas*) – Vulnerable under the BC Act and EPBC Act
- Western Pebble-mound Mouse (*Pseudomys chapmani*) – Priority 4
- Pilbara Leaf-nosed Bat (*Rhinoicteris aurantia* Pilbara form) – Vulnerable under the BC Act and EPBC Act.

Northern Quolls were detected by camera traps at every targeted trap site (KBT01 – KBT05) and two individuals were captured in cage traps, one at site KBT02 and one at site KBT03 (Figure 12). One photo captured at KBT03 shows an adult and juvenile together (Plate 1). Spot pattern analysis identified five individuals at KBT02, three individuals at KBT03, five individuals at KBT04, and four individuals at KBT05. A photo of a Northern Quoll active during daylight, potentially lured out by the scent of bait, is shown in Plate 2. Northern Quolls were primarily recorded in the mesas and breakaways habitat; however, a possible Northern Quoll track was identified in sand dunes and swales habitat. The footprint, shown in Plate 3, was not distinct enough to identify with certainty and only one pawprint was found so gait could not be used to aid identification. Plate 3 also shows Spotted-tail Quoll (*Dasyurus maculatus*) tracks for comparison, as their track patterns are alike (Triggs, 2004).

A Ghost Bat was detected by camera trap and six Ghost Bat calls were recorded by ARU at site KBT05 (Plate 4; Figure 12) in mesas and breakaway habitat. An additional possible Ghost Bat call was recorded at site KBT02; however, this call was not clear enough to be identified with certainty.

A Western Pebble-mound Mouse mound was recorded in stony hills and slopes habitat (Plate 5; Figure 12). The mound had a clear undulating/conical structure. No access hole was visible, but the mound had been recently occupied. The record occurs 30 m outside the current Survey Area boundary due to minor changes made by MRL based on the haul road design.

Pilbara Leaf-nosed Bats were recorded by ARU at four sites, with fifteen calls recorded across four nights at site KBB11, five calls recorded over two nights at site KBT03, 95 calls recorded over four nights at site KBT04, and one call recorded on one night at site KBT05 (Figure 12).

A fifth conservation significant fauna taxon, the Pilbara Olive Python (*Liasis olivaceus barroni*), listed as Vulnerable under the BC Act and EPBC Act, was opportunistically recorded in a cattle trough approximately 20 km south of the Survey Area near Cardo Camp (Plate 6; Figure 12).

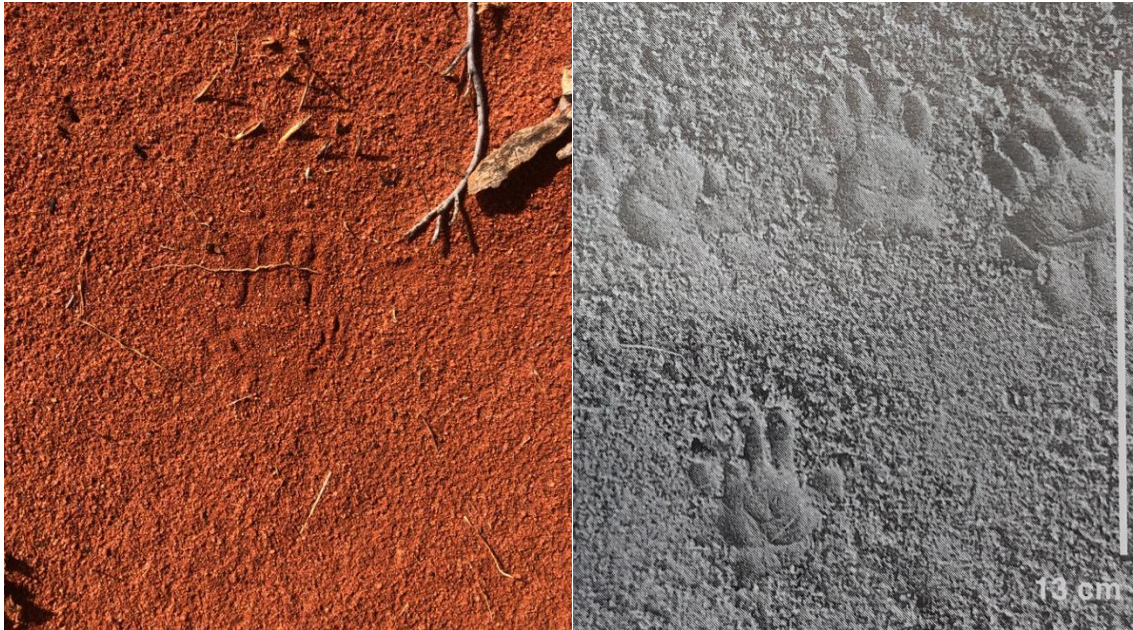




**Plate 1: Adult and juvenile Northern Quoll detected by camera trap at site KBT03**



**Plate 2: Northern Quoll detected by camera trap at site KBT04**



**Plate 3: Possible Northern Quoll track (left), Spotted-Tail Quoll tracks (Triggs, 2004) (right)**



**Plate 4: Ghost Bat detected via camera trap at site KBT05**





**Plate 5: Inactive Western Pebble-mound Mouse mound**



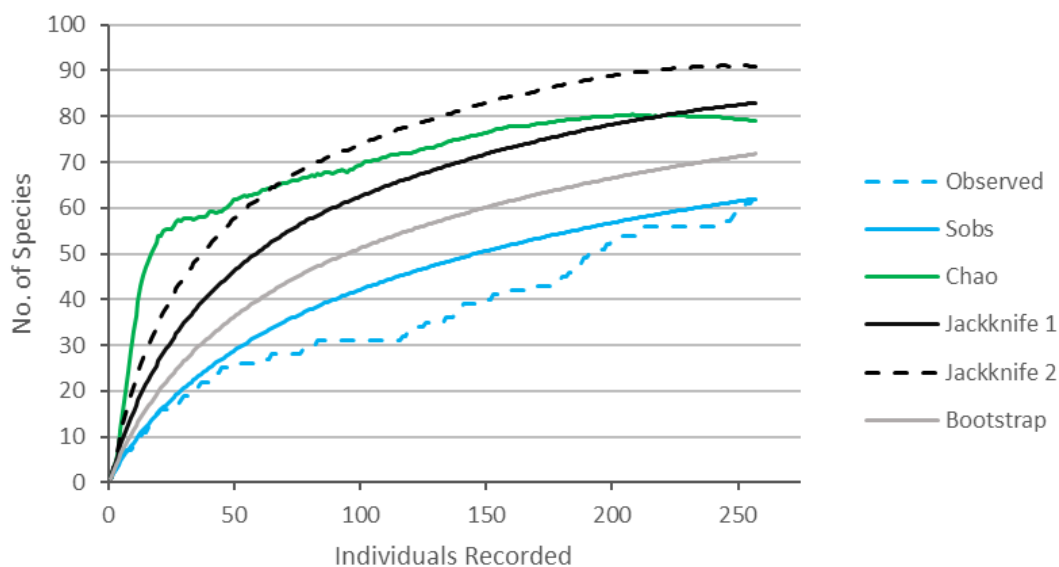
**Plate 6: Pilbara Olive Python opportunistically recorded in a cattle trough at Cardo Camp**

### 4.1.3 Survey Adequacy

#### 4.1.3.1 Birds

The species accumulation curve for birds in the Survey Area was based on birds observed across trips 1, 3, 5 and 10. The Sobs curve steadily increased with captures and does not appear to reach an asymptote (Figure 13), indicating that additional taxa may be recorded with increased trapping effort. All richness curves were greater than the Sobs curve, indicating that the observed species richness was lower than predicted by the analysis.

Estimated species richness for the Survey Area ranged from 72 to 91, with an observed value of 62 taxa. Richness estimators indicated that the surveys were approximately 72% (Jackknife 2) to 91% (Bootstrap) adequate in recording the full complement of bird taxa within the Survey Area.



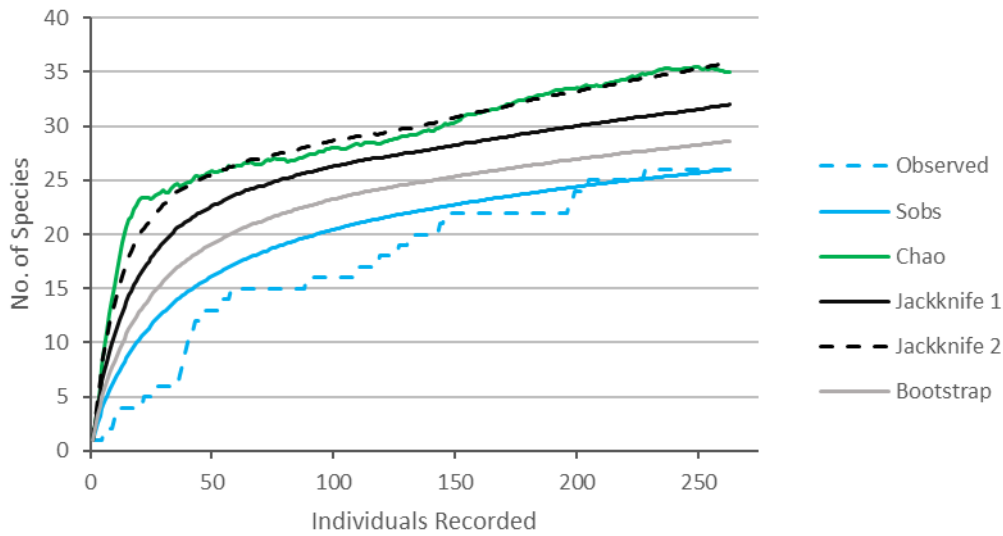
**Figure 13: Bird Species Accumulation Curve**

#### 4.1.3.2 Mammals

The species accumulation curve for mammals in the Survey Area was based on mammals observed across trips 1, 3, 5 and 10. The Sobs curve steadily increased with captures and does not appear to reach an asymptote (Figure 14), indicating that additional taxa may be recorded with increased trapping effort. All richness curves were greater than the Sobs curve, indicating that the observed species richness was lower than predicted by the analysis.

Estimated species richness for the Survey Area ranged from 29 to 36, with an observed value of 26 taxa. Richness estimators indicated that the surveys were approximately 68% (Jackknife 2) to 86% (Bootstrap) adequate in recording the full complement of bird taxa within the Survey Area.



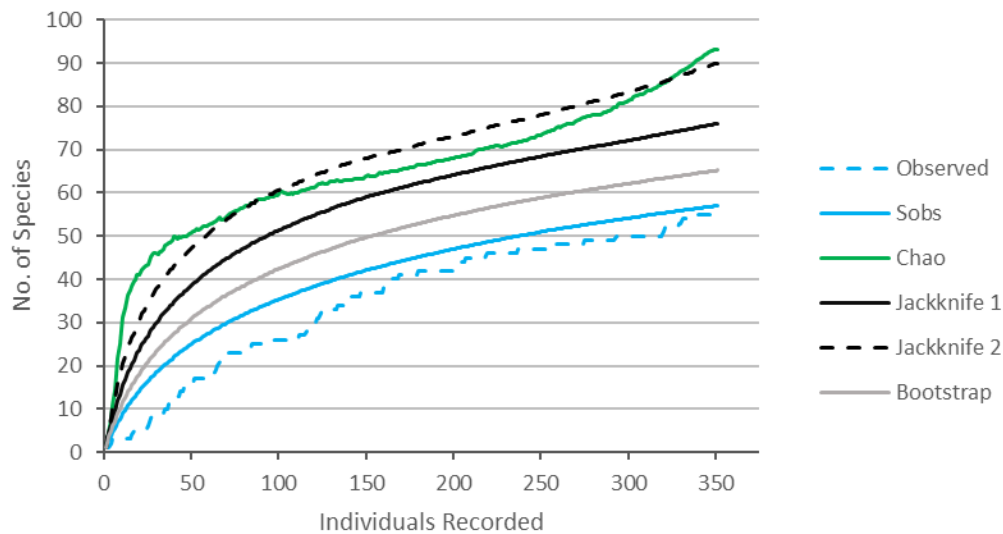


**Figure 14: Mammal Species Accumulation Curve**

4.1.3.3 Reptiles and Amphibians

The species accumulation curve for reptiles and amphibians in the Survey Area was based on reptile captures and observations across trips 1, 3, 5 and 10. The Sobs curve steadily increased with trap nights and does not appear to reach an asymptote (Figure 15), indicating that additional taxa may be recorded with increased trapping effort. All richness curves were greater than the Sobs curve, indicating that the observed species richness was lower than predicted by the analysis.

Estimated species richness for the Survey Area ranged from 65 to 93, with an observed value of 57 taxa. Richness estimators indicated that the surveys were approximately 61% (Chao) to 88% (Bootstrap) adequate in recording the full complement of bird taxa within the Survey Area.



**Figure 15: Reptile and Amphibian Species Accumulation Curve**

## 4.2 SRE Invertebrate Fauna

### 4.2.1 Desktop Assessment

The desktop assessment identified two possible SRE taxa and no confirmed or likely SRE taxa. The taxa are summarised below and shown in Table 26 along with their conservation code:

- Land snail, *Quistrachia* cf. 'Barlee Range' n. sp.
- Land snail, cf. *Stenomelania denisoniensis*.

The remaining taxa identified from desktop resources were found to be widespread.

No conservation significant invertebrate taxa were identified during the desktop assessment (excluding troglofauna and stygofauna, which are not included in this assessment).

**Table 26: SRE invertebrate fauna likelihood of occurrence within the Survey Area**

| Higher Order       | Taxon  | SRE status | Conservation Status |         | Likely Habitat Present | Desktop Likelihood |
|--------------------|--|------------|---------------------|---------|------------------------|--------------------|
|                    |  |            | State               | Federal |                        |                    |
| <b>Gastropoda:</b> |  |            |                     |         |                        |                    |
| Camaenidae         | <i>Quistrachia</i> cf. 'Barlee Range' n. sp. | Possible   | -                   | -       | Not Present            | Low                |
| Thiraidae          | cf. <i>Stenomelania denisoniensis</i>        | Possible   | -                   | -       |                        | Very Low           |

### 4.2.2 SRE Habitat

Most of the habitats identified within the Survey Area (sand dunes, plains and stony hills and slopes) are widespread across the region and are unlikely to provide habitat isolates which may give rise to SRE invertebrates. These habitats are therefore considered to provide low SRE habitat suitability. The drainage line/river/creek habitats and mesas and breakaways habitats are considered to provide moderate SRE habitat suitability, as the western edges of drainage lines and the southeast slopes of mesas and breakaways provide some protection from afternoon sun and may contain greater moisture within leaf litter accumulations. SRE habitat suitability is shown in Table 27 and Figure 16. SRE site locations and photos are shown in Appendix F.

**Table 27: Habitat suitability for SRE invertebrates**

| Fauna Habitat | SRE Sites   | Extent within the Survey Area |       | SRE Habitat Suitability |
|---------------|---|-------------------------------|-------|-------------------------|
|               |   | Area (ha)                     | %     |                         |
| Plain         | KBSRE15, KBSRE16, KBSRE17, KBSRE28                            | 8,224                         | 27.2  | Low                     |
| Stony plain   | KBSRE06, KBSRE08, KBSRE11, KBSRE12, KBSRE22, KBSRE24, KBSRE26 | 6,624                         | 21.91 | Low                     |



| Fauna Habitat                     | SRE Sites   | Extent within the Survey Area |       | SRE Habitat Suitability |
|-----------------------------------|---|-------------------------------|-------|-------------------------|
|                                   |   | Area (ha)                     | %     |                         |
| Sand dunes and swales             | KBSRE18   | 3,149                         | 10.42 | Low                     |
| Drainage line/river/creek (minor) | KBSRE02, KBSRE04, KBSRE07, KBSRE09, KBSRE10, KBSRE13, KBSRE23 | 176                           | 0.58  | Moderate                |
| Drainage line/river/creek (major) | KBSRE27   | 1,911                         | 6.32  | Moderate                |
| Tidal flats                       | KBSRE01, KBSRE29, KBSRE30                                     | 1,758                         | 5.82  | Low                     |
| Mulga woodland                    | KBSRE03   | 369                           | 1.22  | Low                     |
| Stony hills and slopes            | KBSRE05, KBSRE19, KBSRE20, KBSRE21                            | 1,140                         | 3.79  | Moderate                |
| Mesas and breakaways              | KBSRE14, KBSRE25  | 48                            | 0.13  | Moderate                |
| Cleared                           |   | 176                           | 0.58  | Nil                     |
| Not Assessed                      |   |                               |       | Nil                     |

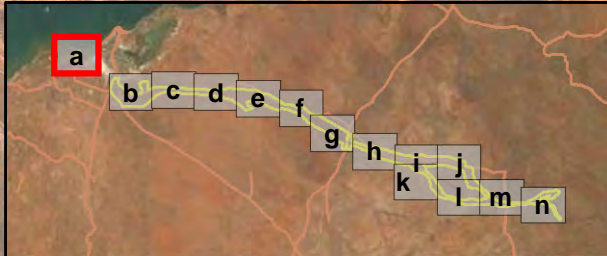
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292000 294000 296000

**Legend**

- Roads
- Survey Area

**SRE Habitat Suitability**

- Low Suitability
- Cleared

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS  
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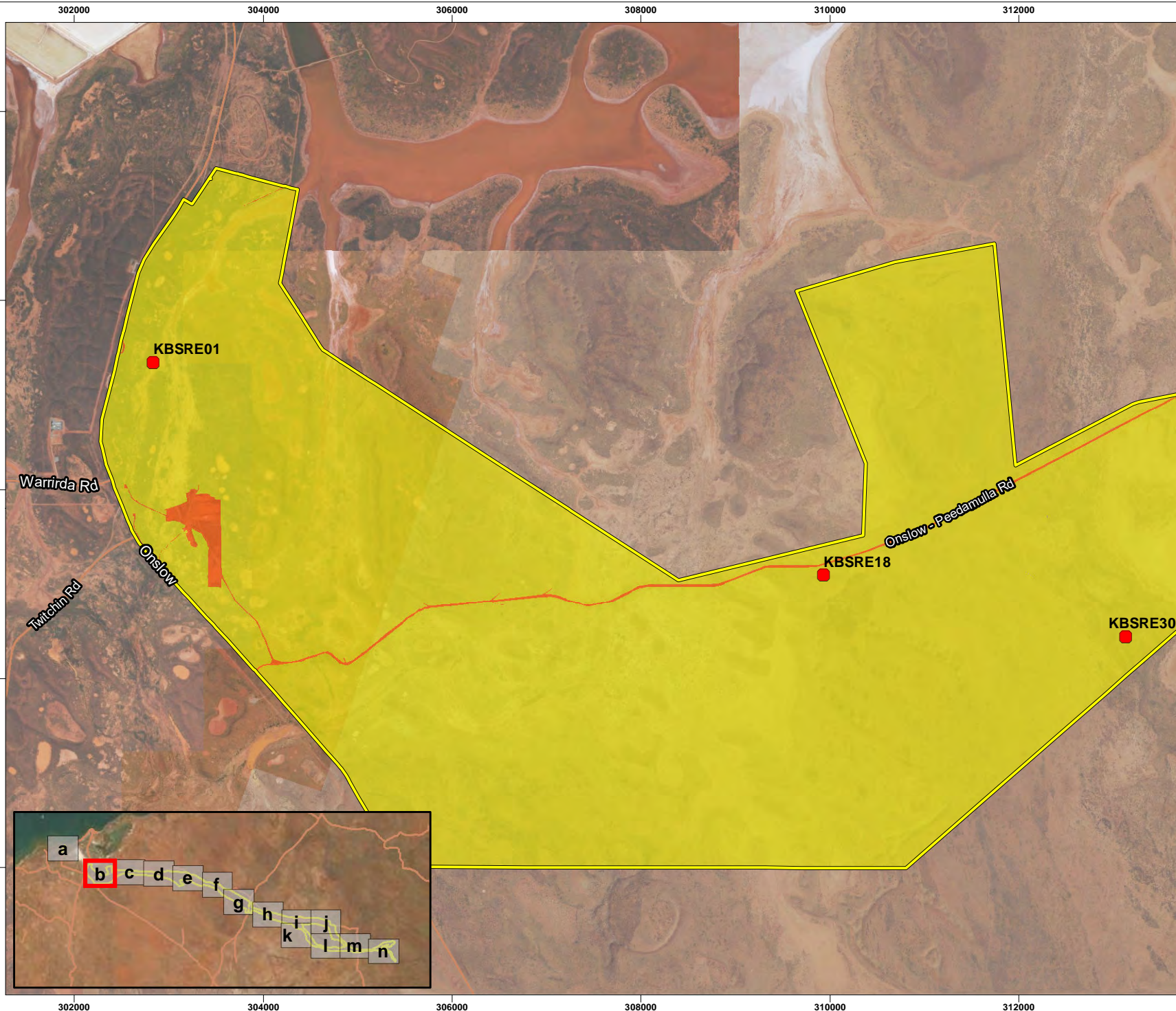
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**Figure 16a**  
**SRE Habitat Suitability**



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**Legend**

- Roads
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- SRE Survey Sites

**SRE Habitat Suitability**

- Low Suitability
- Cleared

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS  
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**Figure 16b**  
**SRE Habitat Suitability**



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**Legend**

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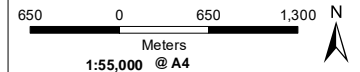
**SRE Habitat Suitability**

- Low Suitability
- Cleared

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**HORIZONTAL DATUM AND PROJECTION**  
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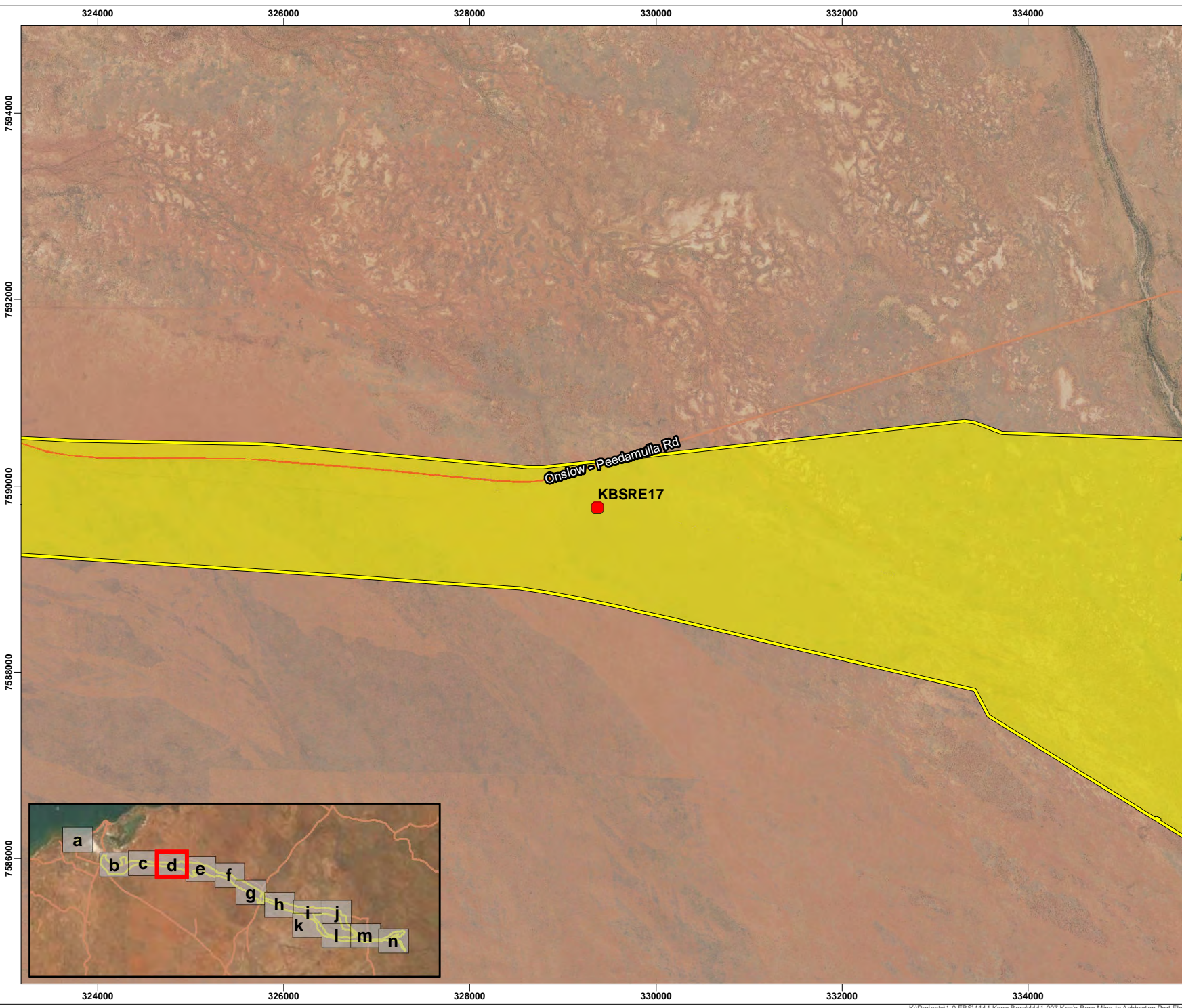
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**Figure 16c**  
**SRE Habitat Suitability**



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**Legend**

- Roads
- Survey Area
- SRE Survey Sites

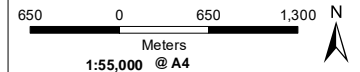
**SRE Habitat Suitability**

- Moderate Suitability
- Low Suitability
- Cleared

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS  
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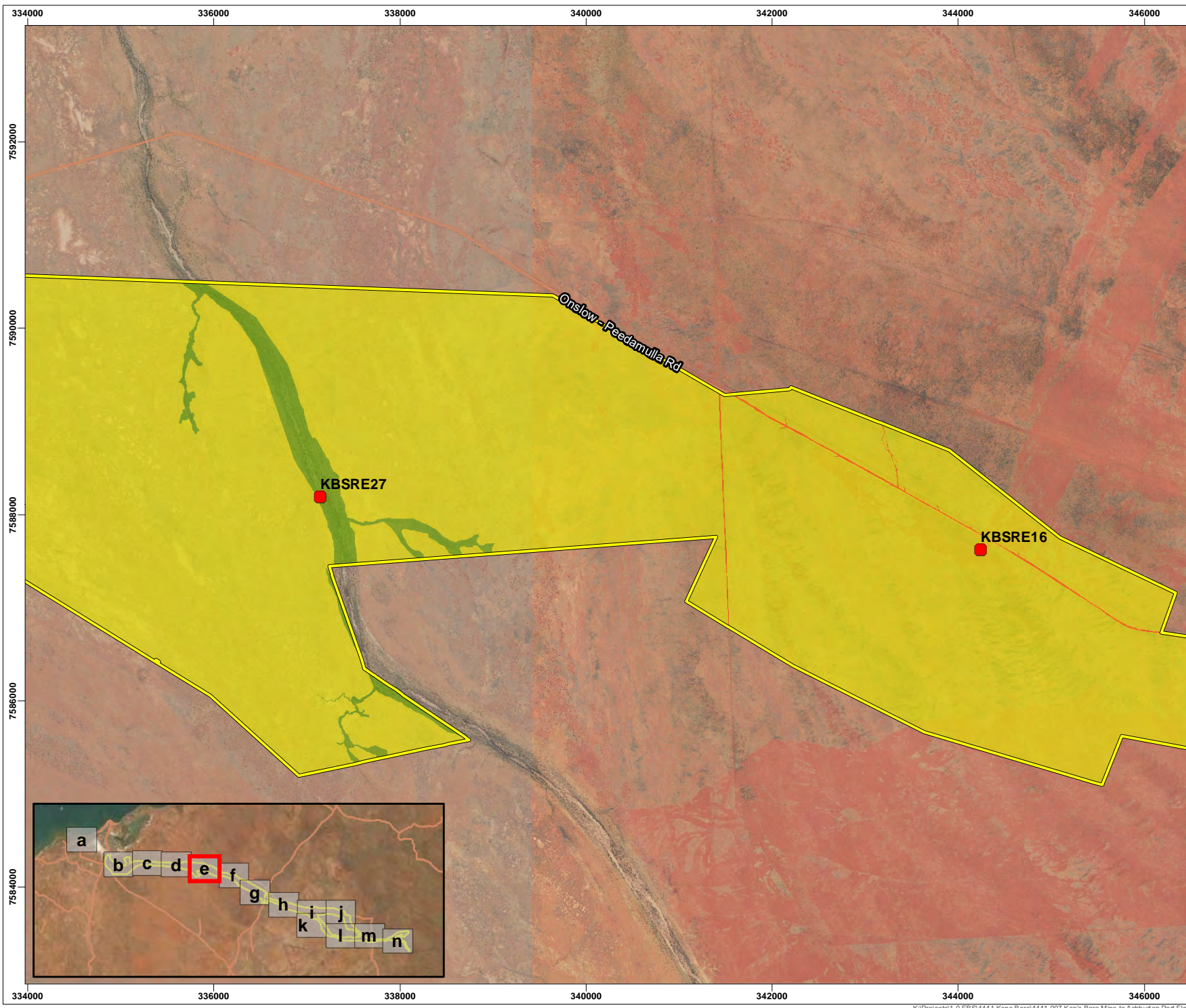
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**Figure 16d**  
**SRE Habitat Suitability**



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**Legend**

- Roads
- Survey Area
- SRE Survey Sites

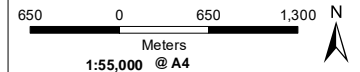
**SRE Habitat Suitability**

- Moderate Suitability
- Low Suitability
- Cleared

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS  
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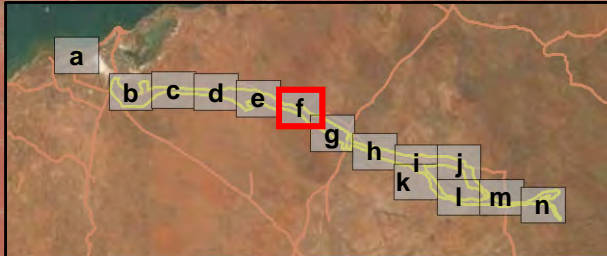
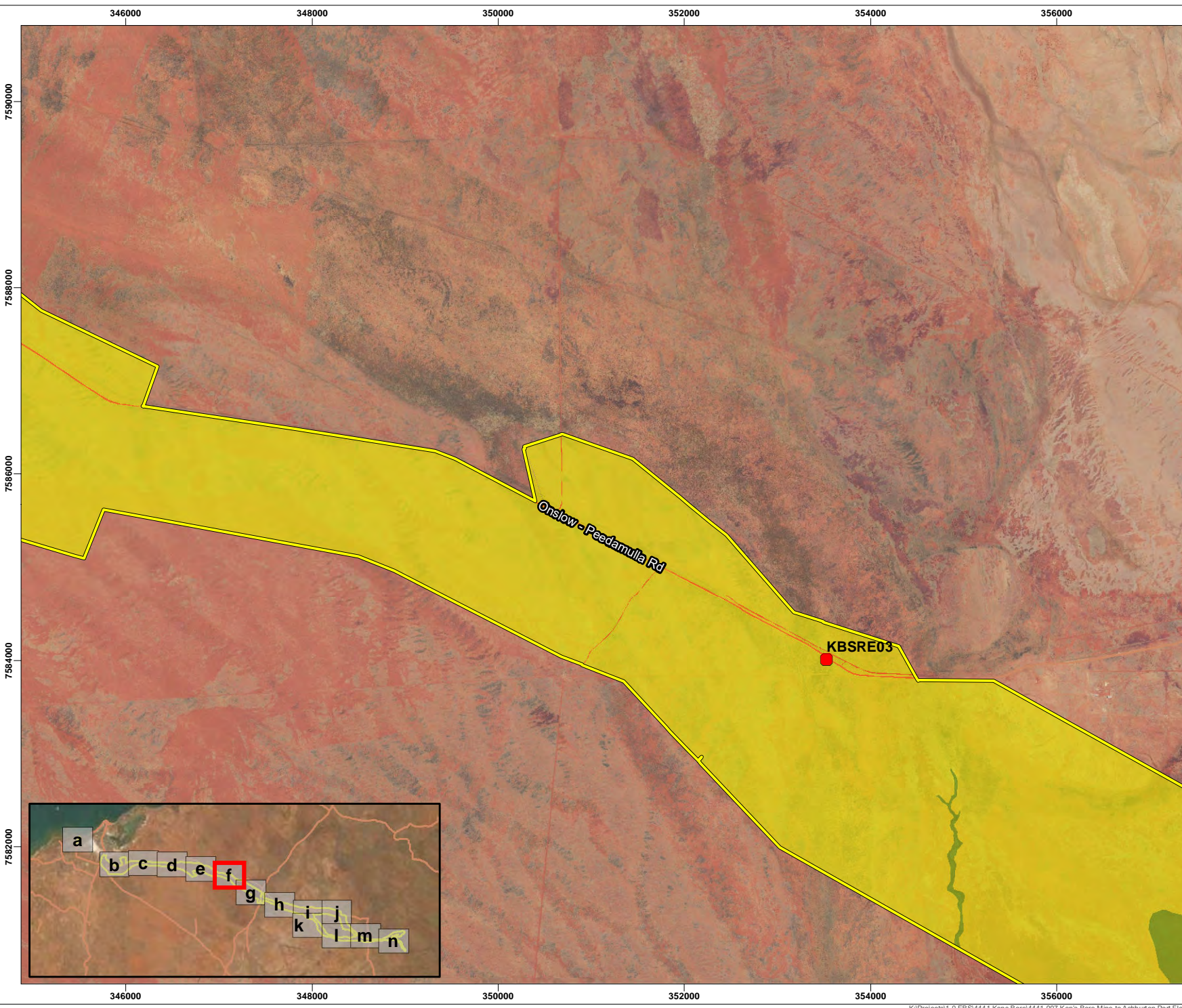
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**Figure 16e**  
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- Roads
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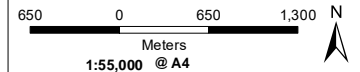
**SRE Habitat Suitability**

- Moderate Suitability
- Low Suitability
- Cleared

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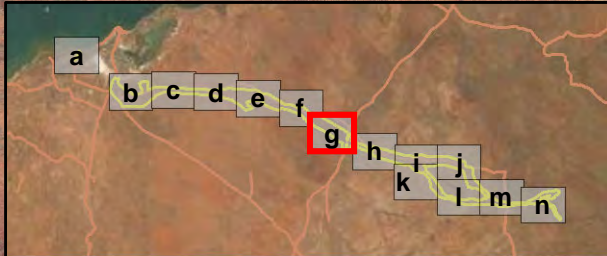
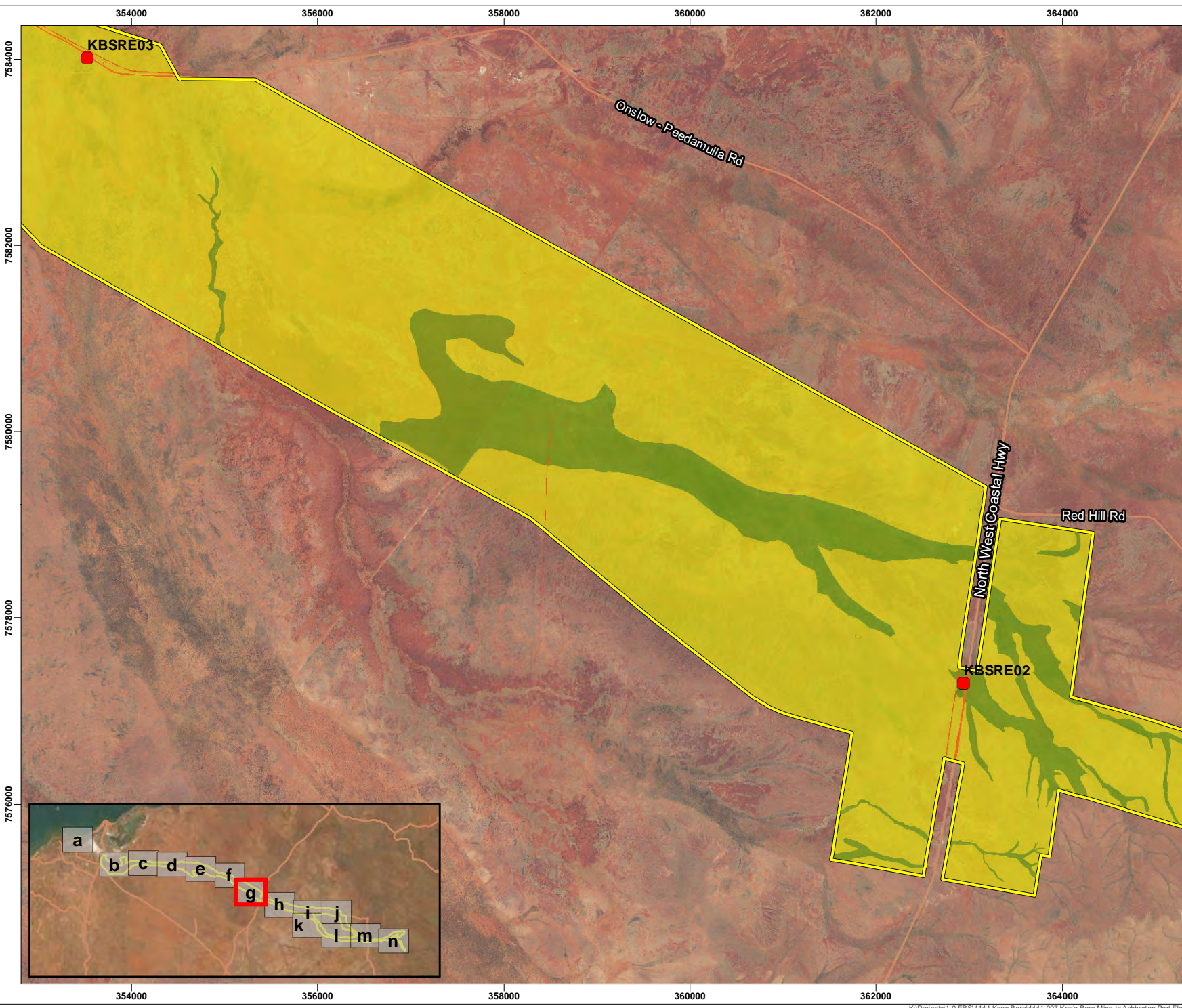
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**Figure 16f**  
**SRE Habitat Suitability**



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- Roads
- Survey Area
- SRE Survey Sites

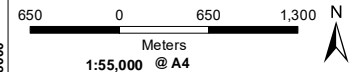
**SRE Habitat Suitability**

- Moderate Suitability
- Low Suitability
- Cleared

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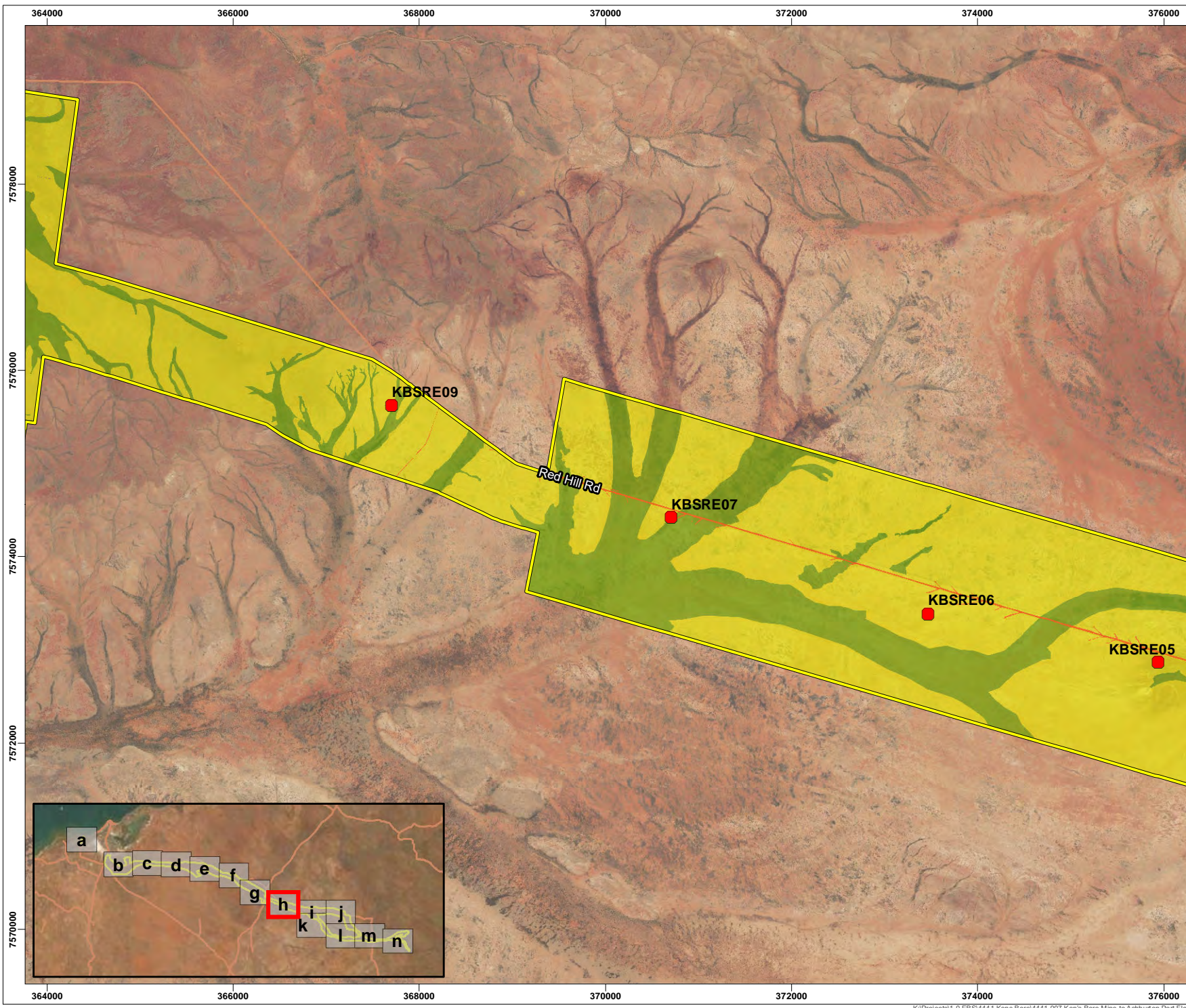
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**Figure 16g**  
**SRE Habitat Suitability**



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- Survey Area
- SRE Survey Sites

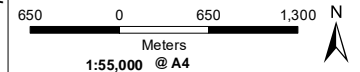
**SRE Habitat Suitability**

- Moderate Suitability
- Low Suitability
- Cleared

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS  
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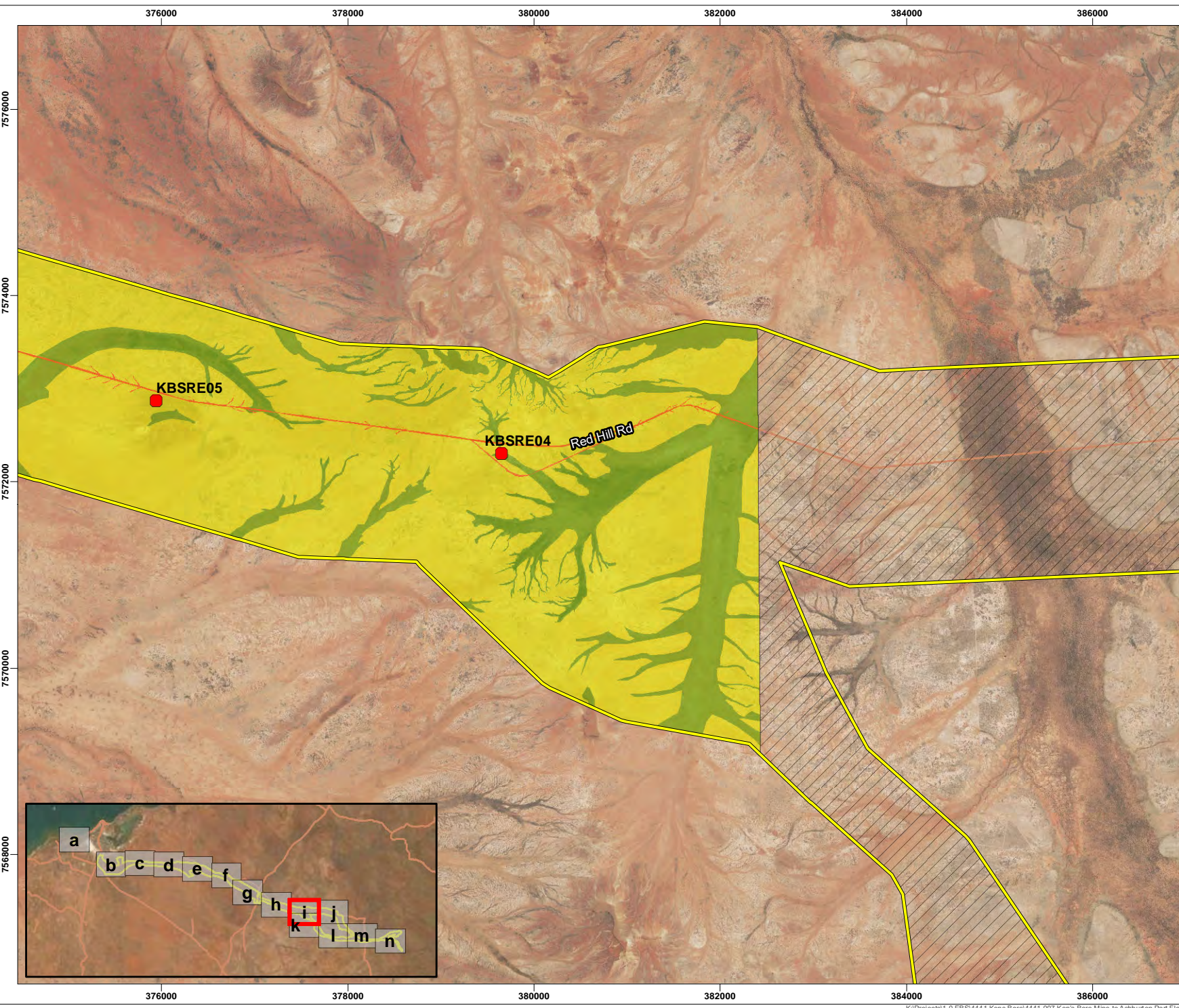
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**Figure 16h**  
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**Legend**

- Roads
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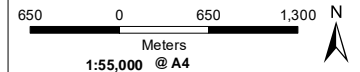
**SRE Habitat Suitability**

- Moderate Suitability
- Low Suitability
- Cleared
- Not Assessed

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS  
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**Figure 16i**  
**SRE Habitat Suitability**



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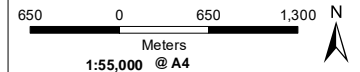
**Legend**

- Roads
- Survey Area
- SRE Habitat Suitability**
- Not Assessed

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS  
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**HORIZONTAL DATUM AND PROJECTION**  
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**Figure 16j**  
**SRE Habitat Suitability**



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- Roads
- Survey Area

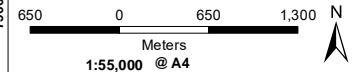
**SRE Habitat Suitability**

- Moderate Suitability
- Low Suitability
- Not Assessed

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS  
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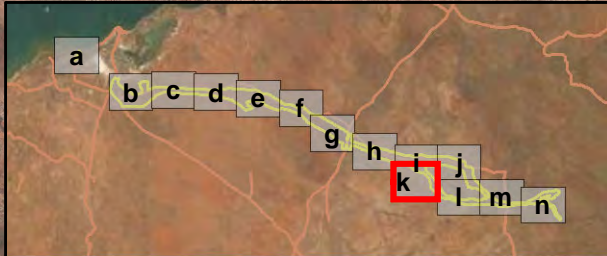
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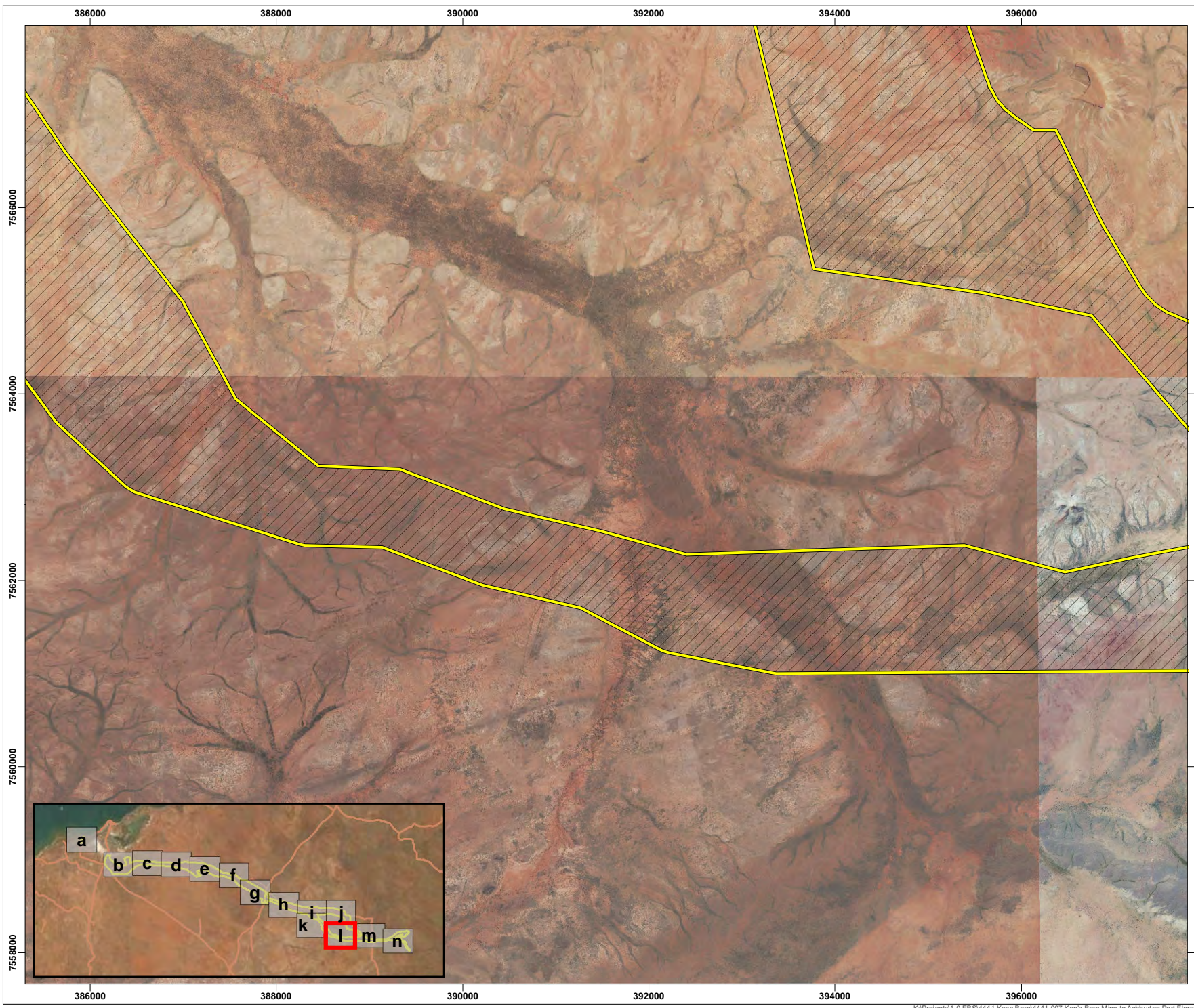
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**Figure 16k**  
**SRE Habitat Suitability**





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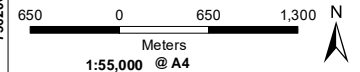
**Legend**

- Roads
- Survey Area
- SRE Habitat Suitability**
- Not Assessed

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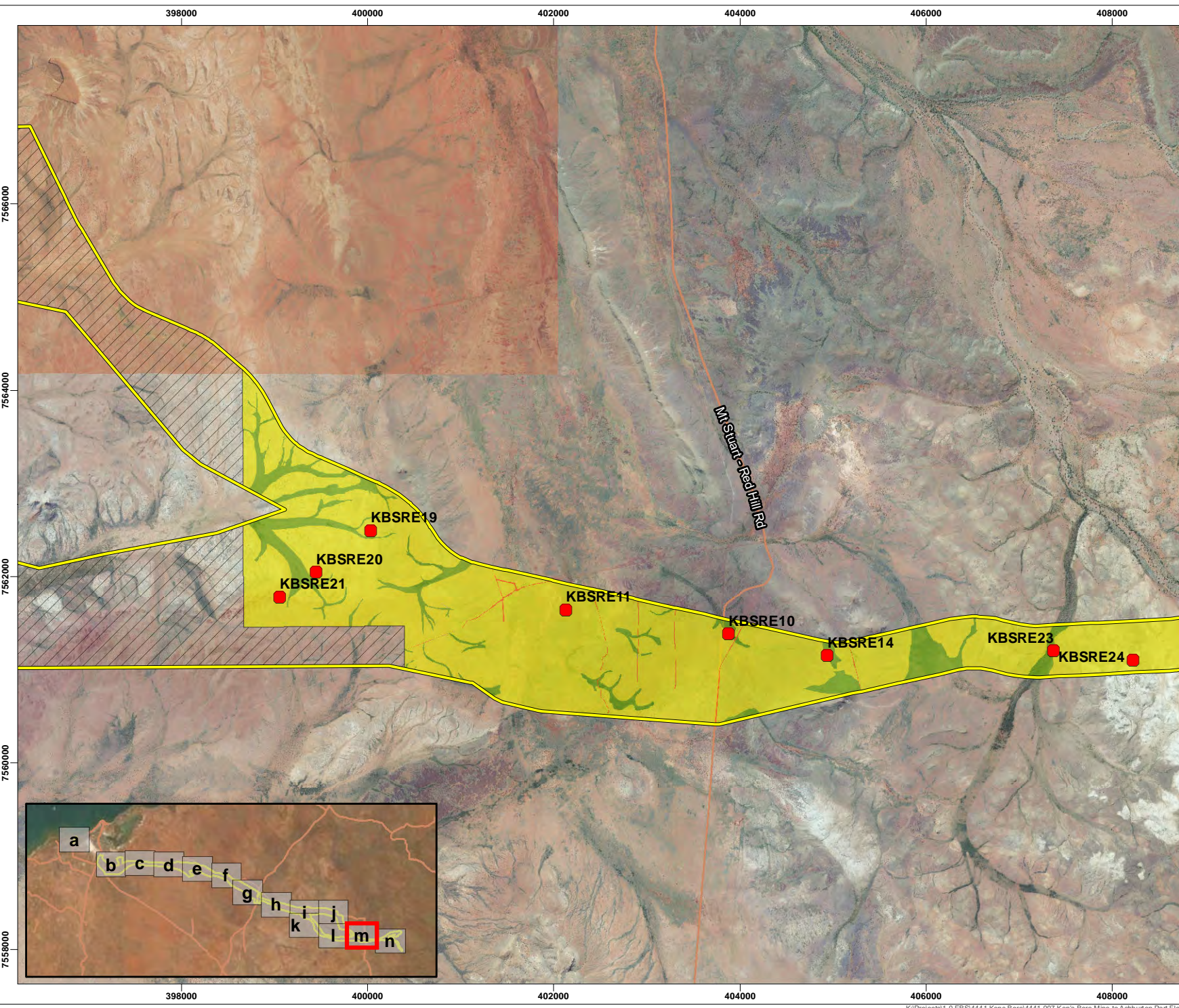
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**Figure 16I**  
 SRE Habitat Suitability



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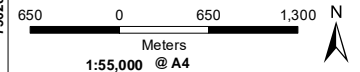
#### SRE Habitat Suitability

- Moderate Suitability
- Low Suitability
- Cleared
- Not Assessed

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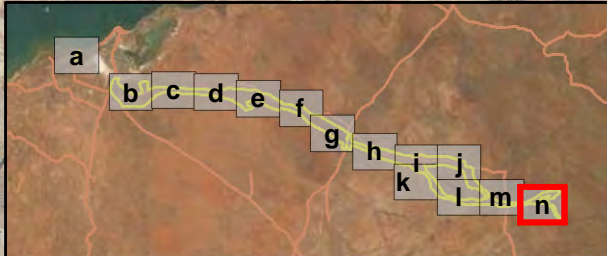
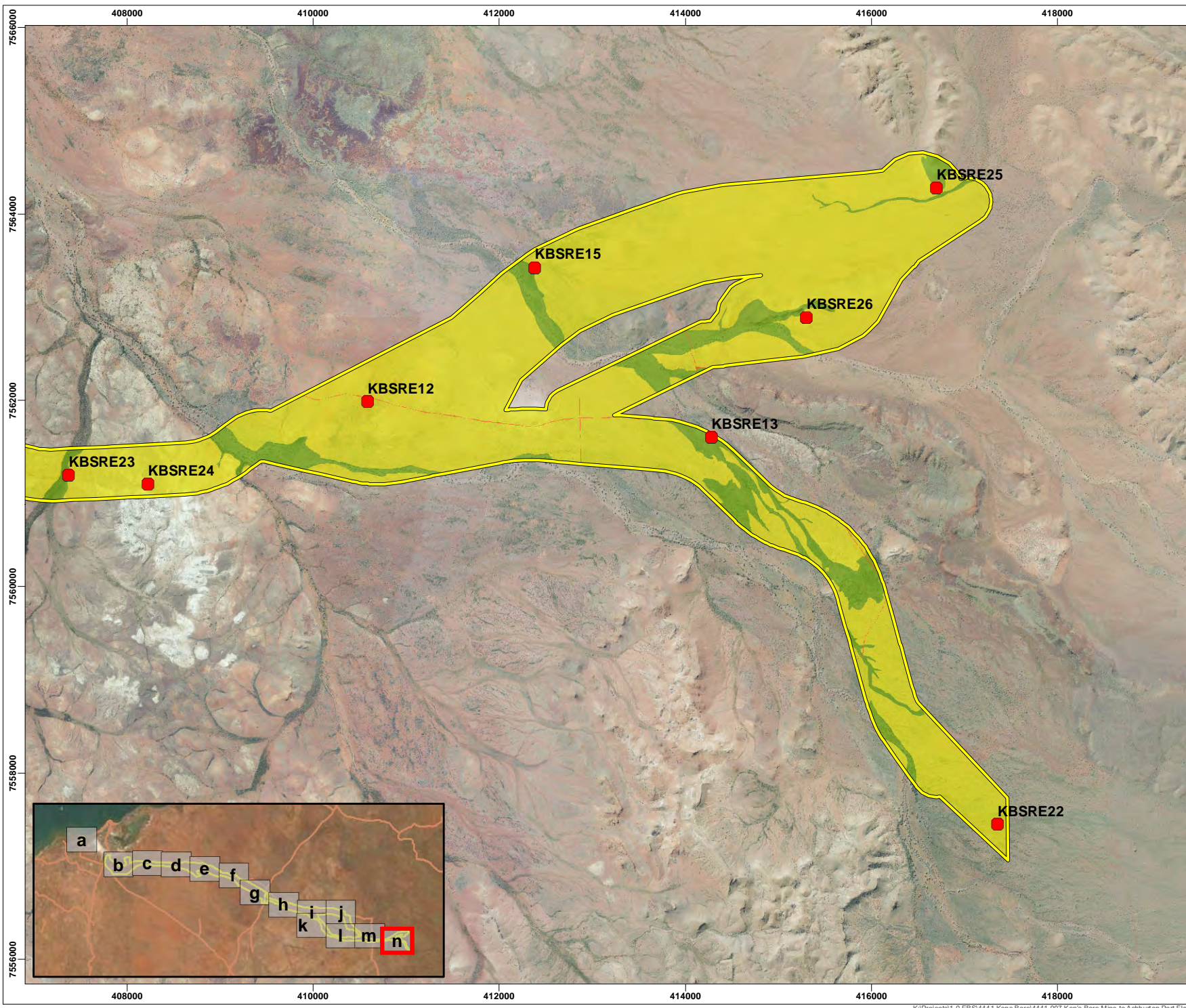
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**Figure 16m**  
**SRE Habitat Suitability**



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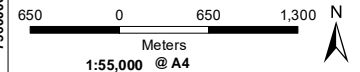
**SRE Habitat Suitability**

- Moderate Suitability
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- Cleared

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**Figure 16n**  
**SRE Habitat Suitability**



#### 4.2.3 SRE Field Survey

The SRE field surveys recorded 307 individual specimens representing 24 taxa of invertebrates from five classes, ten orders and 13 families that have the potential to contain SRE taxa (Appendix G). Taxa that are considered to be SRE are summarised in Table 28.

No Confirmed SRE or conservation significant taxa were recorded during the field survey.

Two likely SRE taxa were recorded at single locations:

- One Philoscid isopod Philoscidae sp. indet. 'Onslow'
- One Polydesmid millipede *Antichiropus?* Juvenile.

Four possible SRE taxa were recorded primarily due to the groups being considered data deficient:

- One armadillid isopod *Buddelundia* sp. '35/36'
- One centipede *Cryptops* sp. 'Onslow'
- Two Olpid pseudoscorpions *Beierolpium* sp., and *Indolpium* sp.

The details of all specimens recorded during the surveys including abundance data and individual specimen tracking numbers is shown in Appendix G.

**Table 28: SRE invertebrates recorded during the field surveys**

| Higher Order               | Taxon                         | SRE Site Recorded  | SRE Status | SRE Habitat   |
|----------------------------|-------------------------------|--|------------|---|
| <b>Gastropoda:</b>         |                               |  |            |   |
| Camaenidae                 | <i>Rhagada convicta</i>       | KBSRE04, KBSRE05, KBSRE06, KBSRE07, KBSRE08, KBSRE09, KBSRE10, KBSRE11, KBSRE12, KBSRE13, KBSRE24, KBSRE27         | Widespread | Drainage (minor and major), stony hills and slopes and stony plain                              |
|                            | <i>Rhagada cf. radleyi</i>    | KBSRE24  | Widespread | Stony plain   |
| <b>Crustacea: Isopoda:</b> |                               |  |            |   |
| Armadillidae               | <i>Buddelundia</i> sp. '10bf' | KBSRE04, KBSRE05, KBSRE12, KBSRE13, KBSRE16, KBSRE19, KBSRE25, KBSRE29, KBSRE30, KBT02, KBT03, KBT06, KBT08, KBT09 | Widespread | Drainage (minor), mesas and breakaways, plain, stony hills and slopes, stony plain, tidal flats |
|                            | <i>Buddelundia</i> sp. '14re' | KBSRE02, KBSRE03, KBSRE04, KBSRE07, KBSRE10, KBSRE15, KBSRE27, KBSRE28, KBT04                                      | Widespread | Drainage (major and minor), mulga woodland, plain   |

| Higher Order                  | Taxon  | SRE Site Recorded   | SRE Status | SRE Habitat   |
|-------------------------------|--|---|------------|---|
| Armadillidae                  | <i>Buddelundia</i> sp. '35/36'                 | KBSRE02, KBSRE03, KBSRE08, KBSRE13, KBSRE15, KBSRE22, KBSRE24                   | Possible   | Drainage (minor), mulga woodland, plain, stony plain  |
|                               | <i>Buddelundia</i> sp. indet. juvenile/damaged | KBSRE03, KBSRE07, KBSRE11, KBSRE13, KBSRE17, KBSRE18, KBSRE22, KBSRE24, KBSRE25 | Unknown    | drainage (minor), mesas and breakaways, mulga woodland, plain, sand dunes and swales, stony plain |
| Philosciidae                  | Philosciidae sp. indet. 'Onslow'               | KBSRE15   | Likely     | Plain   |
| <b>Arachnida:</b>             |  |   |            |   |
| <b>Araneae, Mygalomorphae</b> |  |   |            |   |
| Anamidae                      | <i>Aname ellanae</i>                           | KBT01, KBT03  | Widespread | Sand dunes and swales   |
| <b>Pseudoscorpiones</b>       |  |   |            |   |
| Chthoniidae                   | <i>Austrochthonius australis</i>               | KBSRE07, KBSRE27  | Widespread | Drainage (minor and major)  |
| Olpidae                       | <i>Beierolpium</i> sp.                         | KBSRE14, KBSRE22, KBSRE25, KBSRE26  | Possible   | Mesas and breakaways, stony plain   |
|                               | <i>Indolpium</i> sp.                           | KBSRE01, KBSRE26, KBT08   | Possible   | Stony plain, tidal flats, stony hills, and slopes   |
| <b>Scorpionida</b>            |  |   |            |   |
| Buthidae                      | <i>Lychas</i> sp. 'hairytail'                  | KBT02, KBT03, KBT04, KBT07, KBT08   | Widespread | Drainage (minor), mulga woodland, stony hills, and slopes   |
|                               | <i>Lychas</i> sp. 'harveyi'                    | KBSRE02, KBSRE16, KBT03, KBT06, KBT08, KBT09                                    | Widespread | Drainage (minor), plain, stony hills and slopes   |
|                               | <i>Lychas</i> sp. 'multipunctatus'             | KBSRE23   | Widespread | Drainage (minor)  |
| Urodacidae                    | <i>Urodacus megamastigmus</i>                  | KBT09   | Widespread | Drainage (minor)  |



| Higher Order             | Taxon                               | SRE Site Recorded   | SRE Status | SRE Habitat   |
|--------------------------|-------------------------------------|---|------------|---|
| <b>Chilopoda:</b>        |                                     |   |            |   |
| <b>Geophilomorpha</b>    |                                     |   |            |   |
| Mescitocephalidae        | <i>Mescitocephalus</i> sp. 'IS06'   | KBSRE10   | Widespread | Drainage (minor)  |
| <b>Scolopendromorpha</b> |                                     |   |            |   |
| Scolopendridae           | <i>Arthrorhabdus mjobergi</i>       | KBSRE02, KBSRE10, KBSRE12, KBSRE13, KBT10                                 | Widespread | Drainage (minor and major), Stony plain   |
| Scolopendridae           | <i>Cormocephalus turneri</i>        | KBSRE24, KBT04  | Widespread | Stony plain, mulga woodlands  |
|                          | <i>Cryptops</i> sp. 'Onslow'        | KBSRE02, KBSRE05, KBSRE08, KBSRE10, KBSRE12, KBSRE13                      | Possible   | Drainage (minor), Stony hills and slopes and stony plain                                |
|                          | <i>Ethmostigmus curtipes</i>        | KBT08   | Widespread | Stony plain and hills   |
|                          | <i>Scolopendra morsitans</i>        | KBSRE29, KBSRE30, KBT06   | Widespread | Tidal flats, stony hills, and slopes  |
| <b>Scutigermorpha</b>    |                                     |   |            |   |
| Scutigeridae             | <i>Pilbarascutigera incola</i>      | KBSRE03, KBSRE14, KBSRE22, KBSRE25, KBSRE26, KBSRE29, KBT04, KBT06, KBT08 | Widespread | Mesas and breakaways, mulga woodland, stony plain, tidal flats, stony hills, and slopes |
| <b>Diplopoda:</b>        |                                     |   |            |   |
| <b>Polydesmida</b>       |                                     |   |            |   |
| Paradoxosomatidae        | <i>Antichiropus?</i> juvenile       | KBSRE02   | Likely     | Drainage (minor)  |
| <b>Polyxenida</b>        |                                     |   |            |   |
| Polyxenidae              | <i>Unixenus</i> cf. <i>mjobergi</i> | KBSRE05, KBSRE06, KBSRE14, KBSRE15, KBSRE16, KBSRE24, KBSRE25, KBSRE26    | Widespread | Mesas and breakaways, plain, stony hills and slopes, stony plain                        |
|                          | <i>Unixenus attemsi</i>             | KBSRE04, KBSRE08, KBSRE15, KBSRE16, KBSRE25                               | Widespread | Drainage (minor), mesas and breakaways, plain, stony plain                              |

### 4.3 Extrapolation Area

Fauna habitat mapping was extrapolated over a 3,418 ha portion of the area that could not be assessed during field surveys due to access limitations. Three indicative fauna habitats were mapped within the southern portion of the Extrapolation Area (Table 29; Figure 17) and four indicative fauna habitats (excluding cleared areas) were mapped within the northern portion of the Extrapolation Area (Table 30; Figure 18).

**Table 29: Indicative fauna habitats within the southern portion of the Extrapolation Area**

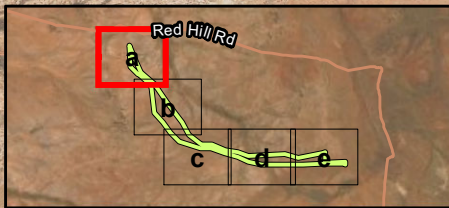
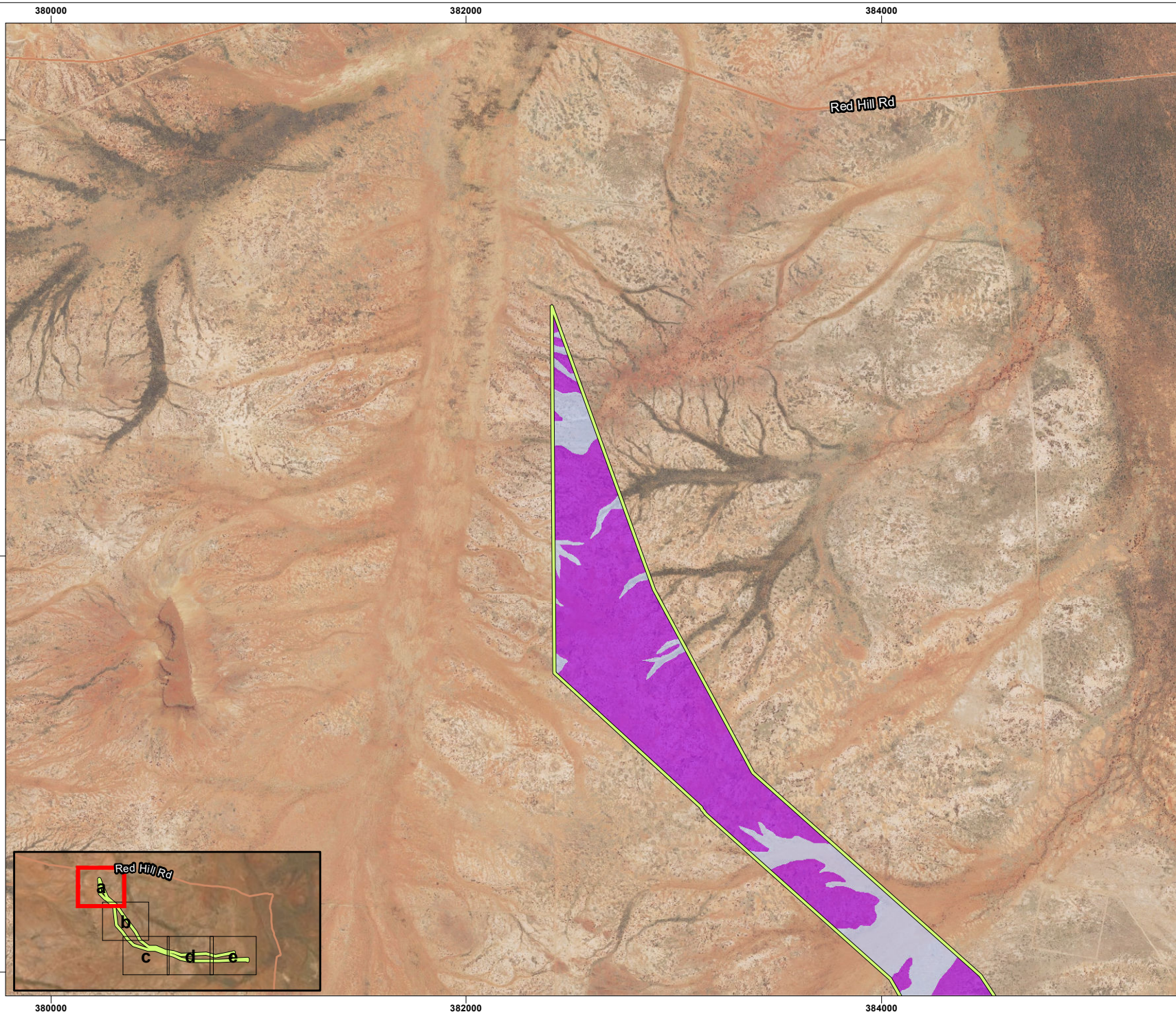
| Fauna habitat                     | Extent within Extrapolation Area |               |
|-----------------------------------|----------------------------------|---------------|
|                                   | Area (ha)                        | %             |
| Stony plain                       | 991                              | 70.93         |
| Drainage line/river/creek (minor) | 248                              | 17.78         |
| Stony hills and slopes            | 158                              | 11.29         |
| <b>Total Area</b>                 | <b>1,397</b>                     | <b>100.00</b> |

**Table 30: Indicative fauna habitats within the northern portion of the Extrapolation Area**

| Fauna habitat                     | Extent within Extrapolation Area |            |
|-----------------------------------|----------------------------------|------------|
|                                   | Area (ha)                        | %          |
| Stony plain                       | 1,186                            | 58.69      |
| Drainage line/river/creek (minor) | 492                              | 24.35      |
| Stony hills and slopes            | 194                              | 9.59       |
| Drainage line/river/creek (major) | 124                              | 6.13       |
| Cleared                           | 25                               | 1.24       |
| <b>Total Area</b>                 | <b>2,021</b>                     | <b>100</b> |



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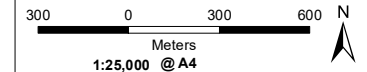
**Legend**

- Red Hill
- Extrapolation Survey Area

**Fauna Habitat - South Haul Route**

- Drainage line/river/creek (minor)
- Stony plain

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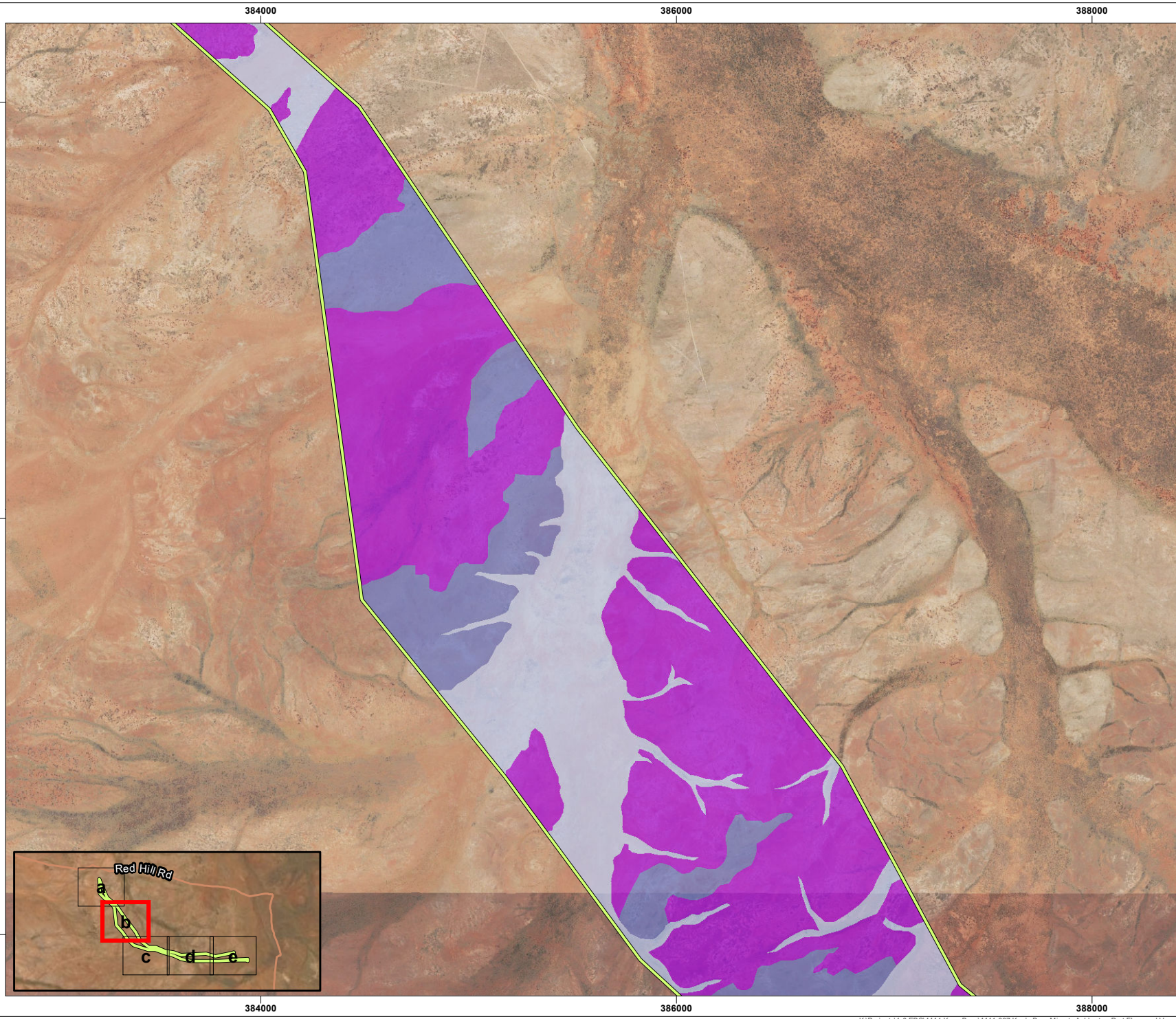
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**Figure 17a Southern Extrapolated Fauna Habitat**



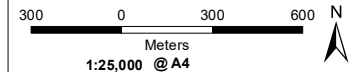
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**Legend**

- Red Hill Extrapolation Survey Area
- Fauna Habitat - South Haul Route**
- Drainage line/river/creek (minor)
- Stony hills and slopes
- Stony plain

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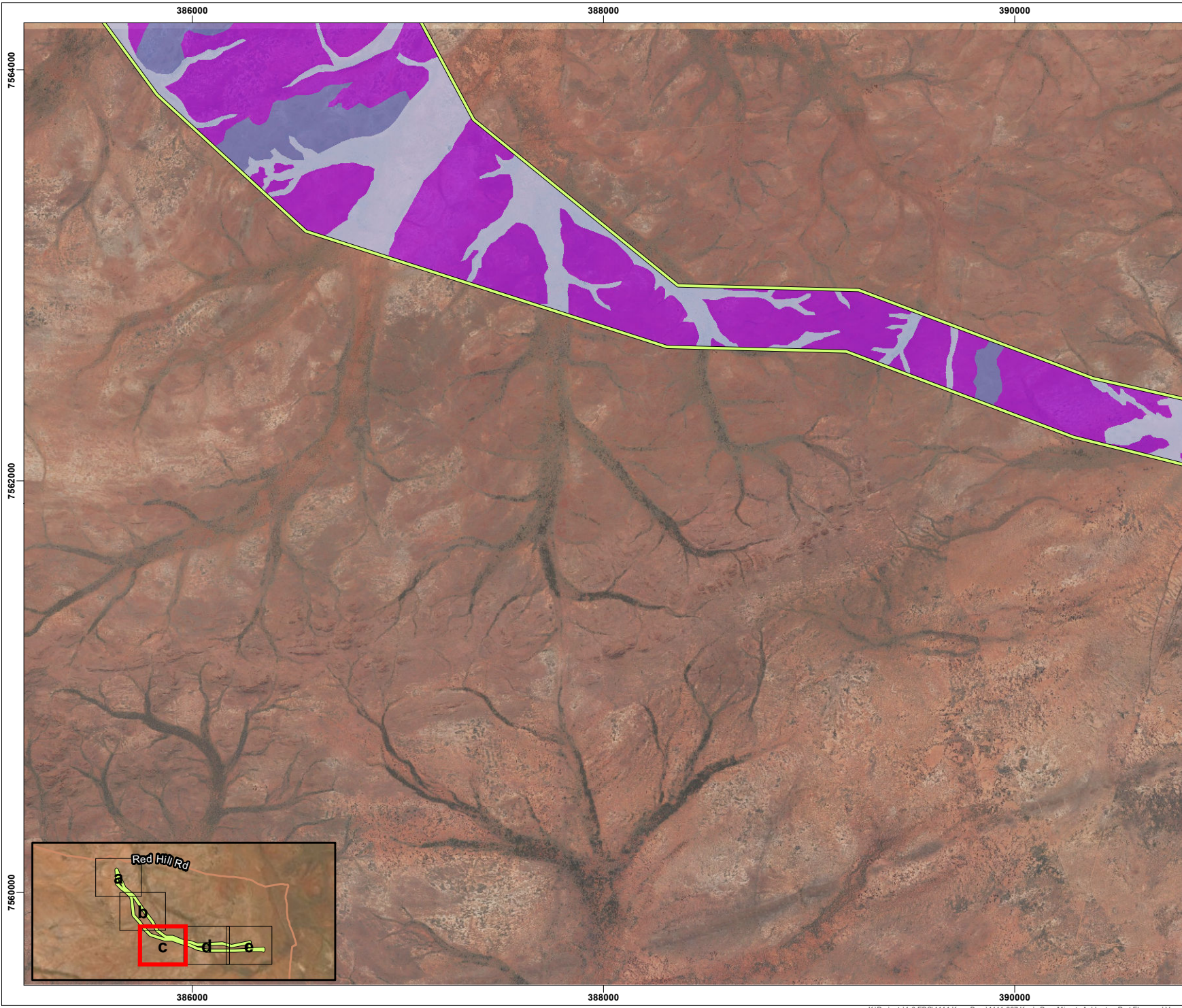
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**Figure 17b Southern Extrapolated Fauna Habitat**



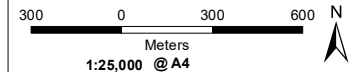
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**Legend**

- Red Hill Extrapolation Survey Area
- Fauna Habitat - South Haul Route**
- Drainage line/river/creek (minor)
- Stony hills and slopes
- Stony plain

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**Figure 17c Southern**  
**Extrapolated Fauna Habitat**



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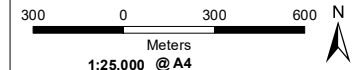
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**Legend**

-  Red Hill
-  Extrapolation Survey Area
- Fauna Habitat - South Haul Route**
-  Drainage line/river/creek (minor)
-  Stony plain

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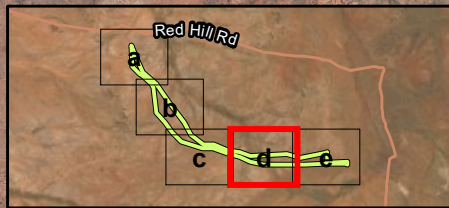
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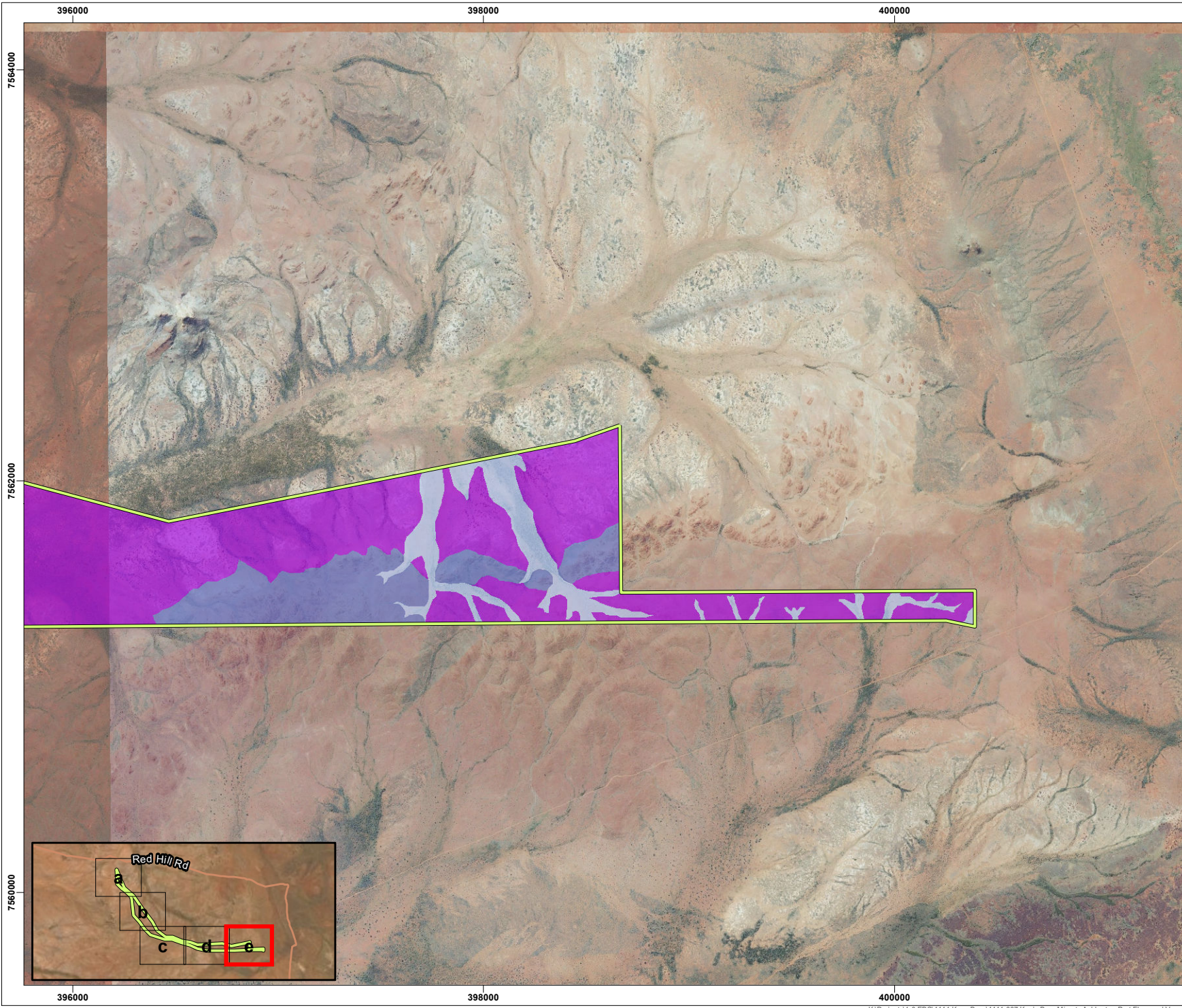
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**Figure 17d Southern**  
**Extrapolated Fauna Habitat**



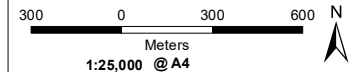




**Legend**

- Red Hill Extrapolation Survey Area
- Fauna Habitat - South Haul Route**
- Drainage line/river/creek (minor)
- Stony hills and slopes
- Stony plain

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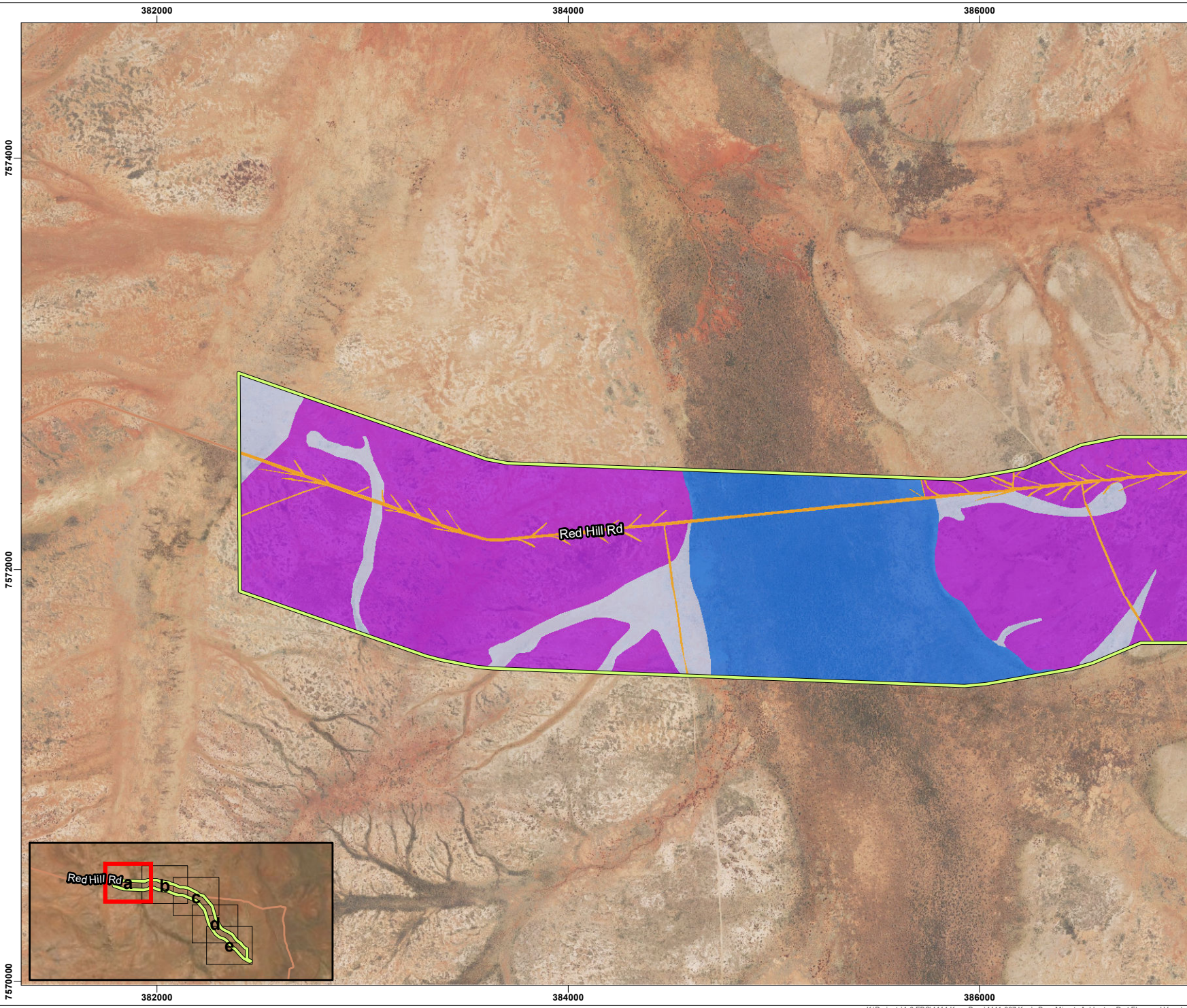
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**Figure 17e Southern Extrapolated Fauna Habitat**



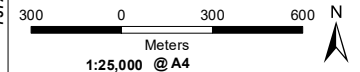
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- Legend**
- Red Hill
  - Northern Extrapolation Survey Area
- Fauna Habitat - North Haul Route**
- Drainage line/river/creek (major)
  - Drainage line/river/creek (minor)
  - Stony plain
  - Cleared

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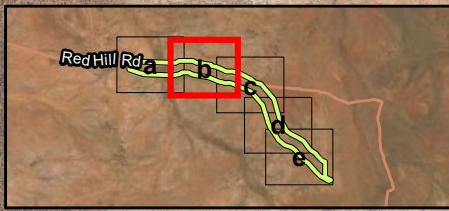
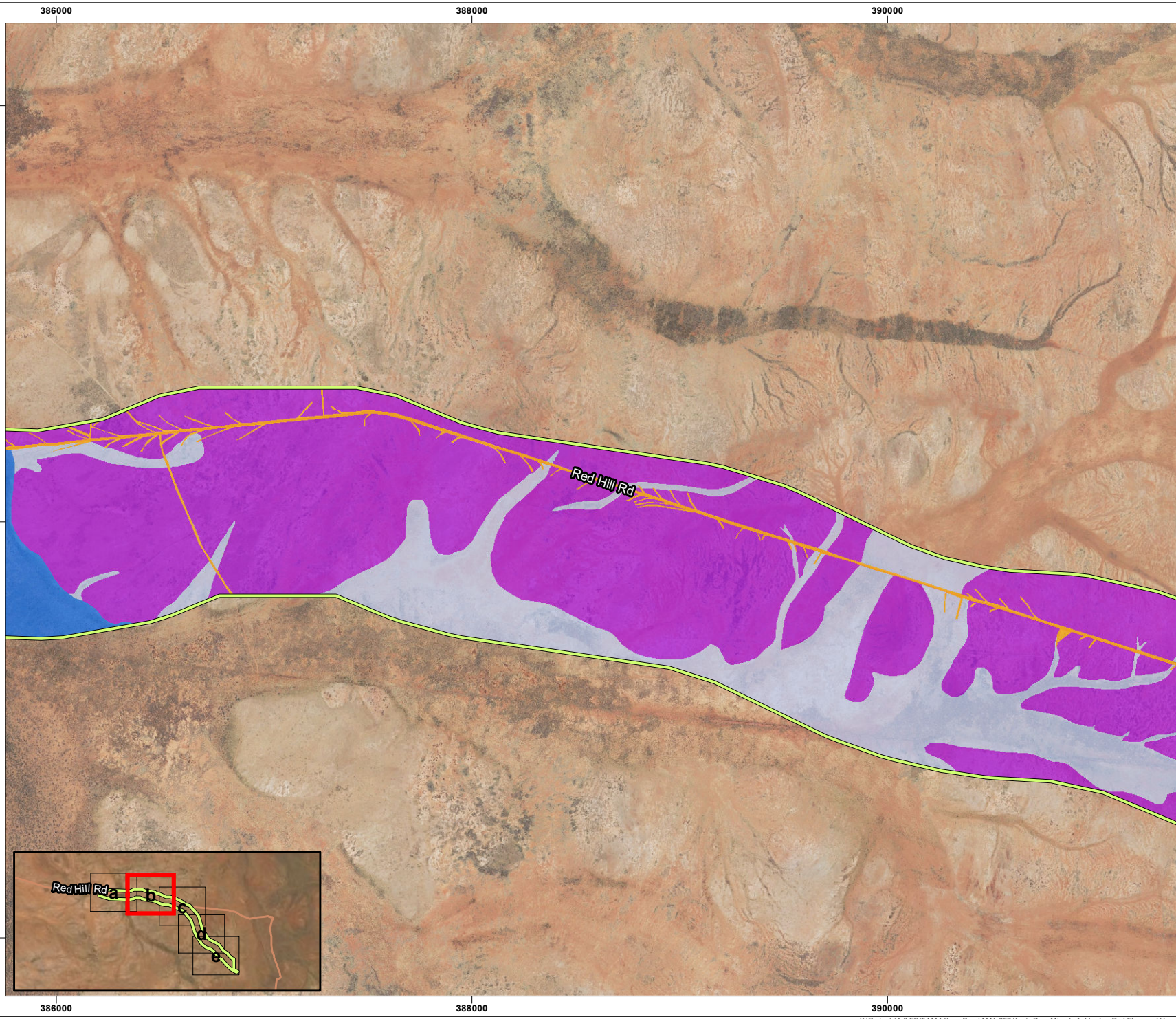
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**Figure 18a Northern Extrapolated Fauna Habitat**



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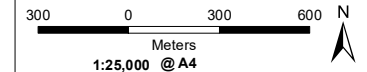


- Legend**
- Red Hill Northern Extrapolation Survey Area
  - Drainage line/river/creek (major)
  - Drainage line/river/creek (minor)
  - Stony plain
  - Cleared

**Fauna Habitat - North Haul Route**

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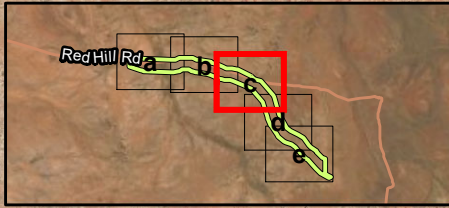
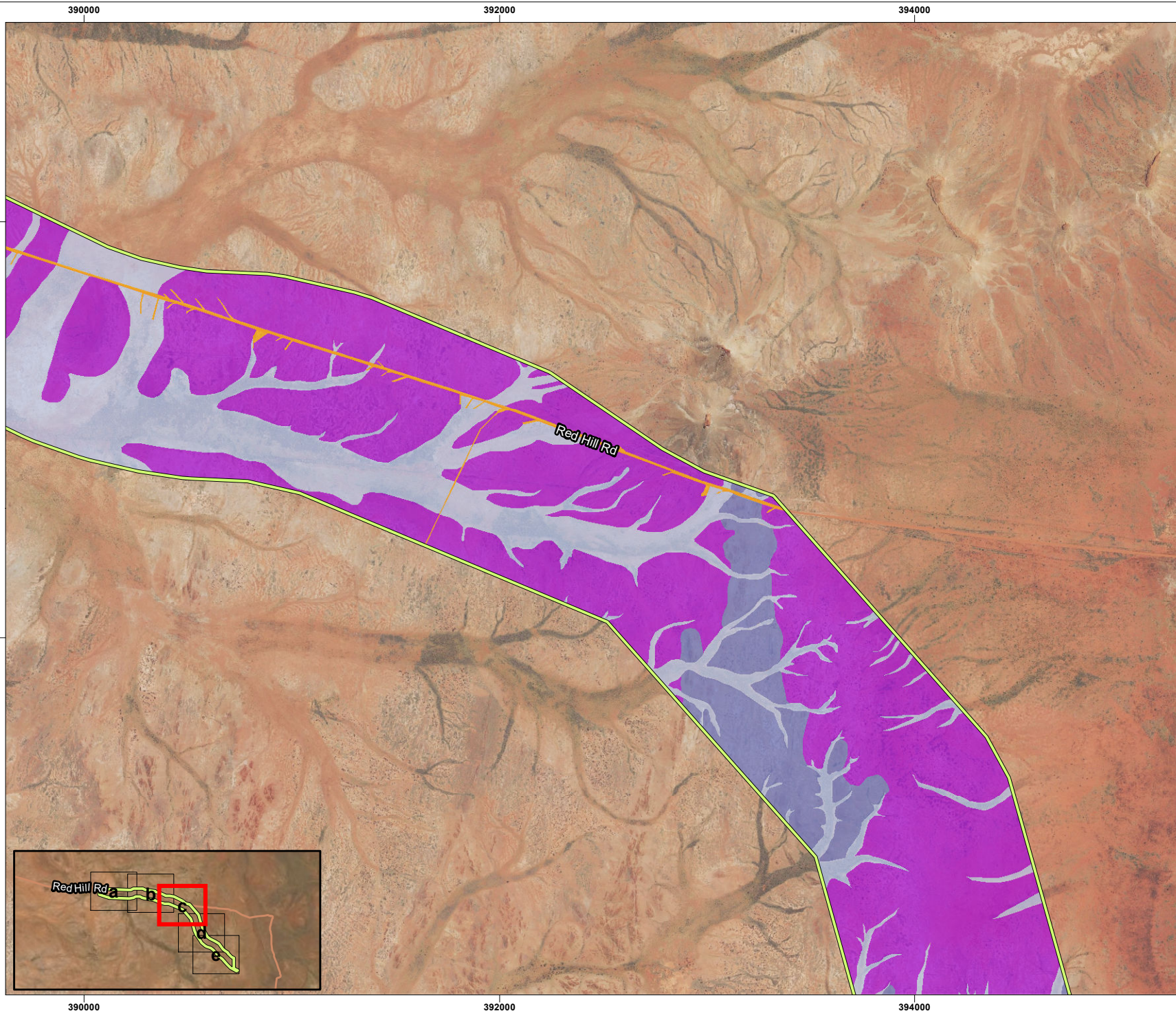
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**Figure 18b Northern Extrapolated Fauna Habitat**



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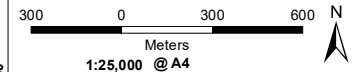


- Legend**
- Red Hill
  - Northern Extrapolation Survey Area
- Fauna Habitat - North Haul Route**
- Drainage line/river/creek (minor)
  - Stony hills and slopes
  - Stony plain
  - Cleared

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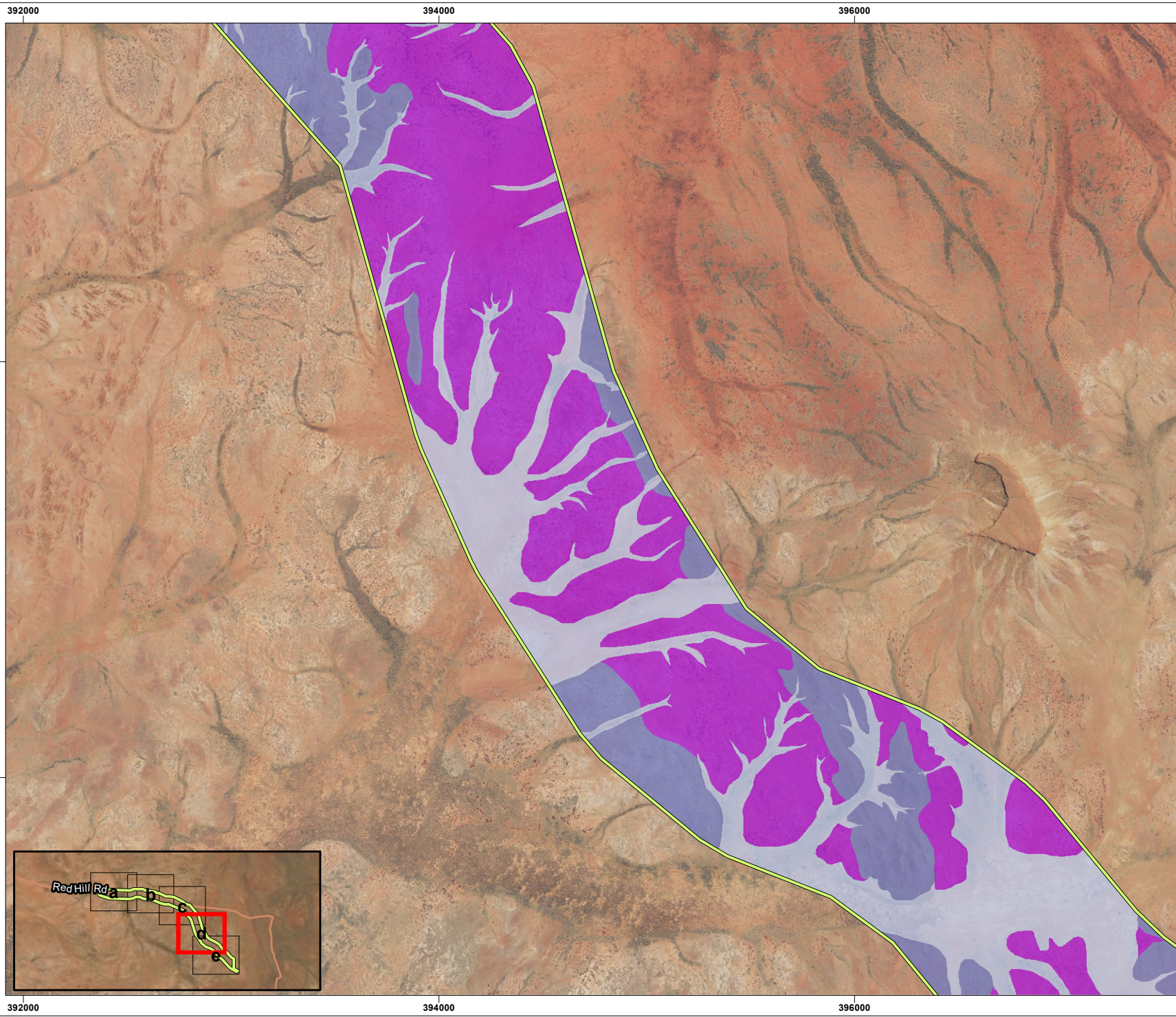
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**Figure 18c Northern Extrapolated Fauna Habitat**



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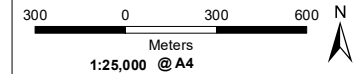
**Legend**

- Red Hill
- Northern Extrapolation Survey Area
- Fauna Habitat - North Haul Route**
  - Drainage line/river/creek (minor)
  - Stony hills and slopes
  - Stony plain

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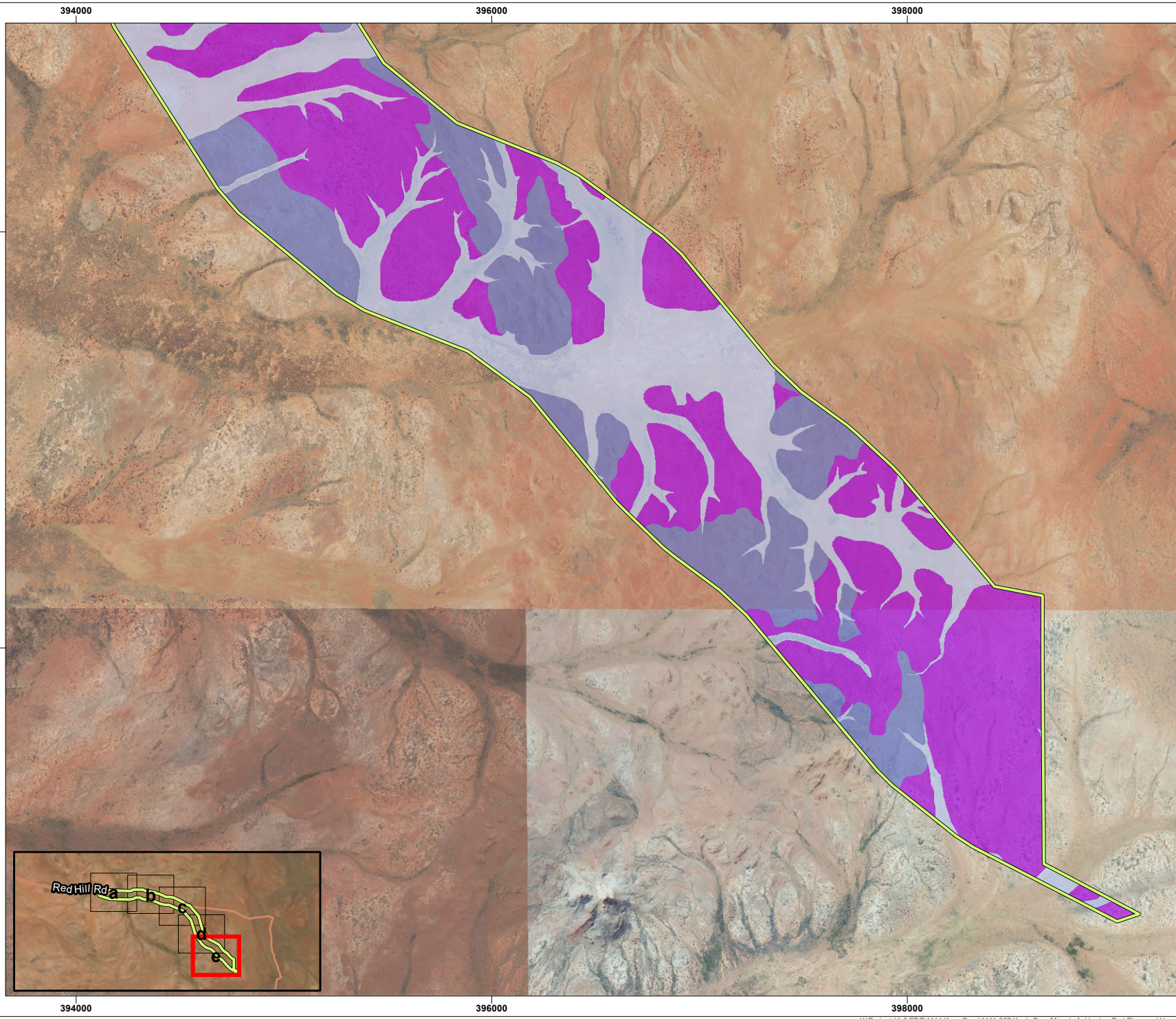
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**Flora and Vegetation Assessment**

**Figure 18d Northern Extrapolated Fauna Habitat**



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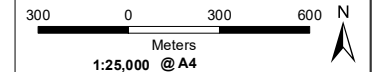


- Legend**
- Red Hill Northern Extrapolation Survey Area
  - Fauna Habitat - North Haul Route**
  - Drainage line/river/creek (minor)
  - Stony hills and slopes
  - Stony plain

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS  
 - LOCALITY MAP SOURCED LANDGATE 2020  
 - OTHER DATA SOURCED LANDGATE 2020  
 - AERIAL PHOTOGRAPHY SOURCED LANDGATE 2020  
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**LOCALITY MAP**



|   |               |                    |               |
|---|---------------|--------------------|---------------|
| PROJECT ID<br>4441 020                                  |               | DATE<br>02/09/2021 |               |
| HORIZONTAL DATUM AND PROJECTION<br>GDA 1994 MGA Zone 50 |               |                    |               |
| CREATED<br>LFV  | CHECKED<br>EW | APPROVED<br>SW     | REVISION<br>0 |

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**Flora and Vegetation Assessment**

**Figure 18e Northern Extrapolated Fauna Habitat**



The plains, stony plains, and sand dune habitats contain less microhabitat opportunities and provide less value to most conservation significant fauna taxa and overall fauna assemblages than the aforementioned habitats. The stony plains may be used by the Western Pebble-mound Mouse as they contain suitably sized pebbles, and sand dune habitats also contain large termite mounds which provide valuable shelter for a wide range of taxa. These habitat types occur extensively both within and outside the Survey Area.

The Mulga woodland habitat contains abundant peeling bark and woody debris, which is likely to provide ample habitat opportunities for small reptiles, however understory vegetation is very sparse. The field surveys did not record any taxa unique to the Mulga woodland habitat and most taxa that occur within it will also use the adjacent drainage line/river/creek habitat.

Habitat condition varied throughout the Survey Area, as would be expected given the large extent of the Survey Area. Mesas and breakaway habitats were consistently in excellent condition. All other habitats showed evidence of degradation caused by cattle grazing and trampling to varying degrees, with highest concentrations of cattle degradation occurring near water sources. Other disturbances, including historical clearing for roads, infrastructure and access tracks, weeds, frequent burning, and rubbish were recorded but were not likely to have major impacts on the fauna assemblage.

#### 5.1.2 Vertebrate Fauna Assemblage

The inventory of fauna taxa recorded during the field surveys is typical for the Pilbara bioregion and aligned with the database search results and previous studies conducted in the region (Biota Environmental Sciences, 2008, 2009, 2015c, 2015b; Astron Environmental Services, 2011a; Rapallo Environmental, 2012a, 2012b; Bat Call WA, 2015; ecologia Environment, 2015; Phoenix Environmental Sciences, 2017; Rio Tinto Iron Ore, 2018).

Species diversity during the initial baseline detailed survey (trip 3) was lower than expected, however this may have been due to a prolonged period of low rainfall prior to the survey. Rainfall was at or below the annual long term average from 2016 to 2020 and less than half the annual long-term average in the twelve months prior to the detailed fauna survey (Bureau of Meteorology, 2021). Species diversity and abundance of conservation significant taxa detected in the initial baseline detailed survey may also have been depressed by recent fires and increased grazing pressure since 2009. A comparison between the species diversity recorded in the current assessment and a selection of previous surveys within the region is provided in Table 31. While it is acknowledged that different surveys undertaken in different locations and years will not necessarily record similar levels of biodiversity, the comparison is provided to demonstrate that the diversity of taxa recorded during the current survey is within the range of what is to be expected within the region.

**Table 31: Comparison of species diversity recorded in previous surveys and current survey**

| Fauna Group  | Biota Environmental Sciences, 2009 | Rapallo Environmental, 2012a | Biota Environmental Sciences, 2015b | Biota Environmental Sciences, 2015c | ecologia Environment, 2015 | 360 Environmental (2021) |
|--------------|------------------------------------|------------------------------|-------------------------------------|-------------------------------------|----------------------------|--------------------------|
| Amphibians   | 0                                  | 2                            | 3                                   | 2                                   | 3                          | 3                        |
| Birds        | 75                                 | 43                           | 48                                  | 55                                  | 81                         | 62                       |
| Mammals      | 25                                 | 8                            | 19                                  | 21                                  | 23                         | 25                       |
| Reptiles     | 49                                 | 29                           | 30                                  | 27                                  | 69                         | 53                       |
| <b>Total</b> | <b>149</b>                         | <b>82</b>                    | <b>100</b>                          | <b>105</b>                          | <b>176</b>                 | <b>144</b>               |

The Survey Area is expansive and traverses a variety of fauna habitats, and therefore not expected to be surveyed in its entirety. The three species accumulation curves created for the major fauna groups, mammals, birds and herpetofauna (reptiles and amphibians) all indicate that additional species may be recorded with increased survey and trapping effort and the observed species richness was also lower than the estimated species richness as predicted by statistical analysis. Despite these results, the fauna assemblage recorded during the fauna surveys are similar to those recorded by other comparable studies and considered to be a representative subset occurring within the Survey Area.

### 5.1.3 Conservation Significant Birds

#### 5.1.3.1 Pacific Swift (*Apus pacificus*)

The Pacific Swift (also called Fork-tailed Swift) is a non-breeding visitor to all states and territories of Australia and is found throughout WA with a preference for coastal areas (Higgins, 1999). The Pacific Swift is almost exclusively aerial, flying from less than 1 m to at least 300 m above ground and probably much higher. The Pacific Swift occupies a large airspace range over varied habitats, ranging from rainforests to semi-deserts (Morcombe, 2003). Although the taxon has the potential to occur in the airspace above the Survey Area, it will not be reliant on the habitats within the Survey Area.

#### 5.1.3.2 Grey Falcon (*Falco hypoleucos*)

The Grey Falcon is an elusive and endemic bird of the arid interior (Schoenjahn, Pavey and Walter, 2019). It is distributed sparsely over Australia's arid and semi-arid zones and is absent from Cape York Peninsula, south of the Great Dividing Range in Victoria, and south of 26°S in WA (Johnstone and Storr, 1998; BirdLife International, 2016). The Grey Falcon is restricted largely to areas with high average temperatures and average annual rainfall of less than 500 mm. It favours lightly timbered and untimbered lowland plains that are crossed by tree lined watercourses, but frequents other habitats, including grassland and sand dune habitats (Johnstone and Storr, 1998; BirdLife International, 2016).

The Grey Falcon typically uses refurbished nests built by other raptors or corvids in eucalypt lined drainage lines and waterholes (Pizzey and Knight, 2013) and may therefore use the drainage line/river/creek habitat for breeding, and all habitats for hunting. The regional



population is unlikely to be dependent on habitats within the Survey Area as these habitats occur more widely in the region outside the Survey Area. Grey Falcons were not recorded during the current assessment, however were recorded 4 km and 7 km east of the Survey Area in 2015 (Biota Environmental Sciences, 2015b, 2015c).

#### 5.1.3.3 Peregrine Falcon (*Falco peregrinus*)

The Peregrine Falcon is an uncommon but wide-ranging bird across Australia (Barrett et al., 2003). It occurs mainly along rivers and ranges as well as wooded watercourses and lakes. It nests primarily on cliffs, granite outcrops and quarries, although is also known to occupy existing raptor and corvid stick nests (Menkhorst et al., 2017). The diet of the Peregrine Falcon has been well studied and primarily includes flocking birds such as parrots, pigeons and on the east coast, European Starlings (Olsen and Fuentes, 2008).

The Peregrine Falcon typically nests on cliff ledges or in refurbished nests built by other raptors or corvids (Pizzey and Knight, 2013) and may therefore use the mesas and breakaways and drainage line/river/creek habitats for breeding, and all habitats for hunting. The regional population is unlikely to be dependent on habitats within the Survey Area as these habitats occur more widely in the region outside the Survey Area. Peregrine Falcons were not recorded during the current assessment, however were recorded 8 km south and 13 km southeast of the Survey Area in 2011 (Rapallo Environmental, 2012a, 2012b).

#### 5.1.3.4 Barn Swallow (*Hirundo rustica*)

The Barn Swallow is only a casual visitor primarily to coastal areas from the Gascoyne north, although the taxon 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. Although the taxon has the potential to occur in the airspace above the Survey Area, it will not be reliant on the habitats within the Survey Area.

#### 5.1.3.5 Waterbirds and Shorebirds

The tidal flats and claypans are intermittently important for waterbirds and shorebirds when seasonally inundated. Waterbirds and shorebirds may also use seasonally inundated drainage lines, rivers, and creeks. The *EPBC Act Policy Statement 3.21 - Industry guidelines for avoiding, assessing and mitigating impacts on EPBC Act listed migratory shorebird species* (Department of the Environment and Energy, 2017) provides the following definition for important habitats for migratory shorebirds:

- Important habitat includes areas recognised as internationally important if:
  - 1% of the individuals in the population of one species or
  - A total abundance of at least 20,000 waterbirds.
- Nationally important habitat is if it regularly supports:
  - 0.1% of the flyway population of a single shorebird species, or
  - 2,000 migratory shorebirds, or
  - Fifteen (or more) migratory shorebirds species.

Shorebird and waterbird surveys conducted for the Wheatstone Project (11 km northwest of the main Survey Area, directly adjacent the PPA Survey Area) and Macedon Project (13 km northwest of the main Survey Area, 3 km southwest of the PPA Survey Area) recorded low waterbird counts (e.g. 10s and occasional 100s), with most migratory species occurring at the Onslow Town Beach (Bancroft and Bamford, 2018). Shorebird and waterbird surveys undertaken for the Wheatstone Project in 2008 and 2009 found that overall numbers of waterbird species were well below any criterion for international significance with the exception of a single species, the Common Tern (*Sterna hirundo*), for which the population threshold for international significance was exceeded (Pendoley Environmental, 2021) This taxa typically forages in near-shore waters and roosts in coastal habitats such as beaches or rock platforms (Menkhorst *et al.*, 2017), which do not occur within the Survey Area.

The Onslow Salt evaporation facilities, located approximately 1 km north of the Survey Area, do not meet any criterion for international significance (BirdLife Australia, 2020), however exceed the threshold of national significance for a single species, the Red-necked Stint (*Calidris ruficollis*) (BirdLife Australia, 2020). It is possible that habitats within the Onslow Salt evaporation facilities have not yet been identified as internationally significant for several species of migratory shorebird due to a lack of structured monitoring data (BirdLife Australia, 2020).

While waterbirds and shorebirds are likely to use habitats within the Survey Area, higher quality habitats occur closer to the coast in locations such as the Onslow Town Beach and Onslow Salt evaporation facilities. Furthermore, tidal flats, claypans and drainage lines, rivers, and creeks occur more widely in the region outside the Survey Area, therefore populations of waterbirds and shorebirds that use habitats within the region are unlikely to be dependent on habitats within the Survey Area.

#### 5.1.4 Conservation Significant Mammals

##### 5.1.4.1 Northern Quoll (*Dasyurus hallucatus*)

The Northern Quoll is a medium-sized carnivorous, nocturnal marsupial that favours rocky areas, taking refuge in rock crevices and using gullies and drainage lines. They have a relatively large home-range size of up to 150 ha for males and 35 ha for females, and males can move up to 1.85 km between den sites in one night (Oakwood, 2000; Department of the Environment, 2016). Northern Quolls reproduce once a year, averaging seven young per litter (Department of the Environment, 2016). They have a short life span, with the females typically only surviving one or two years while the males die off annually following intense physical exertion during the breeding season (Department of the Environment, 2016). The taxon can be locally common, but its range has contracted considerably (Van Dyck and Strahan, 2008).

The mesas and breakaways habitats are likely to be most important for Northern Quolls as they provide denning, shelter, and foraging habitat, while drainage line/river/creek and stony hills and slopes habitats are primarily used for dispersal. These three habitats are considered to represent habitat critical for the survival of the taxon by the EPBC Referral Guidelines (Department of the Environment, 2016). All other habitats may be infrequently used for dispersal or foraging; however, the taxa will not depend on these habitats. Due to the topography of the landscape, it is likely that a population of Northern Quolls relies on mesas at sites KBT02 and KBT05. Individuals can disperse over long distances, but these habitat isolates



are likely to act as a stronghold for the population. Critical habitat is more widespread with greater connectivity towards the eastern end of the Survey Area, near sites KBT01, KBT03 and KBT04.

Spot pattern analysis identified at least 17 individual Northern Quolls within the Survey Area, at 11.11 individuals per 100 camera trap nights, which indicates that high density populations occur within the mesa and breakaways habitats. By comparison, monitoring undertaken by DBCA recorded an average of 3.61 individuals per 100 camera trap nights across fifteen locations throughout the Pilbara region, with only one location, Indee Station, exceeding 11.11 individuals per 100 camera trap nights (Dunlop, Birch and Moore, 2018). According to the EPBC Referral Guidelines, high density populations are important for the long-term survival of the taxon (Department of the Environment, 2016). Furthermore, an adult and juvenile photographed together at site KBT03 indicates that breeding and denning occurs within or directly adjacent the Survey Area. A possible track was also recorded within the sand dunes and swales habitat; however, if this was indeed a Northern Quoll then it was most likely a transient/dispersing individual.

#### 5.1.4.2 Ghost Bat (*Macroderma gigas*)

The Ghost Bat is patchily distributed in small colonies in northern Australia, including the Pilbara and Kimberley in WA, the Top End in the Northern Territory and northeast Queensland. The taxon requires undisturbed roost caves or mineshafts, usually complex systems with several openings (Van Dyck and Strahan, 2008). The taxon eats large insects, geckoes, frogs, small birds, mammals including other bats. The kills are made on the ground or in the air and then taken to a feeding perch, which is usually a rocky overhang or small cave (Van Dyck and Strahan, 2008).

The most important habitat for Ghost Bats is the mesas and breakaways habitat, however all habitats within the Survey Area may be used for hunting. Six calls were detected at sites KBT02 and KBT05, which were consistent with the bats using the mesas for foraging and possibly roosting (R. Bullen, 2021, pers. comm., 19 July). Suitable night roost sites, such as shallow caves or overhangs, were identified throughout the mesas and breakaways habitat type. Most of these shallow caves or overhangs will be lit up with sunlight during the day, however some may be suitable for daytime roosting. No deep, complex caves required for maternity roosts were observed.

#### 5.1.4.3 Short-tailed Mouse (*Leggadina lakedownensis*)

The Short-tailed Mouse has a broad distribution across much of northern Australia and occurs in a range of habitat types. This includes spinifex and *Acacia* on seasonally inundated sandy-clay soils as well as sandy soils and cracking clays to build burrows which they shelter in during the day (Van Dyck and Strahan, 2008). It is generally rare with scattered populations, and very little is known of its biology. According to Van Dyck and Strahan (2008), Pilbara populations occur in stony hummock grassland, however the DBCA Threatened and Priority Fauna database search results show the species recorded in tidal flats and claypan habitats, with 56 records occurring within 1 km of the PPA area and two records near the western end of the main Survey Area, one 1.6 km north and one 5 km west (Figure 11).

The taxon was not detected during the field surveys, however given that it occurs in small, scattered populations it can be difficult to detect without intensive survey effort. Lack of

detection does not rule out its presence. Suitable habitats are widespread and abundant within the Survey Area, including tidal flats, claypans, plains and stony plains. Previous records indicate that the species is most likely to use the vegetation fringing claypans. The regional population is unlikely to be dependent on habitats within the Survey Area as these habitats occur more widely in the region outside the Survey Area.

#### 5.1.4.4 Western Pebble-mound Mouse (*Pseudomys chapmani*)

The Western Pebble-mound Mouse is endemic to the Pilbara, where it builds pebble mounds from small stones. Pebble mounds are restricted to suitable-class stones and are usually found on gentle slopes and spurs that are often vegetated by hard spinifex (Ford and Johnson, 2007; Van Dyck and Strahan, 2008). Active mounds are characterised by the conical shape of the mound with clear, distinct entrance holes (Anstee, 1996). Pebble mounds constructed by the Western Pebble-mound Mouse are found throughout the Pilbara, however studies have shown that not all mounds in an area are occupied by a Pebble-mound Mouse at any one time (Anstee, 1996).

The Western Pebble-mound Mouse mound that was recorded at the boundary of the Survey Area had a clear undulating/conical structure. This suggests that the mound had recently been occupied and maintained. No access hole was visible; therefore, the mound is probably not currently active, however the evidence of recent activity indicates that the taxon currently occupies stony hills and slopes habitat within the Survey Area. The taxon is also likely to inhabit stony plains habitats within the Survey Area, however other habitats within the Survey Area are not suitable because they lack abundant pebbles of the size required to build mounds. The regional population is unlikely to be dependent on habitats within the Survey Area as these habitats occur more widely in the region outside the Survey Area.

#### 5.1.4.5 Common Brushtail Possum (*Trichosurus vulpecula*)

The Common Brushtail Possum uses a wide variety of habitats provided there is sufficient refuge on the ground and tree hollows available (Van Dyck and Strahan, 2008). Suitable habitat is present within the Survey Area, primarily in the drainage line/river/creek habitats. The regional population is unlikely to be dependent on habitats within the Survey Area as these habitats occur more widely in the region outside the Survey Area, particularly to the east of the Survey Area. Most other habitats within the Survey Area do not contain suitable tree hollows or refuge and are therefore unlikely to be used by the species. Overhangs or small caves may be used for refuge in mesa and breakaway habitat.

The taxon was recorded 37 km south of the Survey Area in 2015 (Biota Environmental Sciences, 2015c). This was originally reported as the southernmost record of the Northern Brushtail Possum in WA, (*T. vulpecula arnhemensis*), which is listed as Vulnerable under the BC Act at a subspecies level. Given doubt surrounding the taxonomic status of the Pilbara population of *T. vulpecula*, this report has referred to the taxon at the species level.

#### 5.1.4.6 Pilbara Leaf-nosed Bat (*Rhinonictis aurantia* Pilbara form)

The Pilbara Leaf-nosed Bat was originally considered to be the same species as the Orange Leaf-nosed Bat, which occurs in the Kimberley, Northern Territory, and northwest Queensland, however it is now considered to be a separate form based on morphology. Formal reclassification has been difficult due to the small Pilbara population size (Van Dyck and Strahan,



2008). During the dry season the taxon roosts in deep, warm humid caves or mines and forages nearby; in the wet season the taxon is more widespread and may not require caves for roosting (Menkhorst and Knight, 2004).

Pilbara Leaf-nosed Bats were recorded at four sites within the Survey Area, all of which were within or adjacent mesas and breakaway habitat, which is the most important habitat for the taxon, however other habitats may be used for hunting. Most of the recordings were of low numbers of individual foraging calls. Higher numbers of calls were recorded at the eastern end of the Survey Area at site KBT04, which is consistent with a large roost site is used by many thousands of Pilbara Leaf-nosed Bats at Cane River, approximately 11.5 km southeast of the Survey Area (Bat Call WA, 2015; Biota Environmental Sciences, 2015c). Pilbara Leaf-nosed Bats may also access the Survey Area from an inferred roost at Mungarathoona Creek, approximately 15 km north of the eastern end of the Survey Area (Bat Call WA, 2015; Biota Environmental Sciences, 2015c). Given that deep caves with a suitable microclimate for the taxon were not observed during the field survey, it is unlikely that Pilbara Leaf-nosed Bat maternity roosts occur within the Survey Area, however it is possible that shallow caves or overhangs within the mesa and breakaway habitat could be used for roosting by individuals or small groups during the wet season, when the taxon is not reliant on deep, humid caves.

#### 5.1.5 Conservation Significant Reptiles

##### 5.1.5.1 Pilbara Olive Python (*Liasis olivaceus barroni*)

The Pilbara Olive Python is a large python that occurs in the ranges of the Pilbara, typically in escarpments and gorges where water is present. It generally shelters under rock piles, or under spinifex and often basks on top of rocks (Pearson, 1993, 2003). It is threatened due to its relatively small distribution, low population densities and may be affected by habitat disturbance such as grazing and fire. This taxon is known to frequent water bodies where it ambushes prey (Pearson, 1993). The taxon is extremely difficult to detect. During a systematic survey of a large series of quadrats in the Pilbara, the taxon was only recorded in one quadrat (Doughty *et al.*, 2011). The taxon is known to have large home ranges, particularly for an ambush predator; Pearson *et al.* (2004) recorded an individual with a home range of roughly 450 ha.

An individual Pilbara Olive Python was observed during the field survey in a cattle trough approximately 20 km south of the Survey Area near the Cardo Camp. The cattle trough was adjacent a section of drainage line/river/creek habitat that maintains connectivity with a major drainage line that intersects the Survey Area, therefore it is highly likely that the taxon occurs within the eastern end of the Survey Area where drainage lines are in close proximity to mesas and breakaway habitats, which are the most important habitats for the species. Other habitats within the Survey Area may be used by dispersing or transient individuals but will not be relied upon. While preferred habitats are restricted within the Survey Area, they are widespread and abundant east of the Survey Area towards the Hamersley Range where Pilbara Olive Python records occur. Previous surveys have recorded Pilbara Olive Pythons 6 km east, 7 km east and 8 km south of the Survey Area (Biota Environmental Sciences, 2015b; Rapallo Environmental, 2012a; Rapallo Environmental, 2012b). Given the extent of suitable habitat and occurrence of records in regional areas, the Pilbara Olive Python is highly likely to occur within the Survey Area but is most likely widely distributed in the region.

### 5.1.5.2 Maryan's Keeled Slider (*Lerista planiventralis maryani*)

Maryan's Keeled Slider is found in coastal consolidated dunes and low shrubland on the upper west coast of WA between Onslow and Barradale (Cogger, 2014). Suitable habitat is present within the Survey Area in the sand dunes and swales habitat within the western end of the Survey Area. The species is unlikely to use other habitats within the Survey Area. The regional population is unlikely to be dependent on habitats within the Survey Area as these habitats occur more widely in the region outside the Survey Area.

## 5.2 SRE Invertebrate Fauna

The desktop assessment identified two possible SRE land snail species, however these species are considered to have a low and very low likelihood of occurrence within the Survey Area respectively due to a lack of suitable habitat. Neither of these species were recorded during the SRE survey.

No confirmed SRE or conservation significant species were recorded during the field survey. Six potential SRE invertebrate taxa were recorded, comprising two likely SRE taxa and four possible SRE taxa. The potential SRE species, two isopods (one likely and one possible SRE), two Oligopoda pseudoscorpions (possible SRE), one *Cryptops* centipede (possible SRE) and one *Antichiropus* millipede (likely SRE) and are considered in depth in Sections 5.2.1.1 to 5.2.1.4.

### 5.2.1.1 Crustacea: Isopoda:

#### **Armadillidae: *Buddelundia* sp. '35/36' – Possible SRE**

The armadillid isopod genus *Buddelundia* is abundant in the Pilbara bioregion and contains multiple species including the morphospecies *Buddelundia* sp. '35/46' that part of a species complex including *Buddelundia* 20, 33, 35 and 36. These specimens are morphologically similar to those found in the Hamersley Range (*Buddelundia* 36) and Barrow Island (*Buddelundia* 35). There was insufficient material recorded in the survey, especially large adults, to allow determination beyond *Buddelundia* 35/36, indicating that it could be either of these morphospecies or that *Buddelundia* 35 and 36 and these species are all conspecific (Judd, 2021).

This morphospecies complex has some distinctive characters not found in other *Buddelundia* species and all the morphospecies listed above need further taxonomic work. All show some degree of morphological variation within specimens from the same site, particularly in relation to pigmentation and dorsal setae (Judd, 2021). The morphospecies recorded during the surveys was relatively widely distributed along the Survey Area indicating that is relatively widespread in multiple habitats and unlikely to be restricted to the Survey Area, however given the taxonomic uncertainty it is considered a possible SRE species.

#### **Philosciidae: *Philosciidae* sp. indet. 'Onslow' – Likely SRE**

The specimens collected from a single site (KBSRE15), recorded in plans habitat, are unusual as they do not belong to the most common and widespread Western Australian genus *Laevophiloscia*. They have small dorsal scale-setae which is not commonly encountered in *Philosciidae* from WA (Judd, 2021). These are an undescribed species from an unknown genus. As such and because *Philosciidae* are not common in the Pilbara the morphospecies is considered a likely SRE species.



#### 5.2.1.2 Arachnida: Pseudoscorpionida:

##### **Olpiidae spp. – Possible SRE**

The taxonomy of the Pseudoscorpion family Olpiidae is poorly known and, until further taxonomic resolution has been obtained, all species are considered to be possible SRE species in WA due to a deficiency in data. Molecular sequencing of Pilbara and other Western Australian specimens is currently being undertaken by the WAM and these data will be used in the future to determine if species are widespread or restricted in distribution. It must be stated, however, there is considerable difference between molecular and morphological data, with generic and species boundaries highly uncertain making meaningful results unlikely, except in the medium to long term. Due to the unreliable existing taxonomic framework Olpiid specimens are not accurately identified beyond family level. The specimens recorded during the SRE surveys were recorded at multiple locations during the surveys indicating that their distributions are likely to be wider than the current surveys could determine.

#### 5.2.1.3 Myriapoda: Chilopoda:

##### **Scolopendromorpha: Cryptopidae: *Cryptops* sp. 'Onslow' – Possible SRE**

*Cryptops* is the most speciose genus of the scolopendrid centipede family Cryptopidae, with nearly 200 species described worldwide from both surface and subterranean habitats. All species are blind and often lacking in pigmentation. The genus *Cryptops* currently has five recognised species in Australia (*C. australis*, *C. haasei*, *C. hortensis*, *C. megalopora* and *C. spinipes*) and a single troglomorphic member of the subgenus *Trigonocryptops roeplainsensis* Edgecombe from a cave on the Nullarbor Plain. The taxonomy of Australian species is poorly known and until further taxonomic resolution has been obtained, all species are considered to be possible SRE species in Western Australia due to a deficiency in data. Preliminary molecular data show some wide ranging taxa and some with possible restricted distributions, however, the molecular data is largely incomplete for the state and no conclusive determinations can currently be made (Moulds *et al.*, no date). The specimens recorded during the SRE surveys were recorded at multiple locations during the surveys indicating that their distributions are likely to be wider than the current surveys could determine.

#### 5.2.1.4 Myriapoda: Diplopoda:

##### **Paradoxosmatidae: *Antichiropus*? juvenile – Likely SRE**

Millipedes from the genus *Antichiropus* all have limited powers of dispersal and conservative ecological requirements (Car, Wojcieszek and Harvey, 2013). In addition, the above-ground activity of most *Antichiropus* species are limited to a very small window of opportunity when there is sufficient moisture for them to forage and mate during wetter winter months (Car, Wojcieszek and Harvey, 2013). *Antichiropus* species are, consequently, short range endemics with very small distributions sensu Harvey (2002).

The *Antichiropus* millipede fauna of the Pilbara was revised by Car *et al.* (2019), however, the area near Onslow was excluded from this paper and no records of this genus have previously been recorded from the Survey Area. Two juvenile specimens that are considered to be *Antichiropus* were recorded from a single site (KBSRE02), however, due to their juvenile status further identification is not possible. The specimens were recorded in riparian vegetation on a

major drainage line and as such the morphospecies is anticipated to occur widely throughout the local region especially to the north and south of the Survey Area.



## 6 Conclusion

The key findings of the terrestrial vertebrate fauna and SRE invertebrate fauna surveys were:

- Ten fauna habitats were mapped, of which the mesas and breakaways (0.13% of the Survey Area) and drainage line/river/creek habitats (6.90% of the Survey Area) and represent the most value to conservation significant fauna and overall fauna assemblages. Conservation significant fauna species that are confirmed or most likely to use these habitats are:
  - Grey Falcon (*Falco hypoleucos*) – Vulnerable under BC Act
  - Peregrine Falcon (*Falco peregrinus*) – Other Specially Protected Fauna under BC Act
  - Northern Quoll (*Dasyurus hallucatus*) (confirmed) – Endangered under BC Act and EPBC Act
  - Ghost Bat (*Macroderma gigas*) (confirmed) – Vulnerable under BC Act and EPBC Act
  - Pilbara Leaf-nosed Bat (*Rhinonictis aurantia* Pilbara form) (confirmed) – Vulnerable under BC Act and EPBC Act
  - Pilbara Olive Python (*Liasis olivaceus barroni*) – Vulnerable under BC Act and EPBC Act
- Stony hills and slopes (3.79% of the Survey Area) provide important dispersal and foraging habitat, particularly when adjacent the mesas and breakaways, and are also likely to be used by the Western Pebble-mound Mouse (*Pseudomys chapmani*), which is Priority 4 under BC Act.
- The tidal flats and claypans (5.82% of the Survey Area) provide important seasonal habitat for a large number of conservation significant waterbirds and shorebirds, and the Short-tailed Mouse (*Leggadina lakedownensis*), which is Priority 4 under BC Act, which is known to use the fringes of claypans.
- The plains, stony plains, and sand dune habitats contain less microhabitat opportunities and provide less value to most conservation significant fauna taxa and overall fauna assemblages than the aforementioned habitats.
- Four conservation significant fauna taxa were recorded confirmed to use the Survey Area during the fauna surveys:
  - High density Northern Quoll populations were recorded in the stony hills and slopes and the mesas and breakaway habitats within the Survey Area. A population of Northern Quolls uses mesas within the Survey Area.
  - Ghost Bat records consistent with foraging, potential night roosting and possible day roosting were recorded within mesas and breakaways. No deep, complex caves suitable for maternity roosts were identified.
  - A recently active Western Pebble-mound Mouse mound was recorded on the boundary of the Survey Area in stony hills and slopes habitat.

- Pilbara Leaf-nosed Bat records consistent with foraging were recorded within or adjacent to mesas and breakaways. These records were consistent with known roost sites outside the Survey Area. No roosting was recorded within the Survey Area.
- A fifth conservation significant fauna taxon, the Pilbara Olive Python, was opportunistically recorded approximately 20 km south of the Survey Area. The taxon is therefore likely to occur within the Survey Area, where it will use drainage line/river/creek habitats and mesas and breakaway habitats but is most likely widely distributed in the region.
- The drainage line/river/creek habitats (6.90% of the Survey Area) and mesas and breakaways habitats (0.16% of the Survey Area) are considered to provide moderate SRE habitat suitability. The remaining habitats identified within the Survey Area are considered to provide low SRE habitat suitability.
- No confirmed SRE or conservation significant invertebrate taxa were recorded within the Survey Area.
- Two likely SRE taxa (taxa known to have closely related taxa that show evidence of short-range endemism) were recorded at single locations within the Survey Area:
  - One Philosciid isopod *Philosciidae* sp. indet. 'Onslow', found in plains habitat.
  - One Polydesmid millipede *Antichiropus?* Juvenile, found in minor drainage line/river/creek habitat.
- Four possible SRE taxa (primarily due to the groups being considered data deficient) were recorded within the Survey Area:
  - One armadillid isopod *Buddelundia* sp. '35/36', found in minor drainage line/river/creek, Mulga woodland, and stony plain habitat.
  - One centipede *Cryptops* sp. 'Onslow', found in minor drainage line/river/creek, stony hills and slopes, and stony plain habitat.
  - Two Oligiid pseudoscorpions *Beierolpium* sp., and *Indolpium* sp., found in mesas and breakaways and stony plain habitat, and stony plain, tidal flats, and stony hills and slopes habitat respectively.



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# Appendices

# **Appendix A**

## **Database Searches**



DBCAs Threatened and Priority Fauna Database Search Results

| NAME_SCI           | NAME_COM          | CLASS | CONS CODE | Date       | SOURCE     | CERTAINTY          | METHOD        | TYPE     | COUNT | NAME ID |
|--------------------|-------------------|-------|-----------|------------|------------|--------------------|---------------|----------|-------|---------|
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 16/10/2007 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 23/08/2012 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 15/10/2012 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 15/10/2012 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 30/01/2013 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 26/07/2013 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 27/09/2013 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 27/09/2013 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 28/10/2013 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 04/03/2014 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 20/10/2014 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 20/10/2014 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 02/12/2014 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 22/10/2015 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 20/10/2016 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 08/08/2017 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 05/10/2017 | BIRDATA    |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 23/09/1998 | BIRDATLAS2 |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 28/12/2000 | BIRDATLAS2 |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 12/09/2001 | BIRDATLAS2 |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 14/10/2001 | BIRDATLAS2 |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 19/10/2001 | BIRDATLAS2 |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 19/10/2001 | BIRDATLAS2 |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 19/10/2001 | BIRDATLAS2 |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 19/01/2004 | BIRDATLAS2 |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 05/12/2005 | BIRDATLAS2 |                    |               |          | 0     | 41323   |
| Actitis hypoleucos | Common Sandpiper  | BIRD  | IA        | 22/10/2007 | BIRDATLAS2 |                    |               |          | 0     | 41323   |
| Apus pacificus     | Fork-tailed swift | BIRD  | IA        | 11/03/2007 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1     | 25554   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 15/10/2012 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 15/10/2012 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 30/01/2013 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 26/07/2013 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 27/09/2013 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 27/09/2013 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 14/10/2013 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 17/10/2013 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 18/10/2013 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 28/10/2013 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 04/03/2014 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 25/09/2014 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 20/10/2014 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 20/10/2014 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 20/10/2014 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 27/11/2014 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 02/12/2014 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 10/06/2015 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 22/10/2015 | BIRDATA    |                    |               |          | 0     | 25736   |
| Arenaria interpres | Ruddy turnstone   | BIRD  | IA        | 20/10/2016 | BIRDATA    |                    |               |          | 0     | 25736   |

DBCA Threatened and Priority Fauna Database Search Results

|                    |                        |      |    |            |            |                    |                 |              |       |       |
|--------------------|------------------------|------|----|------------|------------|--------------------|-----------------|--------------|-------|-------|
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 05/10/2017 | BIRDATA    |                    |                 |              | 0     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 08/04/1999 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 20/07/1999 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 21/07/1999 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 06/08/1999 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 11/07/2000 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 02/08/2000 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 19/09/2000 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 14/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 05/12/2005 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 22/10/2007 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 29/04/2008 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 25/10/2010 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 30/01/2013 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 25736 |
| Arenaria interpres | Ruddy turnstone        | BIRD | IA | 17/07/2011 | TFAUNA     | Certain            | Survey          | Day sighting | 1     | 25736 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 15/10/2012 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 15/10/2012 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 30/01/2013 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 27/09/2013 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 28/10/2013 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 04/03/2014 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 01/09/2014 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 20/10/2014 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 20/10/2014 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 20/10/2014 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 25/11/2014 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 22/10/2015 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 20/10/2016 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 05/10/2017 | BIRDATA    |                    |                 |              | 0     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational   | Sighting     | 1     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 19/02/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 14/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 16/02/2002 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 29/04/2008 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 30/01/2013 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24779 |
| Calidris acuminata | Sharp-tailed sandpiper | BIRD | IA | 01/01/2008 | TFAUNA     | Certain            | Targeted survey | Day sighting | 20000 | 24779 |
| Calidris alba      | Sanderling             | BIRD | IA | 15/10/2012 | BIRDATA    |                    |                 |              | 0     | 24780 |
| Calidris alba      | Sanderling             | BIRD | IA | 15/10/2012 | BIRDATA    |                    |                 |              | 0     | 24780 |
| Calidris alba      | Sanderling             | BIRD | IA | 27/09/2013 | BIRDATA    |                    |                 |              | 0     | 24780 |
| Calidris alba      | Sanderling             | BIRD | IA | 14/10/2013 | BIRDATA    |                    |                 |              | 0     | 24780 |
| Calidris alba      | Sanderling             | BIRD | IA | 28/10/2013 | BIRDATA    |                    |                 |              | 0     | 24780 |



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|                     |                  |      |    |            |            |                    |               |          |   |       |
|---------------------|------------------|------|----|------------|------------|--------------------|---------------|----------|---|-------|
| Calidris alba       | Sanderling       | BIRD | IA | 04/03/2014 | BIRDATA    |                    |               |          | 0 | 24780 |
| Calidris alba       | Sanderling       | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          | 0 | 24780 |
| Calidris alba       | Sanderling       | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          | 0 | 24780 |
| Calidris alba       | Sanderling       | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          | 0 | 24780 |
| Calidris alba       | Sanderling       | BIRD | IA | 22/10/2015 | BIRDATA    |                    |               |          | 0 | 24780 |
| Calidris alba       | Sanderling       | BIRD | IA | 05/10/2017 | BIRDATA    |                    |               |          | 0 | 24780 |
| Calidris alba       | sanderling       | BIRD | IA | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational | Sighting | 1 | 24780 |
| Calidris alba       | sanderling       | BIRD | IA | 12/09/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24780 |
| Calidris alba       | sanderling       | BIRD | IA | 14/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24780 |
| Calidris alba       | sanderling       | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24780 |
| Calidris alba       | sanderling       | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24780 |
| Calidris alba       | sanderling       | BIRD | IA | 29/04/2008 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24780 |
| Calidris alba       | sanderling       | BIRD | IA | 25/10/2010 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24780 |
| Calidris alba       | sanderling       | BIRD | IA | 16/11/1981 | WAM_BIRDS  | WAM Vouchered      | Collection    | Specimen | 1 | 24780 |
| Calidris alba       | Sanderling       | BIRD | IA | 16/11/1981 | WAM_BIRDS  |                    |               |          | 0 | 24780 |
| Calidris canutus    | Red knot         | BIRD | EN | 27/09/2013 | BIRDATA    |                    |               |          | 0 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 04/03/2014 | BIRDATA    |                    |               |          | 0 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 20/10/2014 | BIRDATA    |                    |               |          | 0 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 20/10/2014 | BIRDATA    |                    |               |          | 0 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 27/11/2014 | BIRDATA    |                    |               |          | 0 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 02/12/2014 | BIRDATA    |                    |               |          | 0 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 22/10/2015 | BIRDATA    |                    |               |          | 0 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 20/10/2016 | BIRDATA    |                    |               |          | 0 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational | Sighting | 1 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 20/07/1999 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25738 |
| Calidris canutus    | Red knot         | BIRD | EN | 05/12/2005 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25738 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 15/10/2012 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 15/10/2012 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 14/10/2013 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 17/10/2013 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 28/10/2013 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 25/09/2014 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 20/10/2014 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 20/10/2014 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 20/10/2014 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 27/11/2014 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 02/12/2014 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 22/10/2015 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 20/10/2016 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | Curlew Sandpiper | BIRD | CR | 05/10/2017 | BIRDATA    |                    |               |          | 0 | 24784 |
| Calidris ferruginea | curlew sandpiper | BIRD | CR | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational | Sighting | 1 | 24784 |
| Calidris ferruginea | curlew sandpiper | BIRD | CR | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24784 |
| Calidris ferruginea | curlew sandpiper | BIRD | CR | 20/07/1999 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24784 |
| Calidris ferruginea | curlew sandpiper | BIRD | CR | 11/07/2000 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24784 |
| Calidris ferruginea | curlew sandpiper | BIRD | CR | 14/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24784 |
| Calidris ferruginea | curlew sandpiper | BIRD | CR | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24784 |
| Calidris ferruginea | curlew sandpiper | BIRD | CR | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24784 |
| Calidris ferruginea | curlew sandpiper | BIRD | CR | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 24784 |

DBCA Threatened and Priority Fauna Database Search Results

|                     |                    |      |    |            |            |                    |                 |              |       |       |
|---------------------|--------------------|------|----|------------|------------|--------------------|-----------------|--------------|-------|-------|
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 16/02/2002 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 08/06/2002 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 05/12/2005 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 01/10/1980 | WAM_BIRDS  | WAM Vouchered      | Collection      | Specimen     | 1     | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 01/10/1980 | WAM_BIRDS  | WAM Vouchered      | Collection      | Specimen     | 1     | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 01/10/1980 | WAM_BIRDS  | WAM Vouchered      | Collection      | Specimen     | 1     | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 01/10/1980 | WAM_BIRDS  | WAM Vouchered      | Collection      | Specimen     | 1     | 24784 |
| Calidris ferruginea | Curlew Sandpiper   | BIRD | CR | 01/10/1980 | WAM_BIRDS  |                    |                 |              | 0     | 24784 |
| Calidris ferruginea | Curlew Sandpiper   | BIRD | CR | 01/10/1980 | WAM_BIRDS  |                    |                 |              | 0     | 24784 |
| Calidris ferruginea | Curlew Sandpiper   | BIRD | CR | 01/10/1980 | WAM_BIRDS  |                    |                 |              | 0     | 24784 |
| Calidris ferruginea | Curlew Sandpiper   | BIRD | CR | 01/10/1980 | WAM_BIRDS  |                    |                 |              | 0     | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 16/11/1981 | WAM_BIRDS  | WAM Vouchered      | Collection      | Specimen     | 1     | 24784 |
| Calidris ferruginea | Curlew Sandpiper   | BIRD | CR | 16/11/1981 | WAM_BIRDS  |                    |                 |              | 0     | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 01/01/2008 | TFAUNA     | Certain            | Targeted survey | Day sighting | 25000 | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 01/01/2008 | TFAUNA     | Certain            | Targeted survey | Day sighting | 25000 | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 01/01/2008 | TFAUNA     | Certain            | Targeted survey | Day sighting | 25000 | 24784 |
| Calidris ferruginea | curlew sandpiper   | BIRD | CR | 01/01/2008 | TFAUNA     | Certain            | Targeted survey | Day sighting | 25000 | 24784 |
| Calidris melanotos  | Pectoral Sandpiper | BIRD | IA | 02/12/2014 | BIRDATA    |                    |                 |              | 0     | 24786 |
| Calidris melanotos  | pectoral sandpiper | BIRD | IA | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24786 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 15/10/2012 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 15/10/2012 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 30/01/2013 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 27/09/2013 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 14/10/2013 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 17/10/2013 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 18/10/2013 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 28/10/2013 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 04/03/2014 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 20/10/2014 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 20/10/2014 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 20/10/2014 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 25/11/2014 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 27/11/2014 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 02/12/2014 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 02/12/2014 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 10/06/2015 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 22/10/2015 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 20/10/2016 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 05/10/2017 | BIRDATA    |                    |                 |              | 0     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 20/07/1999 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 21/07/1999 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 11/07/2000 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 11/07/2000 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 19/09/2000 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 19/02/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 14/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis | Red-necked stint   | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |



DBCFA Threatened and Priority Fauna Database Search Results

|                          |  |      |    |            |            |                    |                 |              |       |       |
|--------------------------|--|------|----|------------|------------|--------------------|-----------------|--------------|-------|-------|
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 16/02/2002 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 19/01/2004 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 08/11/2005 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 05/12/2005 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 29/04/2008 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 25/10/2010 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 30/01/2013 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24788 |
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 16/11/1981 | WAM_BIRDS  | WAM Vouchered      | Collection      | Specimen     | 1     | 24788 |
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 16/11/1981 | WAM_BIRDS  |                    |                 |              | 0     | 24788 |
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 17/07/2011 | TFAUNA     | Certain            | Survey          | Day sighting | 1     | 24788 |
| Calidris ruficollis      | Red-necked stint                       | BIRD | IA | 01/01/2008 | TFAUNA     | Certain            | Targeted survey | Day sighting | 23000 | 24788 |
| Calidris subminuta       | Long-toed Stint                        | BIRD | IA | 20/10/2014 | BIRDATA    |                    |                 |              | 0     | 24789 |
| Calidris subminuta       | Long-toed Stint                        | BIRD | IA | 25/11/2014 | BIRDATA    |                    |                 |              | 0     | 24789 |
| Calidris subminuta       | Long-toed Stint                        | BIRD | IA | 22/10/2015 | BIRDATA    |                    |                 |              | 0     | 24789 |
| Calidris subminuta       | Long-toed Stint                        | BIRD | IA | 25/08/1981 | BIRDATLAS1 | Moderately certain | Observational   | Sighting     | 1     | 24789 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 15/10/2012 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 15/10/2012 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 27/09/2013 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 14/10/2013 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 17/10/2013 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 18/10/2013 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 28/10/2013 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 04/03/2014 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 25/09/2014 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 20/10/2014 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 27/11/2014 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 02/12/2014 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 22/10/2015 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 20/10/2016 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 05/10/2017 | BIRDATA    |                    |                 |              | 0     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational   | Sighting     | 1     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 20/07/1999 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 19/09/2000 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 12/09/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 19/01/2004 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24790 |
| Calidris tenuirostris    | Great knot                             | BIRD | CR | 05/12/2005 | BIRDATLAS2 | Moderately certain | Observational   | Sighting     | 1     | 24790 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 16/10/2007 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 15/10/2012 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 15/10/2012 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 30/01/2013 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 27/09/2013 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 17/10/2013 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 18/10/2013 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 28/10/2013 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 20/10/2014 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 27/11/2014 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 02/12/2014 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 10/06/2015 | BIRDATA    |                    |                 |              | 0     | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 22/10/2015 | BIRDATA    |                    |                 |              | 0     | 25575 |

DBCA Threatened and Priority Fauna Database Search Results

|                          |  |      |    |            |            |                    |               |          |   |       |
|--------------------------|--|------|----|------------|------------|--------------------|---------------|----------|---|-------|
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 20/10/2016 | BIRDATA    |                    |               |          | 0 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 05/10/2017 | BIRDATA    |                    |               |          | 0 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 20/07/1999 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 19/09/2000 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 05/02/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 14/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 05/12/2005 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 22/10/2007 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 29/04/2008 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 25/10/2010 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius leschenaultii | Greater sand plover, large sand plover | BIRD | VU | 30/01/2013 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25575 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 15/10/2012 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 15/10/2012 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 30/01/2013 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 14/10/2013 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 28/10/2013 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 20/10/2014 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 27/11/2014 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 02/12/2014 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 10/06/2015 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 22/10/2015 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 20/10/2016 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 05/10/2017 | BIRDATA    |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 05/07/1981 | BIRDATLAS1 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 21/07/1999 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 12/09/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 14/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 19/01/2004 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 05/12/2005 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 30/01/2013 | BIRDATLAS2 | Moderately certain | Observational | Sighting | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 26/03/1982 | WAM_BIRDS  | WAM Vouchered      | Collection    | Specimen | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 04/04/1982 | WAM_BIRDS  | WAM Vouchered      | Collection    | Specimen | 1 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 26/03/1982 | WAM_BIRDS  |                    |               |          | 0 | 25576 |
| Charadrius mongolus      | Lesser Sand Plover                     | BIRD | EN | 04/04/1982 | WAM_BIRDS  |                    |               |          | 0 | 25576 |
| Charadrius veredus       | Oriental Plover                        | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          | 0 | 24378 |
| Charadrius veredus       | Oriental Plover                        | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          | 0 | 24378 |
| Charadrius veredus       | Oriental Plover                        | BIRD | IA | 28/10/2013 | BIRDATA    |                    |               |          | 0 | 24378 |
| Charadrius veredus       | Oriental Plover                        | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          | 0 | 24378 |
| Charadrius veredus       | Oriental Plover                        | BIRD | IA | 22/10/2015 | BIRDATA    |                    |               |          | 0 | 24378 |
| Charadrius veredus       | oriental plover                        | BIRD | IA | 04/09/1978 | BIRDATLAS1 | Moderately certain | Observational | Sighting | 1 | 24378 |
| Charadrius veredus       | oriental plover                        | BIRD | IA | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational | Sighting | 1 | 24378 |



DBCA Threatened and Priority Fauna Database Search Results

|                        |   |         |    |            |              |                    |                        |              |       |       |
|------------------------|---|---------|----|------------|--------------|--------------------|------------------------|--------------|-------|-------|
| Charadrius veredus     | oriental plover                                       | BIRD    | IA | 23/09/1998 | BIRDATLAS2   | Moderately certain | Observational          | Sighting     | 1     | 24378 |
| Charadrius veredus     | oriental plover                                       | BIRD    | IA | 19/10/2001 | BIRDATLAS2   | Moderately certain | Observational          | Sighting     | 1     | 24378 |
| Charadrius veredus     | oriental plover                                       | BIRD    | IA | 19/10/2001 | BIRDATLAS2   | Moderately certain | Observational          | Sighting     | 1     | 24378 |
| Charadrius veredus     | oriental plover                                       | BIRD    | IA | 01/01/2008 | TFAUNA       | Certain            | Targeted survey        | Day sighting | 29900 | 24378 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 16/10/2007 | BIRDATA      |                    |                        |              | 0     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 28/10/2013 | BIRDATA      |                    |                        |              | 0     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 20/10/2014 | BIRDATA      |                    |                        |              | 0     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 22/10/2015 | BIRDATA      |                    |                        |              | 0     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 20/10/2016 | BIRDATA      |                    |                        |              | 0     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 19/02/2001 | BIRDATLAS2   | Moderately certain | Observational          | Sighting     | 1     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 18/10/2001 | BIRDATLAS2   | Moderately certain | Observational          | Sighting     | 1     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 19/10/2001 | BIRDATLAS2   | Moderately certain | Observational          | Sighting     | 1     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 19/10/2001 | BIRDATLAS2   | Moderately certain | Observational          | Sighting     | 1     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 05/12/2005 | BIRDATLAS2   | Moderately certain | Observational          | Sighting     | 1     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 29/04/2008 | BIRDATLAS2   | Moderately certain | Observational          | Sighting     | 1     | 41332 |
| Chlidonias leucopterus | White-winged black tern, white-winged tern            | BIRD    | IA | 25/10/2010 | BIRDATLAS2   | Moderately certain | Observational          | Sighting     | 1     | 41332 |
| Ctenotus angusticeps   | Airlie Island Ctenotus, Northwestern coastal Ctenotus | REPTILE | P3 | 02/05/2012 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 25024 |
| Ctenotus angusticeps   | Airlie Island Ctenotus, Northwestern coastal Ctenotus | REPTILE | P3 | 03/05/2012 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 25024 |
| Ctenotus angusticeps   | Airlie Island Ctenotus, Northwestern coastal Ctenotus | REPTILE | P3 | 03/11/2010 | WAM_REPTILES | WAM Vouchered      | Collection             | Specimen     | 1     | 25024 |
| Ctenotus angusticeps   | Airlie Island Ctenotus, Northwestern coastal Ctenotus | REPTILE | P3 | 03/11/2010 | WAM_REPTILES |                    |                        |              | 0     | 25024 |
| Ctenotus angusticeps   | Airlie Island Ctenotus, Northwestern coastal Ctenotus | REPTILE | P3 | 03/05/2012 | WAM_REPTILES | WAM Vouchered      | Collection             | Specimen     | 1     | 25024 |
| Ctenotus angusticeps   | Airlie Island Ctenotus, Northwestern coastal Ctenotus | REPTILE | P3 | 03/05/2012 | WAM_REPTILES |                    |                        |              | 0     | 25024 |
| Ctenotus angusticeps   | Airlie Island Ctenotus, Northwestern coastal Ctenotus | REPTILE | P3 | 15/12/2011 | TFAUNA       | Certain            | Opportunistic sighting | Day sighting | 1     | 25024 |
| Ctenotus angusticeps   | Airlie Island Ctenotus, Northwestern coastal Ctenotus | REPTILE | P3 | 15/12/2011 | TFAUNA       | Certain            | Opportunistic sighting | Day sighting | 1     | 25024 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 17/02/2012 | FAUNASURVEY  | Moderately certain | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 17/02/2012 | FAUNASURVEY  | Moderately certain | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 06/05/2012 | FAUNASURVEY  | Moderately certain | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 06/05/2012 | FAUNASURVEY  | Moderately certain | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 03/06/2012 | FAUNASURVEY  | Moderately certain | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 03/06/2012 | FAUNASURVEY  | Moderately certain | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 03/06/2012 | FAUNASURVEY  | Moderately certain | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 31/05/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 01/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 01/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 01/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 02/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 02/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 03/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 03/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 03/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 03/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 03/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 03/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 03/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 04/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 04/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 04/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 04/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 05/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 05/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 05/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |
| Dasycercus blythi      | Brush-tailed mulgara                                  | MAMMAL  | P4 | 05/06/2014 | FAUNASURVEY  | Certain            | Survey                 | Unknown      | 1     | 30903 |





























DBCAs Threatened and Priority Fauna Database Search Results

|                     |                |        |    |            |             |              |                        |                   |    |       |
|---------------------|----------------|--------|----|------------|-------------|--------------|------------------------|-------------------|----|-------|
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 21/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 21/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 21/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 21/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 22/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 22/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 23/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 23/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 23/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 23/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 24/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 24/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 24/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 24/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 25/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 25/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 25/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 25/07/2015 | FAUNASURVEY | Certain      | Survey                 | Unknown           | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 01/06/2010 | PILBTFAUNA  | Very certain | Targeted survey        | Caught or trapped | 36 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 09/06/2010 | PILBTFAUNA  | Very certain | Opportunistic sighting | Caught or trapped | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 21/06/2010 | PILBTFAUNA  | Not defined  | Opportunistic sighting | Sighting          | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 02/07/2010 | PILBTFAUNA  | Not Sure     | Opportunistic sighting | Secondary sign    | 0  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 15/07/2010 | PILBTFAUNA  | Not defined  | Opportunistic sighting | Dead              | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 01/05/2011 | PILBTFAUNA  | Very certain | Targeted survey        | Caught or trapped | 2  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 18/05/2011 | PILBTFAUNA  | Not defined  | Unknown                | Sighting          | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 29/06/2011 | PILBTFAUNA  | Not defined  | Opportunistic sighting | Sighting          | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 04/07/2011 | PILBTFAUNA  | Not defined  | Opportunistic sighting | Sighting          | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 01/08/2011 | PILBTFAUNA  | Very certain | Targeted survey        | Caught or trapped | 2  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 13/08/2011 | PILBTFAUNA  | Not defined  | Opportunistic sighting | Sighting          | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 07/09/2011 | PILBTFAUNA  | Very certain | Survey                 | Caught or trapped | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 14/01/2012 | PILBTFAUNA  | Not defined  | Opportunistic sighting | Sighting          | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 19/01/2012 | PILBTFAUNA  | Very certain | Survey                 | Caught or trapped | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 04/04/2012 | PILBTFAUNA  | Certain      | Opportunistic sighting |                   | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 01/05/2012 | PILBTFAUNA  | Very certain | Targeted survey        | Caught or trapped | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 09/05/2012 | PILBTFAUNA  | Very certain | Targeted survey        | Remote camera     | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 09/05/2012 | PILBTFAUNA  | Very certain | Targeted survey        | Remote camera     | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 09/05/2012 | PILBTFAUNA  | Very certain | Targeted survey        | Remote camera     | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 10/05/2012 | PILBTFAUNA  | Very certain | Survey                 | Caught or trapped | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 10/05/2012 | PILBTFAUNA  | Very certain | Targeted survey        | Remote camera     | 1  | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 11/05/2012 | PILBTFAUNA  | Very certain | Survey                 | Caught or trapped | 1  | 24093 |

DBCFA Threatened and Priority Fauna Database Search Results

|                     |                |        |    |            |            |              |                        |                   |   |       |
|---------------------|----------------|--------|----|------------|------------|--------------|------------------------|-------------------|---|-------|
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 06/08/2012 | PILBTFAUNA | Not defined  | Opportunistic sighting | Sighting          | 2 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 29/08/2012 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 26/09/2012 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 27/09/2012 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 28/09/2012 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 30/09/2012 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 25/10/2012 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 05/01/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 05/01/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Night sighting    | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 14/01/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Night sighting    | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 18/01/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Sighting          | 2 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 19/01/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 25/04/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 27/04/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 01/05/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 19/05/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 16/06/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Dawn sighting     | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 08/07/2013 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 25/07/2013 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 10/10/2013 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 11/10/2013 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 28/10/2013 | PILBTFAUNA | Very certain | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 06/12/2013 | PILBTFAUNA | Not defined  | Opportunistic sighting | Night sighting    | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 09/03/2014 | PILBTFAUNA | Not defined  | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 12/03/2014 | PILBTFAUNA | Not defined  | Opportunistic sighting | Dawn sighting     | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 14/03/2014 | PILBTFAUNA | Not defined  | Opportunistic sighting | Sighting          | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 14/03/2014 | PILBTFAUNA | Not defined  | Opportunistic sighting | Night sighting    | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 10/05/2014 | PILBTFAUNA | Very certain | Targeted survey        | Dead              | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 18/07/2014 | PILBTFAUNA | Certain      | Targeted survey        | Secondary sign    | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 19/08/2014 | PILBTFAUNA | Very certain | Targeted survey        | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 21/08/2014 | PILBTFAUNA | Very certain | Targeted survey        | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 22/08/2014 | PILBTFAUNA | Very certain | Targeted survey        | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 24/02/2015 | PILBTFAUNA | Certain      | Targeted survey        | Secondary sign    | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 24/02/2015 | PILBTFAUNA | Certain      | Targeted survey        | Secondary sign    | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 24/02/2015 | PILBTFAUNA | Certain      | Targeted survey        | Secondary sign    | 1 | 24093 |
| Dasyurus hallucatus | Northern quoll | MAMMAL | EN | 24/02/2015 | PILBTFAUNA | Certain      | Targeted survey        | Secondary sign    | 1 | 24093 |





DBCAs Threatened and Priority Fauna Database Search Results

|                       |                    |        |    |            |             |                    |                        |                   |   |       |
|-----------------------|--------------------|--------|----|------------|-------------|--------------------|------------------------|-------------------|---|-------|
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 20/08/2018 | WL_REG17    |                    | Survey                 |                   | 0 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 30/09/2018 | WL_REG17    |                    | Survey                 |                   | 0 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 01/11/2018 | WL_REG17    |                    | Survey                 |                   | 0 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 11/09/2018 | WL_REG17    |                    | Survey                 |                   | 0 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 18/10/2018 | WL_REG17    |                    | Survey                 |                   | 0 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 07/09/2018 | WL_REG17    |                    | Survey                 |                   | 0 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 01/01/2007 | TFAUNA      | Certain            | Survey                 | Day sighting      | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 09/03/2014 | TFAUNA      | Moderately certain | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 17/05/2012 | TFAUNA      | Certain            | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 09/07/2012 | TFAUNA      | Certain            | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 07/05/2012 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 07/05/2012 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 07/05/2012 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 07/05/2012 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 13/05/2011 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 13/05/2011 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 13/05/2011 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 09/05/2012 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 13/05/2011 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 13/05/2011 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 15/05/2011 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 15/05/2011 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 10/06/2011 | TFAUNA      | Certain            | Survey                 | Caught or trapped | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 14/09/2012 | TFAUNA      | Certain            | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 19/11/2012 | TFAUNA      | Certain            | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 19/01/2013 | TFAUNA      | Certain            | Opportunistic sighting | Dead              | 2 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 01/05/2013 | TFAUNA      | Certain            | Opportunistic sighting | Dead              | 3 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 19/05/2013 | TFAUNA      | Certain            | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 20/05/2013 | TFAUNA      | Certain            | Opportunistic sighting | Dead              | 1 | 24093 |
| Dasyurus hallucatus   | Northern quoll     | MAMMAL | EN | 29/08/2013 | TFAUNA      | Certain            | Opportunistic sighting | Dead              | 1 | 24093 |
| Falco hypoleucos      | Grey falcon        | BIRD   | VU | 23/06/2013 | BIRDATA     |                    |                        |                   | 0 | 24473 |
| Falco hypoleucos      | Grey falcon        | BIRD   | VU | 23/06/2013 | BIRDATLAS2  | Moderately certain | Observational          | Sighting          | 1 | 24473 |
| Falco hypoleucos      | Grey falcon        | BIRD   | VU | 24/05/2016 | FAUNASURVEY | Certain            | Survey                 | Unknown           | 1 | 24473 |
| Fregata ariel         | Lesser frigatebird | BIRD   | IA | 19/10/2016 | BIRDATA     |                    |                        |                   | 0 | 24478 |
| Fregata ariel         | Lesser frigatebird | BIRD   | IA | 20/10/2016 | BIRDATA     |                    |                        |                   | 0 | 24478 |
| Gelochelidon nilotica | Gull-billed tern   | BIRD   | IA | 05/10/2017 | BIRDATA     |                    |                        |                   | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern   | BIRD   | IA | 05/09/1978 | BIRDATLAS1  |                    |                        |                   | 0 | 47954 |



DBCA Threatened and Priority Fauna Database Search Results

|                       |                     |      |    |            |            |                    |               |          |  |   |       |
|-----------------------|---------------------|------|----|------------|------------|--------------------|---------------|----------|--|---|-------|
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 23/09/1998 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 20/07/1999 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 11/07/2000 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 12/09/2001 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 14/10/2001 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 19/10/2001 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 16/02/2002 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 19/01/2004 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 06/06/2004 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 08/11/2005 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 05/12/2005 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 29/04/2008 | BIRDATLAS2 |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 17/11/1981 | WAM_BIRDS  |                    |               |          |  | 0 | 47954 |
| Gelochelidon nilotica | Gull-billed tern    | BIRD | IA | 17/11/1981 | WAM_BIRDS  |                    |               |          |  | 0 | 47954 |
| Glareola maldivarum   | Oriental pratincole | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          |  | 0 | 24481 |
| Glareola maldivarum   | Oriental pratincole | BIRD | IA | 30/01/2013 | BIRDATA    |                    |               |          |  | 0 | 24481 |
| Glareola maldivarum   | Oriental pratincole | BIRD | IA | 02/02/2015 | BIRDATA    |                    |               |          |  | 0 | 24481 |
| Glareola maldivarum   | Oriental pratincole | BIRD | IA | 05/02/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24481 |
| Glareola maldivarum   | Oriental pratincole | BIRD | IA | 19/02/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24481 |
| Glareola maldivarum   | Oriental pratincole | BIRD | IA | 16/02/2002 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24481 |
| Glareola maldivarum   | Oriental pratincole | BIRD | IA | 15/02/2004 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24481 |
| Glareola maldivarum   | Oriental pratincole | BIRD | IA | 15/02/2004 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24481 |
| Glareola maldivarum   | Oriental pratincole | BIRD | IA | 16/02/2004 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24481 |
| Glareola maldivarum   | Oriental pratincole | BIRD | IA | 11/03/2007 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24481 |
| Hirundo rustica       | Barn swallow        | BIRD | IA | 30/01/2013 | BIRDATA    |                    |               |          |  | 0 | 25630 |
| Hirundo rustica       | Barn swallow        | BIRD | IA | 01/09/2014 | BIRDATA    |                    |               |          |  | 0 | 25630 |
| Hirundo rustica       | Barn swallow        | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 25630 |
| Hirundo rustica       | Barn swallow        | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 25630 |
| Hirundo rustica       | Barn swallow        | BIRD | IA | 25/10/2010 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 25630 |
| Hirundo rustica       | Barn swallow        | BIRD | IA | 30/01/2013 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 25630 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 30/01/2013 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 29/05/2013 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 14/10/2013 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 17/10/2013 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 28/10/2013 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 02/12/2014 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 10/06/2015 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 22/10/2015 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 20/10/2016 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 05/10/2017 | BIRDATA    |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 05/09/1978 | BIRDATLAS1 |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 05/07/1981 | BIRDATLAS1 |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 23/09/1998 | BIRDATLAS2 |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 20/07/1999 | BIRDATLAS2 |                    |               |          |  | 0 | 48587 |
| Hydroprogne caspia    | Caspian Tern        | BIRD | IA | 20/07/1999 | BIRDATLAS2 |                    |               |          |  | 0 | 48587 |

DBCA Threatened and Priority Fauna Database Search Results

|                                  |                              |         |    |            |             |                    |                        |              |      |       |
|----------------------------------|------------------------------|---------|----|------------|-------------|--------------------|------------------------|--------------|------|-------|
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 21/07/1999 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 11/07/2000 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 11/07/2000 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 19/09/2000 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 19/02/2001 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 14/10/2001 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 19/10/2001 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 19/10/2001 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 16/02/2002 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 29/04/2008 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 30/07/2008 | BIRDATLAS2  |                    |                        |              | 0    | 48587 |
| Hydroprogne caspia               | Caspian Tern                 | BIRD    | IA | 15/03/2013 | FAUNASURVEY | Certain            | Survey                 | Unknown      | 1    | 48587 |
| Lagostrophus fasciatus fasciatus | Banded hare-wallaby, mernine | MAMMAL  | VU |            | TFAUNA      | Moderately certain | Historical (written)   | Day sighting | 0    | 24128 |
| Liasis olivaceus barroni         | Pilbara olive python         | REPTILE | VU | 01/01/2007 | TFAUNA      | Certain            | Survey                 | Day sighting | 1    | 25238 |
| Liasis olivaceus barroni         | Pilbara olive python         | REPTILE | VU | 01/01/2007 | TFAUNA      | Certain            | Translocation          | Released     | 1    | 25238 |
| Liasis olivaceus barroni         | Pilbara olive python         | REPTILE | VU | 25/01/2013 | TFAUNA      | Certain            | Opportunistic sighting | Dead         | 1    | 25238 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 15/10/2012 | BIRDATA     |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 15/10/2012 | BIRDATA     |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 27/09/2013 | BIRDATA     |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 28/10/2013 | BIRDATA     |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 20/10/2014 | BIRDATA     |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 27/11/2014 | BIRDATA     |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 02/12/2014 | BIRDATA     |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 22/10/2015 | BIRDATA     |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 20/10/2016 | BIRDATA     |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 05/10/2017 | BIRDATA     |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 05/09/1978 | BIRDATLAS1  | Moderately certain | Observational          | Sighting     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 23/09/1998 | BIRDATLAS2  | Moderately certain | Observational          | Sighting     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 05/02/2001 | BIRDATLAS2  | Moderately certain | Observational          | Sighting     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 14/10/2001 | BIRDATLAS2  | Moderately certain | Observational          | Sighting     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational          | Sighting     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational          | Sighting     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational          | Sighting     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 05/12/2005 | BIRDATLAS2  | Moderately certain | Observational          | Sighting     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 26/03/1982 | WAM_BIRDS   | WAM Vouchered      | Collection             | Specimen     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 26/03/1982 | WAM_BIRDS   | WAM Vouchered      | Collection             | Specimen     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 03/04/1982 | WAM_BIRDS   | WAM Vouchered      | Collection             | Specimen     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 04/04/1982 | WAM_BIRDS   | WAM Vouchered      | Collection             | Specimen     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 04/04/1982 | WAM_BIRDS   | WAM Vouchered      | Collection             | Specimen     | 1    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 26/03/1982 | WAM_BIRDS   |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 26/03/1982 | WAM_BIRDS   |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 03/04/1982 | WAM_BIRDS   |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 04/04/1982 | WAM_BIRDS   |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 04/04/1982 | WAM_BIRDS   |                    |                        |              | 0    | 25739 |
| Limicola falcinellus             | Broad-billed sandpiper       | BIRD    | IA | 01/01/2008 | TFAUNA      | Certain            | Targeted survey        | Day sighting | 6000 | 25739 |
| Limnodromus semipalmatus         | Asian dowitcher              | BIRD    | IA | 15/10/2012 | BIRDATA     |                    |                        |              | 0    | 24795 |
| Limnodromus semipalmatus         | Asian dowitcher              | BIRD    | IA | 15/10/2012 | BIRDATA     |                    |                        |              | 0    | 24795 |
| Limnodromus semipalmatus         | Asian dowitcher              | BIRD    | IA | 28/10/2013 | BIRDATA     |                    |                        |              | 0    | 24795 |
| Limnodromus semipalmatus         | Asian dowitcher              | BIRD    | IA | 20/10/2014 | BIRDATA     |                    |                        |              | 0    | 24795 |
| Limnodromus semipalmatus         | Asian dowitcher              | BIRD    | IA | 22/10/2015 | BIRDATA     |                    |                        |              | 0    | 24795 |



DBCA Threatened and Priority Fauna Database Search Results

|                            |                                       |      |    |            |            |                    |               |              |   |       |
|----------------------------|---------------------------------------|------|----|------------|------------|--------------------|---------------|--------------|---|-------|
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 20/10/2016 | BIRDATA    |                    |               |              | 0 | 24795 |
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 05/10/2017 | BIRDATA    |                    |               |              | 0 | 24795 |
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 24795 |
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 14/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 24795 |
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 24795 |
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 24795 |
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 24795 |
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 03/04/1982 | WAM_BIRDS  | WAM Vouchered      | Collection    | Specimen     | 1 | 24795 |
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 03/04/1982 | WAM_BIRDS  |                    |               |              | 0 | 24795 |
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 04/04/1982 | WAM_BIRDS  | WAM Vouchered      | Collection    | Specimen     | 1 | 24795 |
| Limnodromus semipalmatus   | Asian dowitcher                       | BIRD | IA | 04/04/1982 | WAM_BIRDS  |                    |               |              | 0 | 24795 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 30/01/2013 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 27/09/2013 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 14/10/2013 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 17/10/2013 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 28/10/2013 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 04/03/2014 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 25/09/2014 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 27/11/2014 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 02/12/2014 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 10/06/2015 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 22/10/2015 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 20/10/2016 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 05/10/2017 | BIRDATA    |                    |               |              | 0 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 20/07/1999 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 20/07/1999 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 21/07/1999 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 22/10/1999 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 11/07/2000 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 19/09/2000 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 05/02/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 12/09/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 16/02/2002 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 19/01/2004 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 05/12/2005 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 22/10/2007 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 29/04/2008 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica           | Bar-tailed godwit                     | BIRD | IA | 30/01/2013 | BIRDATLAS2 | Moderately certain | Observational | Sighting     | 1 | 30932 |
| Limosa lapponica menzbieri | Bar-tailed godwit (northern Siberian) | BIRD | CR | 17/07/2011 | TFAUNA     | Certain            | Survey        | Day sighting | 1 | 24796 |
| Limosa limosa              | Black-tailed godwit                   | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |              | 0 | 25741 |





DBCAs Threatened and Priority Fauna Database Search Results

|                          |                               |         |    |            |             |               |                        |                |   |       |
|--------------------------|-------------------------------|---------|----|------------|-------------|---------------|------------------------|----------------|---|-------|
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 28/07/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 13/05/2013 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 1 | 24180 |
| Macroderma gigas         | Ghost bat                     | MAMMAL  | VU | 02/05/2017 | WL_REG17    |               | Survey                 |                | 0 | 24180 |
| Macrotis lagotis         | Bilby, dalgyte, ninu          | MAMMAL  | VU | 06/08/2013 | PILBTFUNA   | Not Sure      | Opportunistic sighting | Sighting       | 1 | 24168 |
| Mormopterus cobourgianus | North-western free-tailed bat | MAMMAL  | P1 | 17/09/2005 | TFAUNA      | Certain       | Survey                 | Secondary sign | 0 | 48003 |
| Mormopterus cobourgianus | North-western free-tailed bat | MAMMAL  | P1 | 17/09/2005 | TFAUNA      | Certain       | Survey                 | Secondary sign | 0 | 48003 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 27/01/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 3 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 28/01/2009 | FAUNASURVEY | Certain       | Survey                 | Unknown        | 3 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 11/11/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 11/11/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 02/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 03/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 03/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 06/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 08/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 08/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 09/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 09/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 10/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 10/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 12/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 21/12/2011 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 02/01/2012 | FAUNASURVEY | WAM Vouchered | Survey                 | Specimen       | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 17/10/2012 | FAUNASURVEY | Certain       | Survey                 | Secondary sign | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 14/11/2012 | FAUNASURVEY | Certain       | Survey                 | Secondary sign | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 16/11/2012 | FAUNASURVEY | Certain       | Survey                 | Secondary sign | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 16/11/2012 | FAUNASURVEY | Certain       | Survey                 | Secondary sign | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 21/11/2012 | FAUNASURVEY | Certain       | Survey                 | Secondary sign | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 21/11/2012 | FAUNASURVEY | Certain       | Survey                 | Secondary sign | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 23/11/2012 | FAUNASURVEY | Certain       | Survey                 | Secondary sign | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 23/11/2012 | FAUNASURVEY | Certain       | Survey                 | Secondary sign | 1 | 25344 |
| Natator depressus        | Flatback turtle               | REPTILE | VU | 23/11/2012 | FAUNASURVEY | Certain       | Survey                 | Secondary sign | 1 | 25344 |





DBCA Threatened and Priority Fauna Database Search Results

|                           |                                |      |    |            |            |                    |               |          |  |   |       |
|---------------------------|--------------------------------|------|----|------------|------------|--------------------|---------------|----------|--|---|-------|
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 02/12/2014 | BIRDATA    |                    |               |          |  | 0 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 10/06/2015 | BIRDATA    |                    |               |          |  | 0 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 22/10/2015 | BIRDATA    |                    |               |          |  | 0 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 20/10/2016 | BIRDATA    |                    |               |          |  | 0 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 08/08/2017 | BIRDATA    |                    |               |          |  | 0 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 05/10/2017 | BIRDATA    |                    |               |          |  | 0 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 20/07/1999 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 05/02/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 14/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 08/06/2002 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 19/01/2004 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius madagascariensis | Eastern curlew                 | BIRD | CR | 08/11/2005 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24798 |
| Numenius minutus          | Little curlew, little whimbrel | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          |  | 0 | 24799 |
| Numenius minutus          | Little curlew, little whimbrel | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          |  | 0 | 24799 |
| Numenius minutus          | Little curlew, little whimbrel | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24799 |
| Numenius minutus          | Little curlew, little whimbrel | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24799 |
| Numenius minutus          | Little curlew, little whimbrel | BIRD | IA | 25/11/2014 | BIRDATA    |                    |               |          |  | 0 | 24799 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 29/05/2013 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 26/07/2013 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 27/09/2013 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 27/09/2013 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 14/10/2013 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 17/10/2013 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 18/10/2013 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 28/10/2013 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 04/03/2014 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 25/09/2014 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 27/11/2014 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 02/12/2014 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 10/06/2015 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 22/10/2015 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 20/10/2016 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 08/08/2017 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 05/10/2017 | BIRDATA    |                    |               |          |  | 0 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 05/09/1978 | BIRDATLAS1 | Moderately certain | Observational | Sighting |  | 1 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 21/07/1999 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 25742 |
| Numenius phaeopus         | Whimbrel                       | BIRD | IA | 12/09/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 25742 |

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|                    |                        |      |    |            |             |                    |               |              |   |       |
|--------------------|------------------------|------|----|------------|-------------|--------------------|---------------|--------------|---|-------|
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 14/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 25742 |
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 25742 |
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 25742 |
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 25742 |
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 16/02/2002 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 25742 |
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 08/06/2002 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 25742 |
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 19/01/2004 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 25742 |
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 05/12/2005 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 25742 |
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 22/10/2007 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 25742 |
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 29/04/2008 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 25742 |
| Numenius phaeopus  | Whimbrel               | BIRD | IA | 17/07/2011 | TFAUNA      | Certain            | Survey        | Day sighting | 1 | 25742 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 23/08/2012 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 15/10/2012 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 30/01/2013 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 23/06/2013 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 26/07/2013 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 14/10/2013 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 28/10/2013 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 04/03/2014 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 25/09/2014 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 20/10/2014 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 20/10/2014 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 27/11/2014 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 20/05/2015 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 19/10/2016 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 20/10/2016 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 05/10/2017 | BIRDATA     |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 23/09/1998 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 22/10/1999 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 11/07/2000 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 19/02/2001 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 14/10/2001 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 19/10/2001 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 19/10/2001 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 19/10/2001 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 16/02/2002 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 08/06/2002 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 29/04/2008 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 30/07/2008 | BIRDATLAS2  |                    |               |              | 0 | 48591 |
| Pandion cristatus  | Osprey, eastern osprey | BIRD | IA | 15/03/2013 | FAUNASURVEY | Certain            | Survey        | Unknown      | 1 | 48591 |
| Phalaropus lobatus | Red-necked phalarope   | BIRD | IA | 28/10/2013 | BIRDATA     |                    |               |              | 0 | 24801 |
| Phalaropus lobatus | Red-necked phalarope   | BIRD | IA | 20/10/2014 | BIRDATA     |                    |               |              | 0 | 24801 |
| Phalaropus lobatus | Red-necked phalarope   | BIRD | IA | 05/10/2017 | BIRDATA     |                    |               |              | 0 | 24801 |
| Phalaropus lobatus | Red-necked phalarope   | BIRD | IA | 14/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24801 |
| Phalaropus lobatus | Red-necked phalarope   | BIRD | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24801 |
| Phalaropus lobatus | Red-necked phalarope   | BIRD | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24801 |
| Phalaropus lobatus | Red-necked phalarope   | BIRD | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24801 |
| Phalaropus lobatus | Red-necked phalarope   | BIRD | IA | 16/11/1981 | WAM_BIRDS   | WAM Vouchered      | Collection    | Specimen     | 1 | 24801 |
| Phalaropus lobatus | Red-necked phalarope   | BIRD | IA | 16/11/1981 | WAM_BIRDS   | WAM Vouchered      | Collection    | Specimen     | 1 | 24801 |
| Phalaropus lobatus | Red-necked phalarope   | BIRD | IA | 16/11/1981 | WAM_BIRDS   | WAM Vouchered      | Collection    | Specimen     | 1 | 24801 |



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|                                |                                    |        |    |            |             |                    |               |              |   |       |
|--------------------------------|------------------------------------|--------|----|------------|-------------|--------------------|---------------|--------------|---|-------|
| Phalaropus lobatus             | Red-necked phalarope               | BIRD   | IA | 16/11/1981 | WAM_BIRDS   | WAM Vouchered      | Collection    | Specimen     | 1 | 24801 |
| Phalaropus lobatus             | Red-necked phalarope               | BIRD   | IA | 16/11/1981 | WAM_BIRDS   |                    |               |              | 0 | 24801 |
| Phalaropus lobatus             | Red-necked phalarope               | BIRD   | IA | 16/11/1981 | WAM_BIRDS   |                    |               |              | 0 | 24801 |
| Phalaropus lobatus             | Red-necked phalarope               | BIRD   | IA | 16/11/1981 | WAM_BIRDS   |                    |               |              | 0 | 24801 |
| Phalaropus lobatus             | Red-necked phalarope               | BIRD   | IA | 16/11/1981 | WAM_BIRDS   |                    |               |              | 0 | 24801 |
| Philomachus pugnax             | Ruff (reeve)                       | BIRD   | IA | 05/10/2017 | BIRDATA     |                    |               |              | 0 | 24802 |
| Plegadis falcinellus           | Glossy ibis                        | BIRD   | IA | 23/09/1998 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24843 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 15/10/2012 | BIRDATA     |                    |               |              | 0 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 15/10/2012 | BIRDATA     |                    |               |              | 0 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 28/10/2013 | BIRDATA     |                    |               |              | 0 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 20/10/2014 | BIRDATA     |                    |               |              | 0 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 27/11/2014 | BIRDATA     |                    |               |              | 0 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 22/10/2015 | BIRDATA     |                    |               |              | 0 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 20/10/2016 | BIRDATA     |                    |               |              | 0 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 05/10/2017 | BIRDATA     |                    |               |              | 0 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 05/09/1978 | BIRDATLAS1  | Moderately certain | Observational | Sighting     | 1 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 14/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24382 |
| Pluvialis fulva                | Pacific golden plover              | BIRD   | IA | 16/02/2002 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24382 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 15/10/2012 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 15/10/2012 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 14/10/2013 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 17/10/2013 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 28/10/2013 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 04/03/2014 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 20/10/2014 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 27/11/2014 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 02/12/2014 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 22/10/2015 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 20/10/2016 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 05/10/2017 | BIRDATA     |                    |               |              | 0 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 05/09/1978 | BIRDATLAS1  | Moderately certain | Observational | Sighting     | 1 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 23/09/1998 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 21/07/1999 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 12/09/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 14/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 05/12/2005 | BIRDATLAS2  | Moderately certain | Observational | Sighting     | 1 | 24383 |
| Pluvialis squatarola           | Grey plover                        | BIRD   | IA | 17/07/2011 | TFAUNA      | Certain            | Survey        | Day sighting | 1 | 24383 |
| Pseudomys chapmani             | Western pebble-mound mouse, ngadji | MAMMAL | P4 | 28/07/2009 | FAUNASURVEY | Certain            | Survey        | Unknown      | 1 | 24233 |
| Pseudomys chapmani             | Western pebble-mound mouse, ngadji | MAMMAL | P4 | 28/07/2009 | FAUNASURVEY | Certain            | Survey        | Unknown      | 1 | 24233 |
| Pseudomys chapmani             | Western pebble-mound mouse, ngadji | MAMMAL | P4 | 28/07/2009 | FAUNASURVEY | Certain            | Survey        | Unknown      | 1 | 24233 |
| Pseudomys chapmani             | Western pebble-mound mouse, ngadji | MAMMAL | P4 | 28/07/2009 | FAUNASURVEY | Certain            | Survey        | Unknown      | 1 | 24233 |
| Pseudomys chapmani             | Western pebble-mound mouse, ngadji | MAMMAL | P4 | 01/01/2007 | TFAUNA      | Certain            | Survey        | Day sighting | 1 | 24233 |
| Rhinonictis aurantia (Pilbara) | Pilbara leaf-nosed bat             | MAMMAL | VU | 28/07/2009 | FAUNASURVEY | Certain            | Survey        | Unknown      | 1 | 48095 |
| Rhinonictis aurantia (Pilbara) | Pilbara leaf-nosed bat             | MAMMAL | VU | 28/07/2009 | FAUNASURVEY | Certain            | Survey        | Unknown      | 1 | 48095 |
| Rhinonictis aurantia (Pilbara) | Pilbara leaf-nosed bat             | MAMMAL | VU | 28/07/2009 | FAUNASURVEY | Certain            | Survey        | Unknown      | 1 | 48095 |

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|                                  |                        |        |    |            |             |                    |               |          |   |       |
|----------------------------------|------------------------|--------|----|------------|-------------|--------------------|---------------|----------|---|-------|
| Rhinonictoris aurantia (Pilbara) | Pilbara leaf-nosed bat | MAMMAL | VU | 28/07/2009 | FAUNASURVEY | Certain            | Survey        | Unknown  | 1 | 48095 |
| Rhinonictoris aurantia (Pilbara) | Pilbara leaf-nosed bat | MAMMAL | VU | 13/05/2013 | FAUNASURVEY | Certain            | Survey        | Unknown  | 1 | 48095 |
| Sterna hirundo                   | Common tern            | BIRD   | IA | 28/10/2013 | BIRDATA     |                    |               |          | 0 | 25642 |
| Sterna hirundo                   | Common tern            | BIRD   | IA | 22/10/2015 | BIRDATA     |                    |               |          | 0 | 25642 |
| Sterna hirundo                   | Common tern            | BIRD   | IA | 14/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 25642 |
| Sterna hirundo                   | Common tern            | BIRD   | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 25642 |
| Sterna hirundo                   | Common tern            | BIRD   | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 25642 |
| Sterna hirundo                   | Common tern            | BIRD   | IA | 22/10/2007 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 25642 |
| Sterna hirundo                   | Common tern            | BIRD   | IA | 25/10/2010 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 25642 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 15/10/2012 | BIRDATA     |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 15/10/2012 | BIRDATA     |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 28/10/2013 | BIRDATA     |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 20/10/2014 | BIRDATA     |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 20/10/2014 | BIRDATA     |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 20/10/2014 | BIRDATA     |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 22/10/2015 | BIRDATA     |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 20/10/2016 | BIRDATA     |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 05/10/2017 | BIRDATA     |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 23/09/1998 | BIRDATLAS2  |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 05/02/2001 | BIRDATLAS2  |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 14/10/2001 | BIRDATLAS2  |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 19/10/2001 | BIRDATLAS2  |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 19/10/2001 | BIRDATLAS2  |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 19/10/2001 | BIRDATLAS2  |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 19/10/2001 | BIRDATLAS2  |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 22/10/2007 | BIRDATLAS2  |                    |               |          | 0 | 48593 |
| Sternula albifrons               | Little tern            | BIRD   | IA | 16/11/1981 | WAM_BIRDS   |                    |               |          | 0 | 48593 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 16/10/2007 | BIRDATA     |                    |               |          | 0 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 15/10/2012 | BIRDATA     |                    |               |          | 0 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 18/10/2013 | BIRDATA     |                    |               |          | 0 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 20/10/2014 | BIRDATA     |                    |               |          | 0 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 20/10/2016 | BIRDATA     |                    |               |          | 0 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 05/10/2017 | BIRDATA     |                    |               |          | 0 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 20/07/1999 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 21/07/1999 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 19/10/2001 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 16/02/2002 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 08/06/2002 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 48597 |
| Thalasseus bergii                | Crested tern           | BIRD   | IA | 11/03/2007 | BIRDATLAS2  | Moderately certain | Observational | Sighting | 1 | 48597 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 16/10/2007 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 15/10/2012 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 15/10/2012 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 30/01/2013 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 29/05/2013 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 26/07/2013 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 27/09/2013 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 14/10/2013 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 17/10/2013 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 18/10/2013 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 28/10/2013 | BIRDATA     |                    |               |          | 0 | 24803 |
| Tringa brevipes                  | Grey-tailed tattler    | BIRD   | IA | 04/03/2014 | BIRDATA     |                    |               |          | 0 | 24803 |



DBCA Threatened and Priority Fauna Database Search Results

|                  |                               |      |    |            |            |                    |               |          |  |   |       |
|------------------|-------------------------------|------|----|------------|------------|--------------------|---------------|----------|--|---|-------|
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 25/09/2014 | BIRDATA    |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 27/11/2014 | BIRDATA    |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 02/12/2014 | BIRDATA    |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 10/06/2015 | BIRDATA    |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 22/10/2015 | BIRDATA    |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 20/10/2016 | BIRDATA    |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 05/10/2017 | BIRDATA    |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 23/09/1998 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 20/07/1999 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 21/07/1999 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 02/08/2000 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 19/09/2000 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 14/10/2001 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 19/10/2001 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 19/10/2001 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 19/10/2001 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 08/11/2005 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 05/12/2005 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 22/10/2007 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 29/04/2008 | BIRDATLAS2 |                    |               |          |  | 0 | 24803 |
| Tringa brevipes  | Grey-tailed tattler           | BIRD | IA | 01/08/1981 | WAM_BIRDS  |                    |               |          |  | 0 | 24803 |
| Tringa glareola  | Wood sandpiper                | BIRD | IA | 04/03/2014 | BIRDATA    |                    |               |          |  | 0 | 24806 |
| Tringa glareola  | Wood sandpiper                | BIRD | IA | 01/09/2014 | BIRDATA    |                    |               |          |  | 0 | 24806 |
| Tringa glareola  | Wood sandpiper                | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24806 |
| Tringa glareola  | Wood sandpiper                | BIRD | IA | 25/11/2014 | BIRDATA    |                    |               |          |  | 0 | 24806 |
| Tringa glareola  | Wood sandpiper                | BIRD | IA | 02/12/2014 | BIRDATA    |                    |               |          |  | 0 | 24806 |
| Tringa glareola  | Wood sandpiper                | BIRD | IA | 25/08/1981 | BIRDATLAS1 | Moderately certain | Observational | Sighting |  | 1 | 24806 |
| Tringa glareola  | Wood sandpiper                | BIRD | IA | 23/09/1998 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24806 |
| Tringa glareola  | Wood sandpiper                | BIRD | IA | 19/10/2001 | BIRDATLAS2 | Moderately certain | Observational | Sighting |  | 1 | 24806 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 16/10/2007 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 15/10/2012 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 30/01/2013 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 30/01/2013 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 27/09/2013 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 14/10/2013 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 17/10/2013 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 28/10/2013 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 04/03/2014 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 01/09/2014 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 20/10/2014 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 27/11/2014 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 02/12/2014 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 10/06/2015 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 22/10/2015 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 20/10/2016 | BIRDATA    |                    |               |          |  | 0 | 24808 |
| Tringa nebularia | Common greenshank, greenshank | BIRD | IA | 05/10/2017 | BIRDATA    |                    |               |          |  | 0 | 24808 |





DBCA Threatened and Priority Fauna Database Search Results

|                |                 |      |    |            |            |  |  |  |   |       |
|----------------|-----------------|------|----|------------|------------|--|--|--|---|-------|
| Xenus cinereus | Terek sandpiper | BIRD | IA | 05/09/1978 | BIRDATLAS1 |  |  |  | 0 | 41351 |
| Xenus cinereus | Terek sandpiper | BIRD | IA | 08/04/1999 | BIRDATLAS2 |  |  |  | 0 | 41351 |
| Xenus cinereus | Terek sandpiper | BIRD | IA | 05/02/2001 | BIRDATLAS2 |  |  |  | 0 | 41351 |
| Xenus cinereus | Terek sandpiper | BIRD | IA | 12/09/2001 | BIRDATLAS2 |  |  |  | 0 | 41351 |
| Xenus cinereus | Terek sandpiper | BIRD | IA | 14/10/2001 | BIRDATLAS2 |  |  |  | 0 | 41351 |
| Xenus cinereus | Terek sandpiper | BIRD | IA | 19/10/2001 | BIRDATLAS2 |  |  |  | 0 | 41351 |
| Xenus cinereus | Terek sandpiper | BIRD | IA | 19/10/2001 | BIRDATLAS2 |  |  |  | 0 | 41351 |
| Xenus cinereus | Terek sandpiper | BIRD | IA | 19/01/2004 | BIRDATLAS2 |  |  |  | 0 | 41351 |
| Xenus cinereus | Terek sandpiper | BIRD | IA | 05/12/2005 | BIRDATLAS2 |  |  |  | 0 | 41351 |



# 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 [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 03/06/20 21:45:15

[Summary](#)

[Details](#)

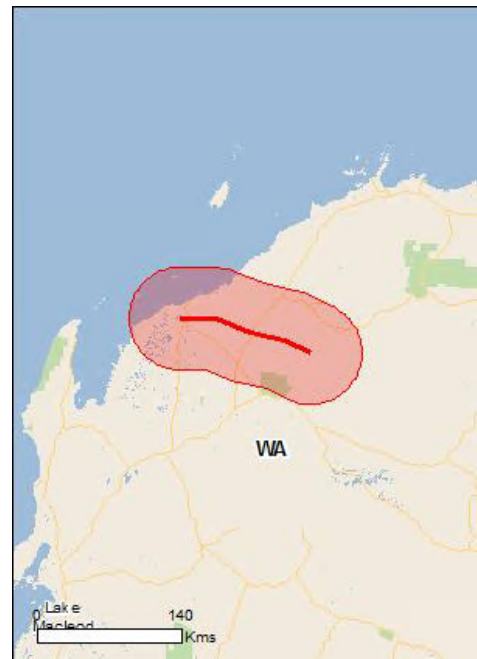
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

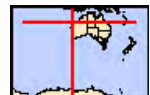
[Acknowledgements](#)



This map may contain data which are  
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[Coordinates](#)

Buffer: 50.0Km





# 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 [Administrative Guidelines on Significance](#).

|   |      |
|---|------|
| <a href="#">World Heritage Properties:</a>                | None |
| <a href="#">National Heritage Places:</a>                 | None |
| <a href="#">Wetlands of International Importance:</a>     | None |
| <a href="#">Great Barrier Reef Marine Park:</a>           | None |
| <a href="#">Commonwealth Marine Area:</a>                 | 1    |
| <a href="#">Listed Threatened Ecological Communities:</a> | None |
| <a href="#">Listed Threatened Species:</a>                | 29   |
| <a href="#">Listed Migratory Species:</a>                 | 47   |

## 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.

|  |      |
|--|------|
| <a href="#">Commonwealth Land:</a>                 | 1    |
| <a href="#">Commonwealth Heritage Places:</a>      | None |
| <a href="#">Listed Marine Species:</a>             | 86   |
| <a href="#">Whales and Other Cetaceans:</a>        | 15   |
| <a href="#">Critical Habitats:</a>                 | None |
| <a href="#">Commonwealth Reserves Terrestrial:</a> | None |
| <a href="#">Australian Marine Parks:</a>           | None |

## Extra Information

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

|  |      |
|--|------|
| <a href="#">State and Territory Reserves:</a>    | 9    |
| <a href="#">Regional Forest Agreements:</a>      | None |
| <a href="#">Invasive Species:</a>                | 12   |
| <a href="#">Nationally Important Wetlands:</a>   | 1    |
| <a href="#">Key Ecological Features (Marine)</a> | None |

# Details

## Matters of National Environmental Significance

### Commonwealth Marine Area

[\[ Resource Information \]](#)

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside the Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area. Generally the Commonwealth Marine Area stretches from three nautical miles to two hundred nautical miles from the coast.

#### Name

EEZ and Territorial Sea

### Marine Regions

[\[ Resource Information \]](#)

If you are planning to undertake action in an area in or close to the Commonwealth Marine Area, and a marine bioregional plan has been prepared for the Commonwealth Marine Area in that area, the marine bioregional plan may inform your decision as to whether to refer your proposed action under the EPBC Act.

#### Name

[North-west](#)

### Listed Threatened Species

[\[ Resource Information \]](#)

| Name   | Status                | Type of Presence                                      |
|--|-----------------------|---|
| <b>Birds</b>   |                       |   |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]   | Endangered            | Species or species habitat may occur within area      |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]  | Critically Endangered | Species or species habitat known to occur within area |
| <a href="#">Limosa lapponica baueri</a><br>Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]         | Vulnerable            | Species or species habitat may occur within area      |
| <a href="#">Limosa lapponica menzbieri</a><br>Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432] | Critically Endangered | Species or species habitat may occur within area      |
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060]                             | Endangered            | Species or species habitat may occur within area      |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]                                    | Critically Endangered | Species or species habitat known to occur within area |
| <a href="#">Pezoporus occidentalis</a><br>Night Parrot [59350]   | Endangered            | Species or species habitat may occur within area      |
| <a href="#">Rostratula australis</a><br>Australian Painted Snipe [77037]   | Endangered            | Species or species habitat may occur within area      |
| <a href="#">Sternula nereis nereis</a><br>Australian Fairy Tern [82950]  | Vulnerable            | Breeding known to occur within area                   |



| Name  | Status                | Type of Presence  |
|---|-----------------------|---|
| <b>Mammals</b>  |                       |   |
| <a href="#">Balaenoptera borealis</a><br>Sei Whale [34]   | Vulnerable            | Species or species habitat likely to occur within area            |
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]  | Endangered            | Species or species habitat likely to occur within area            |
| <a href="#">Balaenoptera physalus</a><br>Fin Whale [37]   | Vulnerable            | Species or species habitat likely to occur within area            |
| <a href="#">Dasyurus hallucatus</a><br>Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331] | Endangered            | Species or species habitat known to occur within area             |
| <a href="#">Eubalaena australis</a><br>Southern Right Whale [40]  | Endangered            | Species or species habitat may occur within area                  |
| <a href="#">Macroderma gigas</a><br>Ghost Bat [174]   | Vulnerable            | Species or species habitat likely to occur within area            |
| <a href="#">Megaptera novaeangliae</a><br>Humpback Whale [38]   | Vulnerable            | Breeding known to occur within area                               |
| <a href="#">Rhinonictis aurantia (Pilbara form)</a><br>Pilbara Leaf-nosed Bat [82790]   | Vulnerable            | Roosting known to occur within area                               |
| <b>Reptiles</b>   |                       |   |
| <a href="#">Aipysurus apraefrontalis</a><br>Short-nosed Seasnake [1115]   | Critically Endangered | Species or species habitat likely to occur within area            |
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]   | Endangered            | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]   | Vulnerable            | Breeding known to occur within area                               |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]                                      | Endangered            | Species or species habitat known to occur within area             |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]   | Vulnerable            | Breeding known to occur within area                               |
| <a href="#">Liasis olivaceus barroni</a><br>Olive Python (Pilbara subspecies) [66699]   | Vulnerable            | Species or species habitat known to occur within area             |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]  | Vulnerable            | Breeding known to occur within area                               |
| <b>Sharks</b>   |                       |   |
| <a href="#">Carcharias taurus (west coast population)</a><br>Grey Nurse Shark (west coast population) [68752]                 | Vulnerable            | Species or species habitat known to occur within area             |
| <a href="#">Carcharodon carcharias</a><br>White Shark, Great White Shark [64470]  | Vulnerable            | Species or species habitat likely to occur within area            |
| <a href="#">Pristis clavata</a><br>Dwarf Sawfish, Queensland Sawfish [68447]  | Vulnerable            | Species or species habitat known to occur within area             |
| <a href="#">Pristis zijsron</a><br>Green Sawfish, Dindagubba, Narrowsnout Sawfish   | Vulnerable            | Species or species  |

| Name                            | Status     | Type of Presence  |
|---------------------------------|------------|---|
| [68442]                         |            | habitat known to occur within area                                |
| <a href="#">Rhincodon typus</a> |            |   |
| Whale Shark [66680]             | Vulnerable | Foraging, feeding or related behaviour known to occur within area |

Listed Migratory Species [ [Resource Information](#) ]

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

| Name | Threatened | Type of Presence |
|------|------------|------------------|
|------|------------|------------------|

Migratory Marine Birds

|                                |  |  |
|--------------------------------|--|--|
| <a href="#">Anous stolidus</a> |  |  |
| Common Noddy [825]             |  | Species or species habitat may occur within area |

|                                |  |  |
|--------------------------------|--|--|
| <a href="#">Apus pacificus</a> |  |  |
| Fork-tailed Swift [678]        |  | Species or species habitat likely to occur within area |

|  |  |  |
|--|--|--|
| <a href="#">Ardenna carneipes</a>                          |  |  |
| Flesh-footed Shearwater, Fleishy-footed Shearwater [82404] |  | Species or species habitat may occur within area |

|                                  |  |                                     |
|----------------------------------|--|-------------------------------------|
| <a href="#">Ardenna pacifica</a> |  |                                     |
| Wedge-tailed Shearwater [84292]  |  | Breeding known to occur within area |

|  |  |  |
|--|--|--|
| <a href="#">Calonectris leucomelas</a> |  |  |
| Streaked Shearwater [1077]             |  | Species or species habitat likely to occur within area |

|  |  |  |
|--|--|--|
| <a href="#">Fregata ariel</a>                |  |  |
| Lesser Frigatebird, Least Frigatebird [1012] |  | Species or species habitat likely to occur within area |

|                                    |  |                                     |
|------------------------------------|--|-------------------------------------|
| <a href="#">Hydroprogne caspia</a> |  |                                     |
| Caspian Tern [808]                 |  | Breeding known to occur within area |

|   |            |  |
|---|------------|--|
| <a href="#">Macronectes giganteus</a>               |            |  |
| Southern Giant-Petrel, Southern Giant Petrel [1060] | Endangered | Species or species habitat may occur within area |

|  |  |                                     |
|--|--|-------------------------------------|
| <a href="#">Onychoprion anaethetus</a> |  |                                     |
| Bridled Tern [82845]                   |  | Breeding known to occur within area |

|                                  |  |  |
|----------------------------------|--|--|
| <a href="#">Sterna dougallii</a> |  |  |
| Roseate Tern [817]               |  | Foraging, feeding or related behaviour likely to occur within area |

Migratory Marine Species

|  |  |  |
|--|--|--|
| <a href="#">Anoxypristis cuspidata</a>     |  |  |
| Narrow Sawfish, Knifetooth Sawfish [68448] |  | Species or species habitat likely to occur within area |

|   |             |  |
|---|-------------|--|
| <a href="#">Balaena glacialis australis</a> |             |  |
| Southern Right Whale [75529]                | Endangered* | Species or species habitat may occur within area |

|                                       |            |  |
|---------------------------------------|------------|--|
| <a href="#">Balaenoptera borealis</a> |            |  |
| Sei Whale [34]                        | Vulnerable | Species or species habitat likely to occur within area |

|                                    |  |  |
|------------------------------------|--|--|
| <a href="#">Balaenoptera edeni</a> |  |  |
| Bryde's Whale [35]                 |  | Species or species habitat may occur within area |

|                                       |            |  |
|---------------------------------------|------------|--|
| <a href="#">Balaenoptera musculus</a> |            |  |
| Blue Whale [36]                       | Endangered | Species or species habitat likely to occur within area |

|                                       |            |  |
|---------------------------------------|------------|--|
| <a href="#">Balaenoptera physalus</a> |            |  |
| Fin Whale [37]                        | Vulnerable | Species or species habitat likely to occur |



| Name   | Threatened | Type of Presence  |
|--|------------|---|
| <a href="#">Carcharodon carcharias</a><br>White Shark, Great White Shark [64470]   | Vulnerable | Species or species habitat likely to occur within area            |
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]  | Endangered | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]  | Vulnerable | Breeding known to occur within area                               |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]   | Endangered | Species or species habitat known to occur within area             |
| <a href="#">Dugong dugon</a><br>Dugong [28]  |            | Breeding known to occur within area                               |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]  | Vulnerable | Breeding known to occur within area                               |
| <a href="#">Manta alfredi</a><br>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             |
| <a href="#">Manta birostris</a><br>Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995] |            | Species or species habitat known to occur within area             |
| <a href="#">Megaptera novaeangliae</a><br>Humpback Whale [38]  | Vulnerable | Breeding known to occur within area                               |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]   | Vulnerable | Breeding known to occur within area                               |
| <a href="#">Orcinus orca</a><br>Killer Whale, Orca [46]  |            | Species or species habitat may occur within area                  |
| <a href="#">Pristis clavata</a><br>Dwarf Sawfish, Queensland Sawfish [68447]   | Vulnerable | Species or species habitat known to occur within area             |
| <a href="#">Pristis zijsron</a><br>Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]  | Vulnerable | Species or species habitat known to occur within area             |
| <a href="#">Rhincodon typus</a><br>Whale Shark [66680]   | Vulnerable | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Sousa chinensis</a><br>Indo-Pacific Humpback Dolphin [50]  |            | Species or species habitat likely to occur within area            |
| <a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a><br>Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900] |            | Species or species habitat known to occur within area             |
| <b>Migratory Terrestrial Species</b>   |            |   |
| <a href="#">Hirundo rustica</a><br>Barn Swallow [662]  |            | Species or species habitat may occur within area                  |
| <a href="#">Motacilla cinerea</a><br>Grey Wagtail [642]  |            | Species or species habitat may occur within area                  |
| <a href="#">Motacilla flava</a><br>Yellow Wagtail [644]  |            | Species or species habitat may occur within area                  |

| Name  | Threatened            | Type of Presence                                       |
|---|-----------------------|--|
| <b>Migratory Wetlands Species</b>   |                       |  |
| <a href="#">Actitis hypoleucos</a><br>Common Sandpiper [59309]                        |                       | Species or species habitat known to occur within area  |
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]                    |                       | Species or species habitat known to occur within area  |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]                              | Endangered            | Species or species habitat may occur within area       |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]                         | Critically Endangered | Species or species habitat known to occur within area  |
| <a href="#">Calidris melanotos</a><br>Pectoral Sandpiper [858]                        |                       | Species or species habitat likely to occur within area |
| <a href="#">Charadrius veredus</a><br>Oriental Plover, Oriental Dotterel [882]        |                       | Species or species habitat may occur within area       |
| <a href="#">Glareola maldivarum</a><br>Oriental Pratincole [840]                      |                       | Species or species habitat may occur within area       |
| <a href="#">Limosa lapponica</a><br>Bar-tailed Godwit [844]                           |                       | Species or species habitat known to occur within area  |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat known to occur within area  |
| <a href="#">Pandion haliaetus</a><br>Osprey [952]                                     |                       | Breeding known to occur within area                    |
| <a href="#">Thalasseus bergii</a><br>Crested Tern [83000]                             |                       | Breeding known to occur within area                    |
| <a href="#">Tringa nebularia</a><br>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.

#### Name

Commonwealth Land -

### Listed Marine Species [\[ Resource Information \]](#)

\* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.

| Name | Threatened | Type of Presence |
|------|------------|------------------|
|------|------------|------------------|

#### Birds

|  |  |   |
|--|--|---|
| <a href="#">Actitis hypoleucos</a><br>Common Sandpiper [59309] |  | Species or species habitat known to occur within area |
|--|--|---|

|  |  |   |
|--|--|---|
| <a href="#">Anous stolidus</a><br>Common Noddy [825] |  | Species or species habitat may occur within |
|--|--|---|



| Name   | Threatened            | Type of Presence area                                  |
|--|-----------------------|--|
| <a href="#">Apus pacificus</a><br>Fork-tailed Swift [678]                                    |                       | Species or species habitat likely to occur within area |
| <a href="#">Ardea alba</a><br>Great Egret, White Egret [59541]                               |                       | Breeding known to occur within area                    |
| <a href="#">Ardea ibis</a><br>Cattle Egret [59542]   |                       | Species or species habitat may occur within area       |
| <a href="#">Calidris acuminata</a><br>Sharp-tailed Sandpiper [874]                           |                       | Species or species habitat known to occur within area  |
| <a href="#">Calidris canutus</a><br>Red Knot, Knot [855]                                     | Endangered            | Species or species habitat may occur within area       |
| <a href="#">Calidris ferruginea</a><br>Curlew Sandpiper [856]                                | Critically Endangered | Species or species habitat known to occur within area  |
| <a href="#">Calidris melanotos</a><br>Pectoral Sandpiper [858]                               |                       | Species or species habitat likely to occur within area |
| <a href="#">Calonectris leucomelas</a><br>Streaked Shearwater [1077]                         |                       | Species or species habitat likely to occur within area |
| <a href="#">Charadrius veredus</a><br>Oriental Plover, Oriental Dotterel [882]               |                       | Species or species habitat may occur within area       |
| <a href="#">Chrysococcyx osculans</a><br>Black-eared Cuckoo [705]                            |                       | Species or species habitat known to occur within area  |
| <a href="#">Fregata ariel</a><br>Lesser Frigatebird, Least Frigatebird [1012]                |                       | Species or species habitat likely to occur within area |
| <a href="#">Glareola maldivarum</a><br>Oriental Pratincole [840]                             |                       | Species or species habitat may occur within area       |
| <a href="#">Haliaeetus leucogaster</a><br>White-bellied Sea-Eagle [943]                      |                       | Species or species habitat known to occur within area  |
| <a href="#">Hirundo rustica</a><br>Barn Swallow [662]  |                       | Species or species habitat may occur within area       |
| <a href="#">Larus novaehollandiae</a><br>Silver Gull [810]                                   |                       | Breeding known to occur within area                    |
| <a href="#">Limosa lapponica</a><br>Bar-tailed Godwit [844]                                  |                       | Species or species habitat known to occur within area  |
| <a href="#">Macronectes giganteus</a><br>Southern Giant-Petrel, Southern Giant Petrel [1060] | Endangered            | Species or species habitat may occur within area       |
| <a href="#">Merops ornatus</a><br>Rainbow Bee-eater [670]                                    |                       | Species or species habitat may occur within area       |
| <a href="#">Motacilla cinerea</a><br>Grey Wagtail [642]                                      |                       | Species or species                                     |

| Name   | Threatened            | Type of Presence  |
|--|-----------------------|---|
| <a href="#">Motacilla flava</a><br>Yellow Wagtail [644]  |                       | habitat may occur within area<br><br>Species or species habitat may occur within area |
| <a href="#">Numenius madagascariensis</a><br>Eastern Curlew, Far Eastern Curlew [847]                    | Critically Endangered | Species or species habitat known to occur within area                                 |
| <a href="#">Pandion haliaetus</a><br>Osprey [952]  |                       | Breeding known to occur within area   |
| <a href="#">Puffinus carneipes</a><br>Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]           |                       | Species or species habitat may occur within area                                      |
| <a href="#">Puffinus pacificus</a><br>Wedge-tailed Shearwater [1027]                                     |                       | Breeding known to occur within area   |
| <a href="#">Rostratula benghalensis (sensu lato)</a><br>Painted Snipe [889]                              | Endangered*           | Species or species habitat may occur within area                                      |
| <a href="#">Sterna anaethetus</a><br>Bridled Tern [814]  |                       | Breeding known to occur within area   |
| <a href="#">Sterna bengalensis</a><br>Lesser Crested Tern [815]  |                       | Breeding known to occur within area   |
| <a href="#">Sterna bergii</a><br>Crested Tern [816]  |                       | Breeding known to occur within area   |
| <a href="#">Sterna caspia</a><br>Caspian Tern [59467]  |                       | Breeding known to occur within area   |
| <a href="#">Sterna dougallii</a><br>Roseate Tern [817]   |                       | Foraging, feeding or related behaviour likely to occur within area                    |
| <a href="#">Sterna fuscata</a><br>Sooty Tern [794]   |                       | Breeding known to occur within area   |
| <a href="#">Sterna nereis</a><br>Fairy Tern [796]  |                       | Breeding known to occur within area   |
| <a href="#">Tringa nebularia</a><br>Common Greenshank, Greenshank [832]                                  |                       | Species or species habitat likely to occur within area                                |
| <b>Fish</b>  |                       |   |
| <a href="#">Acentronura larsonae</a><br>Helen's Pygmy Pipehorse [66186]                                  |                       | Species or species habitat may occur within area                                      |
| <a href="#">Bulbonaricus brauni</a><br>Braun's Pughead Pipefish, Pug-headed Pipefish [66189]             |                       | Species or species habitat may occur within area                                      |
| <a href="#">Campichthys tricarinatus</a><br>Three-keel Pipefish [66192]                                  |                       | Species or species habitat may occur within area                                      |
| <a href="#">Choeroichthys brachysoma</a><br>Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194] |                       | Species or species habitat may occur within area                                      |
| <a href="#">Choeroichthys latispinosus</a><br>Muiron Island Pipefish [66196]                             |                       | Species or species habitat may occur within area                                      |



| Name   | Threatened | Type of Presence                                 |
|--|------------|--|
| <a href="#">Choeroichthys suillus</a><br>Pig-snouted Pipefish [66198]  |            | Species or species habitat may occur within area |
| <a href="#">Doryrhamphus dactyliophorus</a><br>Banded Pipefish, Ringed Pipefish [66210]                            |            | Species or species habitat may occur within area |
| <a href="#">Doryrhamphus janssi</a><br>Cleaner Pipefish, Janss' Pipefish [66212]                                   |            | Species or species habitat may occur within area |
| <a href="#">Doryrhamphus multiannulatus</a><br>Many-banded Pipefish [66717]  |            | Species or species habitat may occur within area |
| <a href="#">Doryrhamphus negrosensis</a><br>Flagtail Pipefish, Masthead Island Pipefish [66213]                    |            | Species or species habitat may occur within area |
| <a href="#">Festucalex scalaris</a><br>Ladder Pipefish [66216]   |            | Species or species habitat may occur within area |
| <a href="#">Filicampus tigris</a><br>Tiger Pipefish [66217]  |            | Species or species habitat may occur within area |
| <a href="#">Halicampus brocki</a><br>Brock's Pipefish [66219]  |            | Species or species habitat may occur within area |
| <a href="#">Halicampus grayi</a><br>Mud Pipefish, Gray's Pipefish [66221]  |            | Species or species habitat may occur within area |
| <a href="#">Halicampus nitidus</a><br>Glittering Pipefish [66224]  |            | Species or species habitat may occur within area |
| <a href="#">Halicampus spinirostris</a><br>Spiny-snout Pipefish [66225]  |            | Species or species habitat may occur within area |
| <a href="#">Haliichthys taeniophorus</a><br>Ribbioned Pipehorse, Ribbioned Seadragon [66226]                       |            | Species or species habitat may occur within area |
| <a href="#">Hippichthys penicillus</a><br>Beady Pipefish, Steep-nosed Pipefish [66231]                             |            | Species or species habitat may occur within area |
| <a href="#">Hippocampus angustus</a><br>Western Spiny Seahorse, Narrow-bellied Seahorse [66234]                    |            | Species or species habitat may occur within area |
| <a href="#">Hippocampus histrix</a><br>Spiny Seahorse, Thorny Seahorse [66236]                                     |            | Species or species habitat may occur within area |
| <a href="#">Hippocampus kuda</a><br>Spotted Seahorse, Yellow Seahorse [66237]                                      |            | Species or species habitat may occur within area |
| <a href="#">Hippocampus planifrons</a><br>Flat-face Seahorse [66238]   |            | Species or species habitat may occur within area |
| <a href="#">Hippocampus trimaculatus</a><br>Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720] |            | Species or species habitat may occur within area |

| Name  | Threatened            | Type of Presence  |
|---|-----------------------|---|
| <a href="#">Micrognathus micronotopterus</a><br>Tidepool Pipefish [66255]   |                       | Species or species habitat may occur within area                  |
| <a href="#">Phoxocampus belcheri</a><br>Black Rock Pipefish [66719]   |                       | Species or species habitat may occur within area                  |
| <a href="#">Solegnathus hardwickii</a><br>Pallid Pipehorse, Hardwick's Pipehorse [66272]                                    |                       | Species or species habitat may occur within area                  |
| <a href="#">Solegnathus lettiensis</a><br>Gunther's Pipehorse, Indonesian Pipefish [66273]                                  |                       | Species or species habitat may occur within area                  |
| <a href="#">Solenostomus cyanopterus</a><br>Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]                       |                       | Species or species habitat may occur within area                  |
| <a href="#">Syngnathoides biaculeatus</a><br>Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]       |                       | Species or species habitat may occur within area                  |
| <a href="#">Trachyrhamphus bicoarctatus</a><br>Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]       |                       | Species or species habitat may occur within area                  |
| <a href="#">Trachyrhamphus longirostris</a><br>Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281] |                       | Species or species habitat may occur within area                  |
| <b>Mammals</b>  |                       |   |
| <a href="#">Dugong dugon</a><br>Dugong [28]   |                       | Breeding known to occur within area                               |
| <b>Reptiles</b>   |                       |   |
| <a href="#">Acalyptophis peronii</a><br>Horned Seasnake [1114]  |                       | Species or species habitat may occur within area                  |
| <a href="#">Aipysurus apraefrontalis</a><br>Short-nosed Seasnake [1115]   | Critically Endangered | Species or species habitat likely to occur within area            |
| <a href="#">Aipysurus duboisii</a><br>Dubois' Seasnake [1116]   |                       | Species or species habitat may occur within area                  |
| <a href="#">Aipysurus eydouxii</a><br>Spine-tailed Seasnake [1117]  |                       | Species or species habitat may occur within area                  |
| <a href="#">Aipysurus laevis</a><br>Olive Seasnake [1120]   |                       | Species or species habitat may occur within area                  |
| <a href="#">Astrotia stokesii</a><br>Stokes' Seasnake [1122]  |                       | Species or species habitat may occur within area                  |
| <a href="#">Caretta caretta</a><br>Loggerhead Turtle [1763]   | Endangered            | Foraging, feeding or related behaviour known to occur within area |
| <a href="#">Chelonia mydas</a><br>Green Turtle [1765]   | Vulnerable            | Breeding known to occur within area                               |
| <a href="#">Dermochelys coriacea</a><br>Leatherback Turtle, Leathery Turtle, Luth [1768]                                    | Endangered            | Species or species habitat known to occur within area             |



| Name   | Threatened | Type of Presence                                 |
|--|------------|--|
| <a href="#">Disteira kingii</a><br>Spectacled Seasnake [1123]                      |            | Species or species habitat may occur within area |
| <a href="#">Disteira major</a><br>Olive-headed Seasnake [1124]                     |            | Species or species habitat may occur within area |
| <a href="#">Emydocephalus annulatus</a><br>Turtle-headed Seasnake [1125]           |            | Species or species habitat may occur within area |
| <a href="#">Ephalophis greyi</a><br>North-western Mangrove Seasnake [1127]         |            | Species or species habitat may occur within area |
| <a href="#">Eretmochelys imbricata</a><br>Hawksbill Turtle [1766]                  | Vulnerable | Breeding known to occur within area              |
| <a href="#">Hydrophis czebukovi</a><br>Fine-spined Seasnake [59233]                |            | Species or species habitat may occur within area |
| <a href="#">Hydrophis elegans</a><br>Elegant Seasnake [1104]                       |            | Species or species habitat may occur within area |
| <a href="#">Hydrophis ornatus</a><br>Spotted Seasnake, Ornate Reef Seasnake [1111] |            | Species or species habitat may occur within area |
| <a href="#">Natator depressus</a><br>Flatback Turtle [59257]                       | Vulnerable | Breeding known to occur within area              |
| <a href="#">Pelamis platurus</a><br>Yellow-bellied Seasnake [1091]                 |            | Species or species habitat may occur within area |

## Whales and other Cetaceans [ [Resource Information](#) ]

| Name  | Status     | Type of Presence                                       |
|---|------------|--|
| <b>Mammals</b>  |            |  |
| <a href="#">Balaenoptera acutorostrata</a><br>Minke Whale [33]                        |            | Species or species habitat may occur within area       |
| <a href="#">Balaenoptera borealis</a><br>Sei Whale [34]                               | Vulnerable | Species or species habitat likely to occur within area |
| <a href="#">Balaenoptera edeni</a><br>Bryde's Whale [35]                              |            | Species or species habitat may occur within area       |
| <a href="#">Balaenoptera musculus</a><br>Blue Whale [36]                              | Endangered | Species or species habitat likely to occur within area |
| <a href="#">Balaenoptera physalus</a><br>Fin Whale [37]                               | Vulnerable | Species or species habitat likely to occur within area |
| <a href="#">Delphinus delphis</a><br>Common Dolphin, Short-beaked Common Dolphin [60] |            | Species or species habitat may occur within area       |
| <a href="#">Eubalaena australis</a><br>Southern Right Whale [40]                      | Endangered | Species or species habitat may occur within area       |
| <a href="#">Grampus griseus</a><br>Risso's Dolphin, Grampus [64]                      |            | Species or species habitat may occur within            |

| Name   | Status     | Type of Presence area                                  |
|--|------------|--|
| <a href="#">Megaptera novaeangliae</a><br>Humpback Whale [38]  | Vulnerable | Breeding known to occur within area                    |
| <a href="#">Orcinus orca</a><br>Killer Whale, Orca [46]  |            | Species or species habitat may occur within area       |
| <a href="#">Sousa chinensis</a><br>Indo-Pacific Humpback Dolphin [50]  |            | Species or species habitat likely to occur within area |
| <a href="#">Stenella attenuata</a><br>Spotted Dolphin, Pantropical Spotted Dolphin [51]  |            | Species or species habitat may occur within area       |
| <a href="#">Tursiops aduncus</a><br>Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]                                |            | Species or species habitat likely to occur within area |
| <a href="#">Tursiops aduncus (Arafura/Timor Sea populations)</a><br>Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900] |            | Species or species habitat known to occur within area  |
| <a href="#">Tursiops truncatus s. str.</a><br>Bottlenose Dolphin [68417]   |            | Species or species habitat may occur within area       |

## Extra Information

| State and Territory Reserves            | [ Resource Information ] |
|---|--------------------------|
| Name                                    | State                    |
| Bessieres Island                        | WA                       |
| Cane River                              | WA                       |
| Cane River (Mount Minnie and Nanutarra) | WA                       |
| Little Rocky Island                     | WA                       |
| Locker Island                           | WA                       |
| Round Island                            | WA                       |
| Serrurier Island                        | WA                       |
| Unnamed WA44665                         | WA                       |
| Weld Island                             | WA                       |

| 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 Resources Audit, 2001. |                          |

| Name   | Status | Type of Presence                                       |
|--|--------|--|
| <b>Birds</b>   |        |  |
| Columba livia<br>Rock Pigeon, Rock Dove, Domestic Pigeon [803] |        | Species or species habitat likely to occur within area |
| <b>Mammals</b>   |        |  |
| Canis lupus familiaris<br>Domestic Dog [82654]                 |        | Species or species habitat likely to occur within area |
| Capra hircus<br>Goat [2]                                       |        | Species or species habitat likely to occur within area |
| Equus asinus<br>Donkey, Ass [4]                                |        | Species or species habitat likely to occur within area |



| Name   | Status | Type of Presence                                       |
|--|--------|--|
| Felis catus<br>Cat, House Cat, Domestic Cat [19]       |        | Species or species habitat likely to occur within area |
| Mus musculus<br>House Mouse [120]                      |        | Species or species habitat likely to occur within area |
| Oryctolagus cuniculus<br>Rabbit, European Rabbit [128] |        | Species or species habitat likely to occur within area |
| Vulpes vulpes<br>Red Fox, Fox [18]                     |        | Species or species habitat likely to occur within area |

#### Plants

|   |  |  |
|---|--|--|
| Cenchrus ciliaris<br>Buffel-grass, Black Buffel-grass [20213]                             |  | Species or species habitat likely to occur within area |
| Parkinsonia aculeata<br>Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301] |  | Species or species habitat likely to occur within area |
| Prosopis spp.<br>Mesquite, Algaroba [68407]   |  | Species or species habitat likely to occur within area |

#### Reptiles

|  |  |  |
|--|--|--|
| Ramphotyphlops braminus<br>Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258] |  | Species or species habitat may occur within area |
|--|--|--|

#### Nationally Important Wetlands

[ [Resource Information](#) ]

| Name                              | State |
|-----------------------------------|-------|
| <a href="#">Exmouth Gulf East</a> | WA    |

# 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

-21.787829 115.047473,-21.795001 115.357851,-21.900694 115.65433,-21.964174 115.954181,-22.067211 116.184602



# 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](#)
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- [-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.

# NatureMap Fauna Species Report

Created By Colleen McDonald on 02/06/2020

Kingdom Animalia  
Current Names Only Yes  
Core Datasets Only Yes  
Method 'By Line'  
Vertices 21° 47' 16" S, 115° 02' 51" E 21° 47' 42" S, 115° 21' 28" E 21° 54' 02" S, 115° 39' 16" E  
Group By Conservation Status

| Conservation Status                     | Species    | Records      |
|---|------------|--------------|
| Non-conservation taxon                  | 749        | 36083        |
| Other specially protected fauna         | 4          | 107          |
| Priority 1                              | 1          | 1            |
| Priority 4                              | 4          | 402          |
| Protected under international agreement | 27         | 557          |
| Rare or likely to become extinct        | 17         | 376          |
| <b>TOTAL</b>                            | <b>802</b> | <b>37526</b> |

| Name ID  | Species Name  | Naturalised | Conservation Code | Endemic To Query Area |
|--|---|-------------|-------------------|-----------------------|
| <b>Rare or likely to become extinct</b>        |   |             |                   |                       |
| 1.   | 24783 <i>Calidris canutus</i> subsp. <i>rogersi</i> (Red Knot (north-eastern Siberia))              |             | T                 |                       |
| 2.   | 24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)   |             | T                 |                       |
| 3.   | 24790 <i>Calidris tenuirostris</i> (Great Knot)   |             | T                 |                       |
| 4.   | 25335 <i>Caretta caretta</i> (Loggerhead Turtle)  |             | T                 |                       |
| 5.   | 25575 <i>Charadrius leschenaultii</i> (Greater Sand Plover)   |             | T                 |                       |
| 6.   | 24372 <i>Charadrius leschenaultii</i> subsp. <i>leschenaultii</i> (Greater Sand Plover (Mongolian)) |             | T                 |                       |
| 7.   | 25576 <i>Charadrius mongolus</i> (Lesser Sand Plover)   |             | T                 |                       |
| 8.   | 25336 <i>Chelonia mydas</i> (Green Turtle)  |             | T                 |                       |
| 9.   | 24093 <i>Dasyurus hallucatus</i> (Northern Quoll)   |             | T                 |                       |
| 10.  | 25473 <i>Eretmochelys imbricata</i> (Hawksbill Turtle)  |             | T                 |                       |
| 11.  | 25238 <i>Liasis olivaceus</i> subsp. <i>barroni</i> (Pilbara Olive Python)                          |             | T                 |                       |
| 12.  | 24796 <i>Limosa lapponica</i> subsp. <i>menzbieri</i> (Bar-tailed Godwit (northern Siberian))       |             | T                 |                       |
| 13.  | 25344 <i>Natator depressus</i> (Flatback Turtle)  |             | T                 |                       |
| 14.  | 24798 <i>Numenius madagascariensis</i> (Eastern Curlew)   |             | T                 |                       |
| 15.  | 25504 <i>Perameles bougainville</i> (Western Barred Bandicoot, Little Marl, Shark Bay Bandicoot)    |             | T                 |                       |
| 16.  | 24743 <i>Pezoporus occidentalis</i> (Night Parrot)  |             | T                 |                       |
| 17.  | 34037 <i>Pristis zijsron</i> (Green Sawfish)  |             | T                 |                       |
| <b>Protected under international agreement</b> |   |             |                   |                       |
| 18.  | 41323 <i>Actitis hypoleucos</i> (Common Sandpiper)  |             | IA                |                       |
| 19.  | 25554 <i>Apus pacificus</i> (Fork-tailed Swift, Pacific Swift)                                      |             | IA                |                       |
| 20.  | 25736 <i>Arenaria interpres</i> (Ruddy Turnstone)   |             | IA                |                       |
| 21.  | 24779 <i>Calidris acuminata</i> (Sharp-tailed Sandpiper)  |             | IA                |                       |
| 22.  | 24780 <i>Calidris alba</i> (Sanderling)   |             | IA                |                       |
| 23.  | 24786 <i>Calidris melanotos</i> (Pectoral Sandpiper)  |             | IA                |                       |
| 24.  | 24788 <i>Calidris ruficollis</i> (Red-necked Stint)   |             | IA                |                       |
| 25.  | 24378 <i>Charadrius veredus</i> (Oriental Plover)   |             | IA                |                       |
| 26.  | 41332 <i>Chlidonias leucopterus</i> (White-winged Black Tern, white-winged tern)                    |             | IA                |                       |
| 27.  | 47954 <i>Gelochelidon nilotica</i> (Gull-billed Tern)   |             | IA                |                       |
| 28.  | 24481 <i>Glareola maldivarum</i> (Oriental Pratincole)  |             | IA                |                       |
| 29.  | 25630 <i>Hirundo rustica</i> (Barn Swallow)   |             | IA                |                       |
| 30.  | 48587 <i>Hydroprogne caspia</i> (Caspian Tern)  |             | IA                |                       |
| 31.  | 30932 <i>Limosa lapponica</i> (Bar-tailed Godwit)   |             | IA                |                       |
| 32.  | 24799 <i>Numenius minutus</i> (Little Curlew, Little Whimbrel)                                      |             | IA                |                       |
| 33.  | 25742 <i>Numenius phaeopus</i> (Whimbrel)   |             | IA                |                       |
| 34.  | 24497 <i>Oceanites oceanicus</i> (Wilson's Storm-petrel)  |             | IA                |                       |
| 35.  | 48591 <i>Pandion cristatus</i> (Osprey, Eastern Osprey)   |             | IA                |                       |
| 36.  | 24843 <i>Plegadis falcinellus</i> (Glossy Ibis)   |             | IA                |                       |
| 37.  | 24383 <i>Pluvialis squatarola</i> (Grey Plover)   |             | IA                |                       |
| 38.  | 24716 <i>Puffinus pacificus</i> (Wedge-tailed Shearwater)   |             | IA                |                       |
| 39.  | 25640 <i>Sterna dougallii</i> (Roseate Tern)  |             | IA                |                       |
| 40.  | 25642 <i>Sterna hirundo</i> (Common Tern)   |             | IA                |                       |



| Name ID                                | Species Name   | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|--|--|-------------|-------------------|------------------------------------|
| 41.                                    | 48593 <i>Sternula albifrons</i> (Little Tern)  |             | IA                |                                    |
| 42.                                    | 48597 <i>Thalasseus bergii</i> (Crested Tern)  |             | IA                |                                    |
| 43.                                    | 24806 <i>Tringa glareola</i> (Wood Sandpiper)  |             | IA                |                                    |
| 44.                                    | 24808 <i>Tringa nebularia</i> (Common Greenshank, greenshank)  |             | IA                |                                    |
| <b>Other specially protected fauna</b> |  |             |                   |                                    |
| 45.                                    | 24859 <i>Crocodylus porosus</i> (Salt-water Crocodile)   |             | S                 |                                    |
| 46.                                    | 24084 <i>Dugong dugon</i> (Dugong)   |             | S                 |                                    |
| 47.                                    | 25624 <i>Falco peregrinus</i> (Peregrine Falcon)   |             | S                 |                                    |
| 48.                                    | 24051 <i>Megaptera novaeangliae</i> (Humpback Whale)   |             | S                 |                                    |
| <b>Priority 1</b>                      |  |             |                   |                                    |
| 49.                                    | 25164 <i>Lerista planiventralis</i> subsp. <i>maryani</i> (Maryan's keeled slider (Ashburton), Keeled Slider (NW coast Onslow to Barradale)) |             | P1                |                                    |
| <b>Priority 4</b>                      |  |             |                   |                                    |
| 50.                                    | 24217 <i>Leggadina lakedownensis</i> (Northern Short-tailed Mouse, Lakeland Downs Mouse, Kerakenga)  |             | P4                |                                    |
| 51.                                    | 24233 <i>Pseudomys chapmani</i> (Western Pebble-mound Mouse, Ngadjji)  |             | P4                |                                    |
| 52.                                    | 48107 <i>Sousa sahulensis</i> (Australian humpback dolphin)  |             | P4                |                                    |
| 53.                                    | 24803 <i>Tringa brevipes</i> (Grey-tailed Tattler)   |             | P4                |                                    |
| <b>Non-conservation taxon</b>          |  |             |                   |                                    |
| 54.                                    | ??   |             |                   |                                    |
| 55.                                    | <i>Ablennes hians</i>  |             |                   |                                    |
| 56.                                    | <i>Abudedefduf bengalensis</i>   |             |                   |                                    |
| 57.                                    | 24559 <i>Acanthagenys rufogularis</i> (Spiny-cheeked Honeyeater)   |             |                   |                                    |
| 58.                                    | <i>Acanthocephala abbreviata</i>   |             |                   |                                    |
| 59.                                    | <i>Acanthopagrus latus</i>   |             |                   |                                    |
| 60.                                    | <i>Acanthopagrus palmaris</i>  |             |                   |                                    |
| 61.                                    | 25243 <i>Acanthophis pyrrhus</i> (Desert Death Adder)  |             |                   |                                    |
| 62.                                    | <i>Acanthophis</i> sp.   |             |                   |                                    |
| 63.                                    | 25332 <i>Acanthophis wellsi</i> (Pilbara Death Adder)  |             |                   |                                    |
| 64.                                    | <i>Acariformes</i> sp.   |             |                   |                                    |
| 65.                                    | 25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)  |             |                   |                                    |
| 66.                                    | 25536 <i>Accipiter fasciatus</i> (Brown Goshawk)   |             |                   |                                    |
| 67.                                    | <i>Acentrogobius viridipunctatus</i>   |             |                   |                                    |
| 68.                                    | <i>Achnanthydium minutissima</i> (Kütz.) Czarnecki   |             |                   |                                    |
| 69.                                    | 25751 <i>Acridotheres tristis</i> (Common Myna)  | Y           |                   |                                    |
| 70.                                    | 25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)  |             |                   |                                    |
| 71.                                    | <i>Adventor elongatus</i>  |             |                   |                                    |
| 72.                                    | <i>Adversaeschna brevistyla</i>  |             |                   |                                    |
| 73.                                    | 25544 <i>Aegotheles cristatus</i> (Australian Owllet-nightjar)   |             |                   |                                    |
| 74.                                    | <i>Aeolosoma</i> sp. 1 (PSS)   |             |                   |                                    |
| 75.                                    | <i>Agraptocorixa parvipunctata</i>   |             |                   |                                    |
| 76.                                    | <i>Agraptocorixa</i> sp.   |             |                   |                                    |
| 77.                                    | 25355 <i>Aipysurus laevis</i> (Olive Seasnake)   |             |                   |                                    |
| 78.                                    | <i>Alectis indica</i>  |             |                   |                                    |
| 79.                                    | <i>Allodessus bistrigatus</i>  |             |                   |                                    |
| 80.                                    | <i>Alona</i> cf. <i>rectangula</i> (but may be > 1 spp.)   |             |                   |                                    |
| 81.                                    | <i>Alona rectangula novaezealandiae</i>  |             |                   |                                    |
| 82.                                    | <i>Ambassis agassizi</i>   |             |                   |                                    |
| 83.                                    | <i>Ambassis gymnocephalus</i>  |             |                   |                                    |
| 84.                                    | <i>Amniataba caudavittata</i>  |             |                   |                                    |
| 85.                                    | <i>Amniataba percoides</i>   |             |                   |                                    |
| 86.                                    | <i>Amniataba percoides?</i>  |             |                   | Y                                  |
| 87.                                    | 30831 <i>Amphibolurus gilberti</i> (Ta-ta, Gilbert's Dragon)   |             |                   |                                    |
| 88.                                    | 30833 <i>Amphibolurus longirostris</i> (Long-nosed Dragon)   |             |                   |                                    |
| 89.                                    | <i>Aname ellenae</i>   |             |                   |                                    |
| 90.                                    | 24312 <i>Anas gracilis</i> (Grey Teal)   |             |                   |                                    |
| 91.                                    | 24316 <i>Anas superciliosa</i> (Pacific Black Duck)  |             |                   |                                    |
| 92.                                    | <i>Anax papuensis</i>  |             |                   |                                    |
| 93.                                    | <i>Ancylidae</i> sp.   |             |                   |                                    |
| 94.                                    | 47414 <i>Anhinga novaeollandiae</i> (Australasian Darter)  |             |                   |                                    |
| 95.                                    | <i>Anisops canaliculatus</i>   |             |                   |                                    |
| 96.                                    | <i>Anisops nasutus</i>   |             |                   |                                    |
| 97.                                    | <i>Anisops paraexigerus</i>  |             |                   |                                    |
| 98.                                    | <i>Anisops</i> sp.   |             |                   |                                    |
| 99.                                    | <i>Anisops stali</i>   |             |                   |                                    |
| 100.                                   | <i>Anisops thienemanni</i>   |             |                   |                                    |
| 101.                                   | <i>Anomoeoneis brachysira</i> (Bréb.) Grun.  |             |                   |                                    |
| 102.                                   | <i>Anopheles annulipes</i> s.l.  |             |                   |                                    |

| Name ID | Species Name  | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|---|-------------|-------------------|------------------------------------|
| 103.    | 25318 <i>Antaresia perthensis</i> (Pygmy Python)  |             |                   |                                    |
| 104.    | 25448 <i>Antaresia stimsoni</i> (Stimson's Python)  |             |                   |                                    |
| 105.    | 25241 <i>Antaresia stimsoni</i> subsp. <i>stimsoni</i> (Stimson's Python)                   |             |                   |                                    |
| 106.    | 25670 <i>Anthus australis</i> (Australian Pipit)  |             |                   |                                    |
| 107.    | <i>Antichiropus</i> sp.   |             |                   |                                    |
| 108.    | <i>Apistus carinatus</i>  |             |                   |                                    |
| 109.    | <i>Apogon rueppellii</i>  |             |                   |                                    |
| 110.    | 24285 <i>Aquila audax</i> (Wedge-tailed Eagle)  |             |                   |                                    |
| 111.    | <i>Arcella</i> sp. P1   |             |                   |                                    |
| 112.    | 25557 <i>Ardea garzetta</i> (Little Egret)  |             |                   |                                    |
| 113.    | 24337 <i>Ardea garzetta</i> subsp. <i>nigripes</i> (Little Egret)                           |             |                   |                                    |
| 114.    | 25558 <i>Ardea ibis</i> (Cattle Egret)  |             |                   |                                    |
| 115.    | 25559 <i>Ardea intermedia</i> (Intermediate Egret)  |             |                   |                                    |
| 116.    | 41324 <i>Ardea modesta</i> (great egret, white egret)                                       |             |                   |                                    |
| 117.    | 24340 <i>Ardea novaehollandiae</i> (White-faced Heron)                                      |             |                   |                                    |
| 118.    | 24341 <i>Ardea pacifica</i> (White-necked Heron)  |             |                   |                                    |
| 119.    | 25560 <i>Ardea sacra</i> (Eastern Reef Egret, Eastern Reef Heron)                           |             |                   |                                    |
| 120.    | 24610 <i>Ardeotis australis</i> (Australian Bustard)  |             |                   |                                    |
| 121.    | <i>Areacandona 'undulata'</i> (PSS)   |             |                   | Y                                  |
| 122.    | <i>Areacandona</i> sp. 6' (PSS)   |             |                   | Y                                  |
| 123.    | <i>Argiocnemis rubescens</i>  |             |                   |                                    |
| 124.    | <i>Arothron manilensis</i>  |             |                   |                                    |
| 125.    | <i>Arrenurus</i> ( <i>Arrenurus</i> ) <i>balladoniensis</i>                                 |             |                   |                                    |
| 126.    | <i>Arrhamphus sclerolepis</i>   |             |                   |                                    |
| 127.    | 25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)                                     |             |                   |                                    |
| 128.    | 24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)  |             |                   |                                    |
| 129.    | 25567 <i>Artamus leucorhynchus</i> (White-breasted Woodswallow)                             |             |                   |                                    |
| 130.    | 24354 <i>Artamus leucorhynchus</i> subsp. <i>leucopygialis</i> (White-breasted Woodswallow) |             |                   |                                    |
| 131.    | 24355 <i>Artamus minor</i> (Little Woodswallow)   |             |                   |                                    |
| 132.    | 24356 <i>Artamus personatus</i> (Masked Woodswallow)  |             |                   |                                    |
| 133.    | <i>Artema atlanta</i>   |             |                   |                                    |
| 134.    | <i>Asadipus yundamindra</i>   |             |                   |                                    |
| 135.    | 25320 <i>Aspidites melanocephalus</i> (Black-headed Python)                                 |             |                   |                                    |
| 136.    | <i>Assiculus punctatus</i>  |             |                   |                                    |
| 137.    | <i>Atelomycterus fasciatus</i>  |             |                   |                                    |
| 138.    | <i>Atherinid</i> sp.  |             |                   |                                    |
| 139.    | <i>Atherinomorus endrachtensis</i>  |             |                   |                                    |
| 140.    | <i>Atherinomorus vaigiensis</i>   |             |                   |                                    |
| 141.    | <i>Aulacoseira ambigua</i>  |             |                   |                                    |
| 142.    | <i>Aulacoseira granulata</i> (Ehr.) Simonsen  |             |                   |                                    |
| 143.    | <i>Aulopus purpurissatus</i>  |             |                   |                                    |
| 144.    | <i>Australobolbus pseudobscurius</i>  |             |                   |                                    |
| 145.    | <i>Australocyclops</i> sp.  |             |                   |                                    |
| 146.    | <i>Austrolestes aridus</i>  |             |                   |                                    |
| 147.    | <i>Austronibea oedegeyns?</i>   |             |                   | Y                                  |
| 148.    | <i>Austropeplea lessoni</i>   |             |                   |                                    |
| 149.    | 24318 <i>Aythya australis</i> (Hardhead)  |             |                   |                                    |
| 150.    | <i>Baetidae</i> sp.   |             |                   |                                    |
| 151.    | <i>Barnardius zonarius</i>  |             |                   |                                    |
| 152.    | <i>Bathygobius cocosensis</i>   |             |                   |                                    |
| 153.    | <i>Bathygobius fuscus</i>   |             |                   |                                    |
| 154.    | <i>Bathynella</i> sp.   |             |                   |                                    |
| 155.    | <i>Bdelloidea</i> sp. 2:2   |             |                   |                                    |
| 156.    | <i>Bdelloidea</i> sp. 3:3   |             |                   |                                    |
| 157.    | <i>Bennelongia australis</i> OrdX (PSW)   |             |                   |                                    |
| 158.    | <i>Bennelongia cb</i>   |             |                   | Y                                  |
| 159.    | <i>Bennelongia minimus</i>  |             |                   |                                    |
| 160.    | <i>Bennelongia nimala</i>   |             |                   |                                    |
| 161.    | <i>Bennelongia triangulata</i> (ex sp 414 /460 (CB)   |             |                   |                                    |
| 162.    | <i>Berosus nutans</i>   |             |                   |                                    |
| 163.    | <i>Berosus pulchellus</i>   |             |                   |                                    |
| 164.    | <i>Berosus</i> sp.  |             |                   |                                    |
| 165.    | <i>Blennodesmus scapularis</i>  |             |                   |                                    |
| 166.    | <i>Bodianus frenchii</i>  |             |                   |                                    |
| 167.    | <i>Boeckella triarticulata</i>  |             |                   |                                    |
| 168.    | <i>Bolboleaus truncatus</i>   |             |                   |                                    |
| 169.    | 24251 <i>Bos taurus</i> (European Cattle)   | Y           |                   |                                    |
| 170.    | <i>Brachionus dichotomus</i>  |             |                   |                                    |
| 171.    | <i>Brachionus falcatus</i>  |             |                   |                                    |
| 172.    | <i>Brachionus leydigii</i>  |             |                   |                                    |



| Name ID | Species Name   | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|--|-------------|-------------------|------------------------------------|
| 173.    | <i>Brachionus quadridentatus</i>   |             |                   |                                    |
| 174.    | <i>Branchinella halsei</i>   |             |                   |                                    |
| 175.    | 24359 <i>Burhinus grallarius</i> (Bush Stone-curlew)                                   |             |                   |                                    |
| 176.    | <i>Butis amboinensis</i>   |             |                   |                                    |
| 177.    | 47897 <i>Butorides striata</i> (Striated Heron, Mangrove Heron)                        |             |                   |                                    |
| 178.    | 25715 <i>Cacatua roseicapilla</i> (Galah)  |             |                   |                                    |
| 179.    | 25716 <i>Cacatua sanguinea</i> (Little Corella)  |             |                   |                                    |
| 180.    | 42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)                                       |             |                   |                                    |
| 181.    | <i>Caenidae</i> sp.  |             |                   |                                    |
| 182.    | 24269 <i>Calamanthus campestris</i> (Rufous Fieldwren)                                 |             |                   |                                    |
| 183.    | <i>Calamoecia baylyi</i> (Cue form) (ex nr lucasi CB)                                  |             |                   |                                    |
| 184.    | <i>Canthigaster coronata</i>   |             |                   |                                    |
| 185.    | <i>Caranx ignobilis</i>  |             |                   |                                    |
| 186.    | <i>Caranx sexfasciatus</i>   |             |                   |                                    |
| 187.    | <i>Carenum pulchrum</i>  |             |                   |                                    |
| 188.    | <i>Carenum venustum</i>  |             |                   |                                    |
| 189.    | 25015 <i>Carlia munda</i> (Shaded-litter Rainbow Skink)                                |             |                   |                                    |
| 190.    | <i>Cavisternum clavatum</i>  |             |                   |                                    |
| 191.    | 25600 <i>Centropus phasianinus</i> (Pheasant Coucal)                                   |             |                   |                                    |
| 192.    | <i>Ceratopogonidae</i> sp.   |             |                   |                                    |
| 193.    | <i>Ceriodaphnia cornuta</i>  |             |                   |                                    |
| 194.    | 24564 <i>Certhionyx variegatus</i> (Pied Honeyeater)                                   |             |                   |                                    |
| 195.    | 24181 <i>Chaerephon jobensis</i> (Greater Northern Freetail-bat, Northern Mastiff Bat) |             |                   |                                    |
| 196.    | <i>Chaetodontoplus duboulayi</i>   |             |                   |                                    |
| 197.    | 24186 <i>Chalinolobus gouldii</i> (Gould's Wattled Bat)                                |             |                   |                                    |
| 198.    | <i>Chanos chanos</i>   |             |                   |                                    |
| 199.    | <i>Chaoboridae</i> sp.   |             |                   |                                    |
| 200.    | 24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)                               |             |                   |                                    |
| 201.    | <i>Chelonodon patoca</i>   |             |                   |                                    |
| 202.    | 24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)                       |             |                   |                                    |
| 203.    | 47909 <i>Cheramoeca leucosterna</i> (White-backed Swallow)                             |             |                   |                                    |
| 204.    | <i>Chimarra</i> sp AV17 (PSW)  |             |                   |                                    |
| 205.    | <i>Chirocentrus dorab</i>  |             |                   |                                    |
| 206.    | <i>Chironominae</i> sp.  |             |                   |                                    |
| 207.    | <i>Chlaenius australis</i>   |             |                   |                                    |
| 208.    | <i>Choerodon cyanodus</i>  |             |                   |                                    |
| 209.    | <i>Chroicocephalus novaehollandiae</i>   |             |                   |                                    |
| 210.    | 24431 <i>Chrysococcyx basalis</i> (Horsfield's Bronze Cuckoo)                          |             |                   |                                    |
| 211.    | 24434 <i>Chrysococcyx osculans</i> (Black-eared Cuckoo)                                |             |                   |                                    |
| 212.    | 24288 <i>Circus approximans</i> (Swamp Harrier)  |             |                   |                                    |
| 213.    | 24289 <i>Circus assimilis</i> (Spotted Harrier)  |             |                   |                                    |
| 214.    | 24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)                                |             |                   |                                    |
| 215.    | <i>Cloeon</i> sp.  |             |                   |                                    |
| 216.    | <i>Cloeon</i> sp. P1 (PSW)   |             |                   |                                    |
| 217.    | <i>Cocconeis placentula</i> var. <i>euglypta</i> ehr.                                  |             |                   |                                    |
| 218.    | <i>Coenagrionidae</i> sp.  |             |                   |                                    |
| 219.    | 25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)                              |             |                   |                                    |
| 220.    | 24399 <i>Columba livia</i> (Domestic Pigeon)   | Y           |                   |                                    |
| 221.    | <i>Colurodontis paxmani</i>  |             |                   |                                    |
| 222.    | 25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)                      |             |                   |                                    |
| 223.    | <i>Coradion chrysozonus</i>  |             |                   |                                    |
| 224.    | <i>Corduliidae</i> sp.   |             |                   |                                    |
| 225.    | <i>Coris aygula</i>  |             |                   |                                    |
| 226.    | <i>Corixidae</i> sp.   |             |                   |                                    |
| 227.    | 24416 <i>Corvus bennetti</i> (Little Crow)   |             |                   |                                    |
| 228.    | 25593 <i>Corvus orru</i> (Torresian Crow)  |             |                   |                                    |
| 229.    | 24671 <i>Coturnix pectoralis</i> (Stubble Quail)                                       |             |                   |                                    |
| 230.    | 25701 <i>Coturnix ypsilophora</i> (Brown Quail)  |             |                   |                                    |
| 231.    | 24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)                                 |             |                   |                                    |
| 232.    | 25595 <i>Cracticus tibicen</i> (Australian Magpie)                                     |             |                   |                                    |
| 233.    | <i>Cracticus tibicen</i> subsp. <i>longirostris</i>                                    |             |                   | Y                                  |
| 234.    | 25596 <i>Cracticus torquatus</i> (Grey Butcherbird)                                    |             |                   |                                    |
| 235.    | <i>Craterocephalus capreoli</i>  |             |                   |                                    |
| 236.    | <i>Craticula cuspidata</i> (Grun. ex. Van Heurck) Mann                                 |             |                   |                                    |
| 237.    | <i>Craticula halophila</i> (Grun. ex. Van Heurck) Mann                                 |             |                   |                                    |
| 238.    | <i>Cryptochironomus griseidorsum</i>   |             |                   |                                    |
| 239.    | <i>Cryptodus caviceps</i>  |             |                   |                                    |
| 240.    | <i>Cryptoerithus occultus</i>  |             |                   |                                    |
| 241.    | 25458 <i>Ctenophorus caudicinctus</i> (Ring-tailed Dragon)                             |             |                   |                                    |
| 242.    | 24865 <i>Ctenophorus caudicinctus</i> subsp. <i>caudicinctus</i> (Ring-tailed Dragon)  |             |                   |                                    |

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|---------|--|-------------|-------------------|------------------------------------|
| 243.    | 24872 <i>Ctenophorus femoralis</i> (Dune Dragon)   |             |                   |                                    |
| 244.    | 25459 <i>Ctenophorus isolepis</i> (Crested Dragon, Military Dragon)                        |             |                   |                                    |
| 245.    | 24875 <i>Ctenophorus isolepis</i> subsp. <i>gularis</i> (Central Military Dragon)          |             |                   |                                    |
| 246.    | 24876 <i>Ctenophorus isolepis</i> subsp. <i>isolepis</i> (Crested Dragon, Military Dragon) |             |                   |                                    |
| 247.    | 24882 <i>Ctenophorus nuchalis</i> (Central Netted Dragon)                                  |             |                   |                                    |
| 248.    | 24886 <i>Ctenophorus reticulatus</i> (Western Netted Dragon)                               |             |                   |                                    |
| 249.    | 24885 <i>Ctenophorus rubens</i> (Red Dragon)   |             |                   |                                    |
| 250.    | 24887 <i>Ctenophorus rufescens</i> (Red Rock Dragon)                                       |             |                   |                                    |
| 251.    | <i>Ctenotrypauchen microcephalus</i>   |             |                   |                                    |
| 252.    | 25032 <i>Ctenotus calurus</i>  |             |                   |                                    |
| 253.    | 25036 <i>Ctenotus duricola</i>   |             |                   |                                    |
| 254.    | 25462 <i>Ctenotus grandis</i>  |             |                   |                                    |
| 255.    | 25043 <i>Ctenotus grandis</i> subsp. <i>titan</i>  |             |                   |                                    |
| 256.    | 25044 <i>Ctenotus hanloni</i>  |             |                   |                                    |
| 257.    | 25045 <i>Ctenotus helenae</i>  |             |                   |                                    |
| 258.    | 25046 <i>Ctenotus iapetus</i>  |             |                   |                                    |
| 259.    | 25053 <i>Ctenotus maryani</i>  |             |                   |                                    |
| 260.    | 25463 <i>Ctenotus pantherinus</i> (Leopard Ctenotus)                                       |             |                   |                                    |
| 261.    | 25064 <i>Ctenotus pantherinus</i> subsp. <i>ocellifer</i> (Leopard Ctenotus)               |             |                   |                                    |
| 262.    | 25066 <i>Ctenotus quattuordecimlineatus</i>  |             |                   |                                    |
| 263.    | 25069 <i>Ctenotus rufescens</i>  |             |                   |                                    |
| 264.    | 25073 <i>Ctenotus saxatilis</i> (Rock Ctenotus)  |             |                   |                                    |
| 265.    | 25074 <i>Ctenotus schomburgkii</i>   |             |                   |                                    |
| 266.    | <i>Culicidae</i> sp.   |             |                   |                                    |
| 267.    | <i>Culicoides</i> sp.  |             |                   |                                    |
| 268.    | <i>Cybister tripunctatus</i>   |             |                   |                                    |
| 269.    | 25466 <i>Cyclodomorphus melanops</i> (Slender Blue-tongue)                                 |             |                   |                                    |
| 270.    | 25090 <i>Cyclodomorphus melanops</i> subsp. <i>melanops</i> (Slender Blue-tongue)          |             |                   |                                    |
| 271.    | 25375 <i>Cyclorana maini</i> (Sheep Frog)  |             |                   |                                    |
| 272.    | 25376 <i>Cyclorana platycephala</i> (Water-holding Frog)                                   |             |                   |                                    |
| 273.    | 24322 <i>Cygnus atratus</i> (Black Swan)   |             |                   |                                    |
| 274.    | <i>Cyrtella menghiniana</i> Kütz.  |             |                   |                                    |
| 275.    | <i>Cymbacephalus staigeri</i> ?  |             |                   |                                    |
| 276.    | <i>Cypretta 'triangulum'</i>   |             |                   |                                    |
| 277.    | <i>Cypretta ?lutea</i>   |             |                   |                                    |
| 278.    | <i>Cypretta baylyi</i>   |             |                   |                                    |
| 279.    | <i>Cypricercus salinus</i>   |             |                   |                                    |
| 280.    | <i>Cypricercus</i> sp. 422 (CB)  |             |                   |                                    |
| 281.    | <i>Cypricercus</i> sp. 442 (CB)  |             |                   |                                    |
| 282.    | 25547 <i>Dacelo leachii</i> (Blue-winged Kookaburra)                                       |             |                   |                                    |
| 283.    | 24304 <i>Dacelo leachii</i> subsp. <i>leachii</i> (Blue-winged Kookaburra)                 |             |                   |                                    |
| 284.    | <i>Dactylopus dactylopus</i>   |             |                   |                                    |
| 285.    | <i>Daphnia carinata</i>  |             |                   |                                    |
| 286.    | 24091 <i>Dasykaluta rosamondae</i> (Little Red Kaluta)                                     |             |                   |                                    |
| 287.    | 25000 <i>Delma haroldi</i>   |             |                   |                                    |
| 288.    | 25001 <i>Delma nasuta</i>  |             |                   |                                    |
| 289.    | 25002 <i>Delma pax</i>   |             |                   |                                    |
| 290.    | 25004 <i>Delma tincta</i>  |             |                   |                                    |
| 291.    | 25468 <i>Demansia psammophis</i> (Yellow-faced Whipsnake)                                  |             |                   |                                    |
| 292.    | 25295 <i>Demansia psammophis</i> subsp. <i>cupreiceps</i> (Yellow-faced Whipsnake)         |             |                   |                                    |
| 293.    | <i>Deminiotiocandona 'atope'</i> (PSS)   |             |                   | Y                                  |
| 294.    | 24325 <i>Dendrocygna eytoni</i> (Plumed Whistling Duck)                                    |             |                   |                                    |
| 295.    | <i>Diacyclops cockingi</i>   |             |                   |                                    |
| 296.    | <i>Diacyclops humphreysi humphreysi</i>  |             |                   |                                    |
| 297.    | <i>Dicranophorus epicharis</i>   |             |                   |                                    |
| 298.    | <i>Dicrotendipes</i> sp P4 (PSW)   |             |                   |                                    |
| 299.    | <i>Diffugia</i> sp. P1   |             |                   |                                    |
| 300.    | <i>Dineutus australis</i>  |             |                   |                                    |
| 301.    | <i>Diplacodes bipunctata</i>   |             |                   |                                    |
| 302.    | <i>Diplacodes haematodes</i>   |             |                   |                                    |
| 303.    | 47932 <i>Diplodactylus bilybara</i> (Western Fat-tailed Gecko)                             |             |                   |                                    |
| 304.    | 24926 <i>Diplodactylus conspicillatus</i> (Fat-tailed Gecko)                               |             |                   |                                    |
| 305.    | 24940 <i>Diplodactylus pulcher</i>   |             |                   |                                    |
| 306.    | 42400 <i>Diporiphora adductus</i> (Carnarvon Dragon)                                       |             |                   |                                    |
| 307.    | 42401 <i>Diporiphora paraconvergens</i> (Grey-striped Western Desert Dragon)               |             |                   |                                    |
| 308.    | <i>Dissotrocha</i> sp.   |             |                   |                                    |
| 309.    | <i>Drepane punctata</i>  |             |                   |                                    |
| 310.    | 24470 <i>Dromaius novaehollandiae</i> (Emu)  |             |                   |                                    |
| 311.    | <i>Drombus triangularis</i>  |             |                   |                                    |
| 312.    | <i>Dytiscidae</i> sp.  |             |                   |                                    |



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|---------|---|-------------|-------------------|------------------------------------|
| 313.    | <i>Echeneis naucrates</i>   |             |                   |                                    |
| 314.    | <i>Ennomidae sp.</i>  |             |                   |                                    |
| 315.    | <i>Egretta garzetta</i>   |             |                   |                                    |
| 316.    | <i>Egretta novaehollandiae</i>  |             |                   |                                    |
| 317.    | <i>Elanus axillaris</i>   |             |                   |                                    |
| 318.    | 25540 <i>Elanus caeruleus</i> (Black-shouldered Kite)   |             |                   |                                    |
| 319.    | <i>Elops hawaiensis</i>   |             |                   |                                    |
| 320.    | 47937 <i>Euseiornis melanops</i> (Black-fronted Dotterel)                                     |             |                   |                                    |
| 321.    | 24631 <i>Emblema pictum</i> (Painted Finch)   |             |                   |                                    |
| 322.    | <i>Engraulis australis?</i>   |             |                   | Y                                  |
| 323.    | <i>Enochrus deserticola</i>   |             |                   |                                    |
| 324.    | <i>Eolophus roseicapillus</i>   |             |                   |                                    |
| 325.    | 25362 <i>Ephalophis greyae</i>  |             |                   |                                    |
| 326.    | 24387 <i>Ephippiorhynchus asiaticus subsp. australis</i> (Black-necked Stork)                 |             |                   |                                    |
| 327.    | <i>Ephydriidae sp.</i>  |             |                   |                                    |
| 328.    | <i>Epinephelus amblycephalus</i>  |             |                   |                                    |
| 329.    | <i>Epinephelus corallicola</i>  |             |                   |                                    |
| 330.    | <i>Epinephelus lanceolatus</i>  |             |                   |                                    |
| 331.    | <i>Epinephelus malabaricus</i>  |             |                   |                                    |
| 332.    | <i>Epinephelus multinotatus</i>   |             |                   |                                    |
| 333.    | <i>Epinephelus quoyanus</i>   |             |                   |                                    |
| 334.    | <i>Epinephelus rankini</i> (invalid)  |             |                   | Y                                  |
| 335.    | <i>Epinephelus rivulatus</i>  |             |                   |                                    |
| 336.    | <i>Epinephelus sexfasciatus</i>   |             |                   |                                    |
| 337.    | <i>Epinephelus sp.</i>  |             |                   |                                    |
| 338.    | <i>Epinephelus tauvina</i>  |             |                   |                                    |
| 339.    | <i>Epistylis sp.</i>  |             |                   |                                    |
| 340.    | 24568 <i>Epthianura aurifrons</i> (Orange Chat)   |             |                   |                                    |
| 341.    | 24570 <i>Epthianura tricolor</i> (Crimson Chat)   |             |                   |                                    |
| 342.    | 24258 <i>Equus caballus</i> (Horse)   | Y           |                   |                                    |
| 343.    | 43381 <i>Eremiascincus pallidus</i> (Western Narrow-banded Skink, Narrow-banded Sand Swimmer) |             |                   |                                    |
| 344.    | 24837 <i>Eremiornis carteri</i> (Spinifex-bird)   |             |                   |                                    |
| 345.    | <i>Eretes australis</i>   |             |                   |                                    |
| 346.    | 24379 <i>Erythrogonys cinctus</i> (Red-kneed Dotterel)  |             |                   |                                    |
| 347.    | 47938 <i>Esacus magnirostris</i> (Beach Stone-curlew, Beach Thick-knee)                       |             |                   |                                    |
| 348.    | <i>Escualosa thoracata</i>  |             |                   | Y                                  |
| 349.    | <i>Euglypha sp.</i>   |             |                   |                                    |
| 350.    | <i>Eunotia bilunaris</i> (Ehr.) Mills.  |             |                   |                                    |
| 351.    | <i>Eunotia pectinatus</i> (Dillw.) Rabh.  |             |                   |                                    |
| 352.    | 24368 <i>Eurostopodus argus</i> (Spotted Nightjar)  |             |                   |                                    |
| 353.    | <i>Eurypegasmus draconis</i>  |             |                   |                                    |
| 354.    | <i>Eurysticta coolawanyah</i>   |             |                   |                                    |
| 355.    | 25621 <i>Falco berigora</i> (Brown Falcon)  |             |                   |                                    |
| 356.    | 25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)                          |             |                   |                                    |
| 357.    | 24472 <i>Falco cenchroides subsp. cenchroides</i> (Australian Kestrel, Nankeen Kestrel)       |             |                   |                                    |
| 358.    | 25623 <i>Falco longipennis</i> (Australian Hobby)   |             |                   |                                    |
| 359.    | 24476 <i>Falco subniger</i> (Black Falcon)  |             |                   |                                    |
| 360.    | 24041 <i>Felis catus</i> (Cat)  | Y           |                   |                                    |
| 361.    | <i>Feroxodon multistriatus</i>  |             |                   |                                    |
| 362.    | <i>Fistularia petimba</i>   |             |                   |                                    |
| 363.    | 25327 <i>Fordonia leucobalia</i> (White-bellied Mangrove Snake)                               |             |                   |                                    |
| 364.    | <i>Fragilaria ulna</i> (Nitz.) Lange Bertalot   |             |                   |                                    |
| 365.    | 25727 <i>Fulica atra</i> (Eurasian Coot)  |             |                   |                                    |
| 366.    | 25301 <i>Furina ornata</i> (Moon Snake)   |             |                   |                                    |
| 367.    | 25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)                                      |             |                   |                                    |
| 368.    | 42314 <i>Gavicalis virescens</i> (Singing Honeyeater)   |             |                   |                                    |
| 369.    | 24952 <i>Gehyra australis</i>   |             |                   |                                    |
| 370.    | 24956 <i>Gehyra pilbara</i>   |             |                   |                                    |
| 371.    | 24958 <i>Gehyra punctata</i>  |             |                   |                                    |
| 372.    | 24957 <i>Gehyra purpurascens</i>  |             |                   |                                    |
| 373.    | 24959 <i>Gehyra variegata</i>   |             |                   |                                    |
| 374.    | 24401 <i>Geopelia cuneata</i> (Diamond Dove)  |             |                   |                                    |
| 375.    | 24402 <i>Geopelia humeralis</i> (Bar-shouldered Dove)   |             |                   |                                    |
| 376.    | 25585 <i>Geopelia striata</i> (Zebra Dove)  |             |                   |                                    |
| 377.    | 24403 <i>Geopelia striata subsp. placida</i> (Peaceful Dove)                                  |             |                   |                                    |
| 378.    | 24404 <i>Geophaps plumifera</i> (Spinifex Pigeon)   |             |                   |                                    |
| 379.    | <i>Gerres filamentosus</i>  |             |                   |                                    |
| 380.    | <i>Gerres oyena</i>   |             |                   |                                    |
| 381.    | <i>Gerres sp.</i>   |             |                   |                                    |

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|---------|---|-------------|-------------------|------------------------------------|
| 382.    | <i>Gerres subfasciatus</i>  |             |                   |                                    |
| 383.    | <i>Gerridae</i> sp.   |             |                   |                                    |
| 384.    | 25531 <i>Gerygone levigaster</i> (Mangrove Gerygone)                                |             |                   |                                    |
| 385.    | 24276 <i>Gerygone tenebrosa</i> (Dusky Gerygone)                                    |             |                   |                                    |
| 386.    | <i>Gigadema bostocki</i>  |             |                   |                                    |
| 387.    | <i>Gomphonema parvulum</i> (Kütz.) Kütz.  |             |                   |                                    |
| 388.    | 24443 <i>Grallina cyanoleuca</i> (Magpie-lark)                                      |             |                   |                                    |
| 389.    | 24484 <i>Grus rubicunda</i> (Brolga)  |             |                   |                                    |
| 390.    | <i>Guineaxonopsis</i> sp. S1 (PSS)  |             |                   |                                    |
| 391.    | <i>Gymnocranius grandoculis</i>   |             |                   |                                    |
| 392.    | <i>Gymnothorax undulatus</i>  |             |                   |                                    |
| 393.    | 25627 <i>Haematopus fuliginosus</i> (Sooty Oystercatcher)                           |             |                   |                                    |
| 394.    | 24487 <i>Haematopus longirostris</i> (Pied Oystercatcher)                           |             |                   |                                    |
| 395.    | <i>Halacaridae</i> sp. 1 (PSS)  |             |                   |                                    |
| 396.    | 24293 <i>Haliaeetus leucogaster</i> (White-bellied Sea-Eagle)                       |             |                   |                                    |
| 397.    | 25541 <i>Haliastur indus</i> (Brahminy Kite)  |             |                   |                                    |
| 398.    | 24294 <i>Haliastur indus</i> subsp. <i>girrenera</i> (Brahminy Kite)                |             |                   |                                    |
| 399.    | 24295 <i>Haliastur sphenurus</i> (Whistling Kite)                                   |             |                   |                                    |
| 400.    | <i>Haliphus</i> sp.   |             |                   |                                    |
| 401.    | <i>Halophryne diemensis</i>   |             |                   |                                    |
| 402.    | <i>Halophryne ocellatus</i>   |             |                   |                                    |
| 403.    | 24297 <i>Hamirostra melanosternon</i> (Black-breasted Buzzard)                      |             |                   |                                    |
| 404.    | <i>Hantzschia amphioxys</i> (Ehr.) Grun.  |             |                   |                                    |
| 405.    | <i>Hebridae</i> sp.   |             |                   |                                    |
| 406.    | <i>Helluapterus niger</i>   |             |                   |                                    |
| 407.    | <i>Hemicordulia tau</i>   |             |                   |                                    |
| 408.    | <i>Hemicypris megalops</i>  |             |                   |                                    |
| 409.    | 25232 <i>Hemidactylus frenatus</i> (Asian House Gecko)                              | Y           |                   |                                    |
| 410.    | <i>Hemigaleus australiensis</i>   |             |                   |                                    |
| 411.    | <i>Hemigaleus</i> sp.   |             |                   |                                    |
| 412.    | <i>Hemiramphus robustus</i>   |             |                   |                                    |
| 413.    | <i>Herklotsichthys blackburni</i>   |             |                   |                                    |
| 414.    | <i>Herklotsichthys collettei</i>  |             |                   |                                    |
| 415.    | <i>Herklotsichthys collettei?</i>   |             |                   | Y                                  |
| 416.    | <i>Herklotsichthys koningsbergeri</i>   |             |                   |                                    |
| 417.    | <i>Herklotsichthys quadrimaculatus</i>  |             |                   | Y                                  |
| 418.    | 24961 <i>Heteronotia binoei</i> (Bynoe's Gecko)                                     |             |                   |                                    |
| 419.    | <i>Hexarthra mira</i>   |             |                   |                                    |
| 420.    | 47965 <i>Hieraaetus morphnoides</i> (Little Eagle)                                  |             |                   |                                    |
| 421.    | <i>Hilsa kelee?</i>   |             |                   | Y                                  |
| 422.    | 25734 <i>Himantopus himantopus</i> (Black-winged Stilt)                             |             |                   |                                    |
| 423.    | 24775 <i>Himantopus himantopus</i> subsp. <i>leucocephalus</i> (Black-winged Stilt) |             |                   |                                    |
| 424.    | <i>Hippocampus</i> sp.  |             |                   |                                    |
| 425.    | <i>Hippocampus tuberculatus</i>   |             |                   |                                    |
| 426.    | 24491 <i>Hirundo neoxena</i> (Welcome Swallow)                                      |             |                   |                                    |
| 427.    | <i>Hoggicosa snelli</i>   |             |                   |                                    |
| 428.    | <i>Holconia westralia</i>   |             |                   |                                    |
| 429.    | <i>Hydrachna</i> sp. 4/5 (PSW)  |             |                   |                                    |
| 430.    | <i>Hydraenidae</i> sp.  |             |                   |                                    |
| 431.    | <i>Hydrobiidae</i> sp.  |             |                   |                                    |
| 432.    | <i>Hydroglyphus grammopterus</i> (=trilineatus)                                     |             |                   |                                    |
| 433.    | <i>Hydroglyphus leai</i>  |             |                   |                                    |
| 434.    | <i>Hydrophilidae</i> sp.  |             |                   |                                    |
| 435.    | 44656 <i>Hydrophis major</i> (Olive-headed seasnake, greater seasnake)              |             |                   |                                    |
| 436.    | 42410 <i>Hydrophis ornatus</i> (Ornate Reef Seasnake, Sea Snake)                    |             |                   |                                    |
| 437.    | 43385 <i>Hydrophis stokesii</i> (Stoke's Seasnake, Sea Snake)                       |             |                   |                                    |
| 438.    | <i>Hydropsychidae</i> sp.   |             |                   |                                    |
| 439.    | <i>Hyphydrus</i> sp.  |             |                   |                                    |
| 440.    | <i>Hypopterus macropterus</i>   |             |                   |                                    |
| 441.    | <i>Ilyocypris 'spiculata'</i> (ms name) (SAP)                                       |             |                   |                                    |
| 442.    | <i>Ilyodromus</i> sp. PB  |             |                   |                                    |
| 443.    | <i>Indolpium</i> sp.  |             |                   |                                    |
| 444.    | <i>Inimicus sinensis</i>  |             |                   |                                    |
| 445.    | <i>Ischnura aurora aurora</i>   |             |                   |                                    |
| 446.    | <i>Isidorella egraria</i>   |             |                   |                                    |
| 447.    | <i>Isocypris williamsi</i> (ex <i>Ilyodromus</i> sp. 413)                           |             |                   |                                    |
| 448.    | <i>Isopedella tindalei</i>  |             |                   |                                    |
| 449.    | <i>Isostictidae</i> sp.   |             |                   |                                    |
| 450.    | <i>Istiblennius meleagris</i>   |             |                   |                                    |
| 451.    | <i>Keratella procurva</i>   |             |                   |                                    |



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|---------|--|-------------|-------------------|------------------------------------|
| 452.    | <i>Keratella tropica</i>   |             |                   |                                    |
| 453.    | <i>Laccophilus sharpi</i>  |             |                   |                                    |
| 454.    | <i>Lactoria cornuta</i>  |             |                   |                                    |
| 455.    | <i>Lactoria diaphana</i>   |             |                   |                                    |
| 456.    | 24367 <i>Lalage tricolor</i> (White-winged Triller)                          |             |                   |                                    |
| 457.    | <i>Lampona ampeinna</i>  |             |                   |                                    |
| 458.    | <i>Lamponina scutata</i>   |             |                   |                                    |
| 459.    | 25637 <i>Larus novaehollandiae</i> (Silver Gull)                             |             |                   |                                    |
| 460.    | <i>Latonopsis brehmi</i>   |             |                   |                                    |
| 461.    | <i>Lecane cf. pertica</i>  |             |                   | Y                                  |
| 462.    | <i>Lecane halsei</i>   |             |                   |                                    |
| 463.    | <i>Lecane n. sp. psw031</i> (like <i>signifera</i> but tall)                 |             |                   | Y                                  |
| 464.    | <i>Leiognathus decorus</i>   |             |                   |                                    |
| 465.    | <i>Leiognathus equulus</i>   |             |                   |                                    |
| 466.    | <i>Leiopotherapon unicolor</i>   |             |                   |                                    |
| 467.    | <i>Leptoceridae sp.</i>  |             |                   |                                    |
| 468.    | 25124 <i>Lerista baynesi</i>   |             |                   |                                    |
| 469.    | 25125 <i>Lerista bipes</i>   |             |                   |                                    |
| 470.    | 30928 <i>Lerista clara</i>   |             |                   |                                    |
| 471.    | 25133 <i>Lerista elegans</i>   |             |                   |                                    |
| 472.    | 25158 <i>Lerista onsloviana</i>  |             |                   |                                    |
| 473.    | 25176 <i>Lerista uniduo</i> (Spotted Broad-blazed Slider, skink)             |             |                   |                                    |
| 474.    | <i>Lethocerus distinctifemur</i>   |             |                   |                                    |
| 475.    | <i>Lethrinus sp.</i>   |             |                   |                                    |
| 476.    | 25005 <i>Lialis burtonis</i>   |             |                   |                                    |
| 477.    | <i>Libellulidae sp.</i>  |             |                   |                                    |
| 478.    | 25661 <i>Lichmera indistincta</i> (Brown Honeyeater)                         |             |                   |                                    |
| 479.    | 24582 <i>Lichmera indistincta subsp. indistincta</i> (Brown Honeyeater)      |             |                   |                                    |
| 480.    | <i>Limnesia sp. 4</i> (PSW)  |             |                   |                                    |
| 481.    | <i>Limnocytheridae n.gen. sp 419</i> (CB)                                    |             |                   |                                    |
| 482.    | <i>Liparetrus sp.</i>  |             |                   | Y                                  |
| 483.    | 25380 <i>Litoria caerulea</i> (Green Tree Frog)                              |             |                   |                                    |
| 484.    | 25392 <i>Litoria rubella</i> (Little Red Tree Frog)                          |             |                   |                                    |
| 485.    | <i>Liza melinoptera</i>  |             |                   |                                    |
| 486.    | <i>Liza sp.</i>  |             |                   |                                    |
| 487.    | <i>Liza subviridis</i>   |             |                   |                                    |
| 488.    | <i>Liza vaigiensis</i>   |             |                   |                                    |
| 489.    | <i>Lophiocharon trisignatus</i>  |             |                   |                                    |
| 490.    | <i>Lophoicthia isura</i>   |             |                   |                                    |
| 491.    | <i>Loxandrus micantior</i>   |             |                   |                                    |
| 492.    | 30933 <i>Lucasium stenodactylum</i>  |             |                   |                                    |
| 493.    | 30934 <i>Lucasium wombeyi</i>  |             |                   |                                    |
| 494.    | <i>Lutjanus argentimaculatus</i>   |             |                   |                                    |
| 495.    | <i>Lutjanus erythropterus</i>  |             |                   |                                    |
| 496.    | <i>Lutjanus fulviflamma</i>  |             |                   |                                    |
| 497.    | <i>Lutjanus malabaricus</i>  |             |                   |                                    |
| 498.    | <i>Lutjanus russellii</i>  |             |                   |                                    |
| 499.    | <i>Lychas sp. 2</i>  |             |                   |                                    |
| 500.    | <i>Lycidas sp. 1</i>   |             |                   |                                    |
| 501.    | <i>Lymnaeidae sp.</i>  |             |                   |                                    |
| 502.    | 25489 <i>Macropus robustus</i> (Euro, Biggada)                               |             |                   |                                    |
| 503.    | 24136 <i>Macropus rufus</i> (Red Kangaroo, Marlu)                            |             |                   |                                    |
| 504.    | <i>Macrothrix indistincta</i>  |             |                   |                                    |
| 505.    | 24326 <i>Malacorhynchus membranaceus</i> (Pink-eared Duck)                   |             |                   |                                    |
| 506.    | 25651 <i>Malurus lamberti</i> (Variegated Fairy-wren)                        |             |                   |                                    |
| 507.    | 25652 <i>Malurus leucopterus</i> (White-winged Fairy-wren)                   |             |                   |                                    |
| 508.    | 24549 <i>Malurus leucopterus subsp. leuconotus</i> (White-winged Fairy-wren) |             |                   |                                    |
| 509.    | 25654 <i>Malurus splendens</i> (Splendid Fairy-wren)                         |             |                   |                                    |
| 510.    | 24583 <i>Manorina flavigula</i> (Yellow-throated Miner)                      |             |                   |                                    |
| 511.    | <i>Masasteron gracilis</i>   |             |                   |                                    |
| 512.    | <i>Masasteron tealei</i>   |             |                   |                                    |
| 513.    | <i>Mastogloia smithii</i> Thwaites   |             |                   |                                    |
| 514.    | <i>Meedo houstoni</i>  |             |                   |                                    |
| 515.    | <i>Megacephala greyana</i>   |             |                   |                                    |
| 516.    | <i>Megalaspis cordyla</i>  |             |                   |                                    |
| 517.    | <i>Megalops cyprinoides</i>  |             |                   |                                    |
| 518.    | 47995 <i>Megalurus mathewsi</i> (Rufous Songlark)                            |             |                   |                                    |
| 519.    | <i>Megaporus sp.</i>   |             |                   |                                    |
| 520.    | <i>Melanotaenia australis</i>  |             |                   |                                    |
| 521.    | <i>Melitidae sp. 1</i> (PSS)   |             |                   |                                    |

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|---------|--|-------------|-------------------|------------------------------------|
| 522.    | 24736 <i>Melopsittacus undulatus</i> (Budgerigar)  |             |                   |                                    |
| 523.    | <i>Mene maculata</i>   |             |                   |                                    |
| 524.    | 25184 <i>Menetia greyii</i>  |             |                   |                                    |
| 525.    | 24598 <i>Merops ornatus</i> (Rainbow Bee-eater)  |             |                   |                                    |
| 526.    | <i>Mesocyclops brooksi</i>   |             |                   |                                    |
| 527.    | <i>Mesoveliidae</i> sp.  |             |                   |                                    |
| 528.    | <i>Microcarbo melanoleucos</i>   |             |                   |                                    |
| 529.    | <i>Microcyclops varicans</i>   |             |                   |                                    |
| 530.    | <i>Micronecta gracilis</i>   |             |                   |                                    |
| 531.    | <i>Micronecta</i> sp.  |             |                   |                                    |
| 532.    | 25542 <i>Milvus migrans</i> (Black Kite)   |             |                   |                                    |
| 533.    | 24298 <i>Milvus migrans</i> subsp. <i>affinis</i> (Black Kite)                                   |             |                   |                                    |
| 534.    | <i>Minasteron minusculum</i>   |             |                   |                                    |
| 535.    | 25545 <i>Mirafra javanica</i> (Horsfield's Bushlark, Singing Bushlark)                           |             |                   |                                    |
| 536.    | 24302 <i>Mirafra javanica</i> subsp. <i>horsfieldii</i> (Horsfield's Bushlark, Singing Bushlark) |             |                   |                                    |
| 537.    | <i>Mirafra javanica</i> subsp. <i>woodwardi</i>  |             |                   | Y                                  |
| 538.    | <i>Missulena rutraspina</i>  |             |                   |                                    |
| 539.    | <i>Moina</i> cf. <i>australiensis</i> (CB)   |             |                   |                                    |
| 540.    | <i>Moina micrura</i> s.l.  |             |                   |                                    |
| 541.    | 25495 <i>Morethia ruficauda</i>  |             |                   |                                    |
| 542.    | 25193 <i>Morethia ruficauda</i> subsp. <i>exquisita</i>  |             |                   |                                    |
| 543.    | 25194 <i>Morethia ruficauda</i> subsp. <i>ruficauda</i>  |             |                   |                                    |
| 544.    | <i>Mugil cephalus</i>  |             |                   |                                    |
| 545.    | <i>Muraenesox cinereus</i>   |             |                   |                                    |
| 546.    | 24223 <i>Mus musculus</i> (House Mouse)  | Y           |                   |                                    |
| 547.    | <i>Navicula cryptonella</i> Lange-Bertalot   |             |                   |                                    |
| 548.    | <i>Navicula molestiformis</i> Hust.  |             |                   |                                    |
| 549.    | <i>Nematalosa come</i>   |             |                   |                                    |
| 550.    | <i>Nematalosa erebi</i>  |             |                   |                                    |
| 551.    | <i>Nematalosa</i> sp.  |             |                   |                                    |
| 552.    | <i>Nematalosa vlaminghi</i>  |             |                   |                                    |
| 553.    | <i>Nematoda</i> sp. 7 (PSS)  |             |                   | Y                                  |
| 554.    | <i>Nematoda</i> sp. 8 (PSS)  |             |                   | Y                                  |
| 555.    | <i>Nematoda</i> sp. P6 (PSW)   |             |                   |                                    |
| 556.    | 25422 <i>Neobatrachus aquilonius</i> (Northern Burrowing Frog)                                   |             |                   |                                    |
| 557.    | 25424 <i>Neobatrachus fulvus</i> (Tawny Trilling Frog)   |             |                   |                                    |
| 558.    | 25685 <i>Neochmia ruficauda</i> (Star Finch)   |             |                   |                                    |
| 559.    | <i>Neopomacentrus filamentosus</i>   |             |                   |                                    |
| 560.    | <i>Neothrix armata</i>   |             |                   |                                    |
| 561.    | 25497 <i>Nephrurus levis</i>   |             |                   |                                    |
| 562.    | 24968 <i>Nephrurus levis</i> subsp. <i>occidentalis</i>  |             |                   |                                    |
| 563.    | 24969 <i>Nephrurus levis</i> subsp. <i>pilbarensis</i>   |             |                   |                                    |
| 564.    | 24972 <i>Nephrurus wheeleri</i> subsp. <i>cinctus</i>  |             |                   |                                    |
| 565.    | <i>Netuma thalassina</i>   |             |                   | Y                                  |
| 566.    | <i>Nilobezzia</i> sp. P2 (PSW)   |             |                   |                                    |
| 567.    | 24095 <i>Ningai timealeyi</i> (Pilbara Ningai)   |             |                   |                                    |
| 568.    | 25747 <i>Ninox connivens</i> (Barking Owl)   |             |                   |                                    |
| 569.    | <i>Nitzschia filiformis</i> (W. Sm.) Van Heurck  |             |                   |                                    |
| 570.    | <i>Nitzschia frustulum</i> (Kütz.) Grun.   |             |                   |                                    |
| 571.    | <i>Nitzschia palea</i> (Kütz.) W. Sm.  |             |                   |                                    |
| 572.    | <i>Nitzschia sigma</i> (Kütz.) W. Sm.  |             |                   |                                    |
| 573.    | <i>Nitzschia umbonata</i> (Ehr.) Lange-Bertalot  |             |                   |                                    |
| 574.    | No invertebrates   |             |                   |                                    |
| 575.    | 25430 <i>Notaden nichollsi</i> (Desert Spadefoot)  |             |                   |                                    |
| 576.    | <i>Notobathynella</i> sp.  |             |                   |                                    |
| 577.    | 24224 <i>Notomys alexis</i> (Spinifex Hopping-mouse)   |             |                   |                                    |
| 578.    | <i>Notonectidae</i> sp.  |             |                   |                                    |
| 579.    | <i>Notsodipus barlee</i>   |             |                   |                                    |
| 580.    | 25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)   |             |                   |                                    |
| 581.    | 24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)                                       |             |                   |                                    |
| 582.    | 24742 <i>Nymphicus hollandicus</i> (Cockatiel)   |             |                   |                                    |
| 583.    | 24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)  |             |                   |                                    |
| 584.    | <i>Oecetis</i> sp.   |             |                   |                                    |
| 585.    | <i>Oecetis</i> sp. Pilbara 5 (PSW)   |             |                   |                                    |
| 586.    | <i>Oligochaeta</i> sp.   |             |                   |                                    |
| 587.    | <i>Omobranchus punctatus</i>   |             |                   |                                    |
| 588.    | <i>Onthophagus margaretensis</i>   |             |                   |                                    |
| 589.    | <i>Onthophagus nevoissi</i>  |             |                   |                                    |
| 590.    | <i>Ophichthus cephalozona</i>  |             |                   |                                    |
| 591.    | 24618 <i>Oreoica gutturalis</i> (Crested Bellbird)   |             |                   |                                    |



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| 592.    | <i>Orthetrum caledonicum</i>   |             |                   |                                    |
| 593.    | 24085 <i>Oryctolagus cuniculus</i> (Rabbit)  | Y           |                   |                                    |
| 594.    | <i>Ostracoda</i> (unident.)  |             |                   |                                    |
| 595.    | <i>Ozestheria packardi</i>   |             |                   |                                    |
| 596.    | 24620 <i>Pachycephala lanioides</i> (White-breasted Whistler)                        |             |                   |                                    |
| 597.    | 24621 <i>Pachycephala melanura</i> subsp. <i>melanura</i> (Mangrove Golden Whistler) |             |                   |                                    |
| 598.    | 25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)                              |             |                   |                                    |
| 599.    | <i>Pantala flavescens</i>  |             |                   |                                    |
| 600.    | <i>Parachaeturichthys polynema</i>   |             |                   |                                    |
| 601.    | <i>Paracymus spenceri</i>  |             |                   |                                    |
| 602.    | <i>Paramecium</i> sp.  |             |                   |                                    |
| 603.    | <i>Paramelitidae</i> sp.   |             |                   |                                    |
| 604.    | <i>Paraplagusia bilineata</i>  |             |                   |                                    |
| 605.    | <i>Paraplotosus albilabris</i>   |             |                   |                                    |
| 606.    | <i>Parastenocarididae</i> sp.  |             |                   |                                    |
| 607.    | <i>Parastenocaris jane</i>   |             |                   |                                    |
| 608.    | <i>Parastromateus niger</i>  |             |                   |                                    |
| 609.    | 24627 <i>Pardalotus rubricatus</i> (Red-browed Pardalote)                            |             |                   |                                    |
| 610.    | 25682 <i>Pardalotus striatus</i> (Striated Pardalote)                                |             |                   |                                    |
| 611.    | 24642 <i>Passer montanus</i> (Eurasian Tree Sparrow)                                 | Y           |                   |                                    |
| 612.    | <i>Pelates octolineatus</i>  |             |                   |                                    |
| 613.    | 24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)                           |             |                   |                                    |
| 614.    | <i>Pellona ditchela</i>  |             |                   |                                    |
| 615.    | <i>Pentapodus vitta</i>  |             |                   |                                    |
| 616.    | <i>Periophthalmus argentilineatus</i>  |             |                   |                                    |
| 617.    | <i>Peristrominopus dolosus</i>   |             |                   |                                    |
| 618.    | <i>Pescecyclus</i> sp. 442=462=465=CB2 (salinarum in Morton)                         |             |                   |                                    |
| 619.    | 48060 <i>Petrochelidon ariel</i> (Fairy Martin)                                      |             |                   |                                    |
| 620.    | 48061 <i>Petrochelidon nigricans</i> (Tree Martin)                                   |             |                   |                                    |
| 621.    | 24659 <i>Petroica goodenovii</i> (Red-capped Robin)                                  |             |                   |                                    |
| 622.    | <i>Pezidae</i> sp.   |             |                   |                                    |
| 623.    | 25697 <i>Phalacrocorax carbo</i> (Great Cormorant)                                   |             |                   |                                    |
| 624.    | 25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)                      |             |                   |                                    |
| 625.    | 24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)                     |             |                   |                                    |
| 626.    | 25699 <i>Phalacrocorax varius</i> (Pied Cormorant)                                   |             |                   |                                    |
| 627.    | 24409 <i>Phaps chalcoptera</i> (Common Bronzewing)                                   |             |                   |                                    |
| 628.    | 24411 <i>Phaps histrionica</i> (Flock Bronzewing, Flock Pigeon)                      |             |                   |                                    |
| 629.    | <i>Phorticosomus gularis</i>   |             |                   |                                    |
| 630.    | <i>Phreodrilid</i> with dissimilar ventral chaetae                                   |             |                   |                                    |
| 631.    | <i>Phreodrilid</i> with similar ventral chaetae                                      |             |                   |                                    |
| 632.    | <i>Phreodrilus</i> n. sp. WA32 (PSS)   |             |                   |                                    |
| 633.    | <i>Pilbarus millsii</i>  |             |                   |                                    |
| 634.    | <i>Pinnularia borealis</i>   |             |                   |                                    |
| 635.    | <i>Pinnularia divergens</i> W. Sm.   |             |                   |                                    |
| 636.    | <i>Pinnularia subrostrata</i> (A. Cl.) Cl.-Euler                                     |             |                   |                                    |
| 637.    | <i>Pisodonophis cancrivorus</i>  |             |                   |                                    |
| 638.    | 24101 <i>Planigale ingrami</i> (Long-tailed Planigale)                               |             |                   |                                    |
| 639.    | <i>Planorbidae</i> sp.   |             |                   |                                    |
| 640.    | 24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)                             |             |                   |                                    |
| 641.    | 24842 <i>Platalea regia</i> (Royal Spoonbill)  |             |                   |                                    |
| 642.    | <i>Platax teira</i>  |             |                   |                                    |
| 643.    | <i>Platycephalus indicus</i>   |             |                   |                                    |
| 644.    | <i>Platycephalus</i> sp.   |             |                   |                                    |
| 645.    | 25721 <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)          |             |                   |                                    |
| 646.    | 24751 <i>Platycercus zonarius</i> subsp. <i>zonarius</i> (Port Lincoln Parrot)       |             |                   |                                    |
| 647.    | <i>Platycoelus melliei</i>   |             |                   |                                    |
| 648.    | <i>Plectorhinchus flavomaculatus</i>   |             |                   |                                    |
| 649.    | <i>Plectorhinchus gibbosus</i>   |             |                   |                                    |
| 650.    | <i>Plectorhinchus polytaenia</i>   |             |                   |                                    |
| 651.    | <i>Pleidae</i> sp.   |             |                   |                                    |
| 652.    | <i>Plotosus lineatus</i>   |             |                   |                                    |
| 653.    | 25703 <i>Podargus strigoides</i> (Tawny Frogmouth)                                   |             |                   |                                    |
| 654.    | 25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)                                     |             |                   |                                    |
| 655.    | 24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)                 |             |                   |                                    |
| 656.    | 24681 <i>Poliiocephalus poliocephalus</i> (Hoary-headed Grebe)                       |             |                   |                                    |
| 657.    | <i>Polyarthra dolichoptera</i>   |             |                   |                                    |
| 658.    | <i>Polydactylus multiradiatus</i>  |             |                   |                                    |
| 659.    | <i>Polydactylus plebius</i>  |             |                   |                                    |
| 660.    | <i>Polypedilum leei</i>  |             |                   |                                    |
| 661.    | <i>Pomadasyus argenteus</i>  |             |                   |                                    |

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| 662.    | <i>Pomadasys kaakan</i>   |             |                   |                                    |
| 663.    | <i>Pomatomus saltatrix</i>  |             |                   |                                    |
| 664.    | 25706 <i>Pomatostomus temporalis</i> (Grey-crowned Babbler)                         |             |                   |                                    |
| 665.    | 24684 <i>Pomatostomus temporalis</i> subsp. <i>rubeculus</i> (Grey-crowned Babbler) |             |                   |                                    |
| 666.    | 24769 <i>Porzana fluminea</i> (Australian Spotted Crane)                            |             |                   |                                    |
| 667.    | 25732 <i>Porzana pusilla</i> (Baillon's Crane)                                      |             |                   |                                    |
| 668.    | <i>Procladius paludicola</i>  |             |                   |                                    |
| 669.    | <i>Protonibea diacanthus</i>  |             |                   |                                    |
| 670.    | <i>Psammoperca waigiensis</i>   |             |                   |                                    |
| 671.    | <i>Psettodes erumei</i>   |             |                   |                                    |
| 672.    | 24105 <i>Pseudantechinus roryi</i> (Rory's Pseudantechinus)                         |             |                   |                                    |
| 673.    | 25261 <i>Pseudechis australis</i> (Mulga Snake)                                     |             |                   |                                    |
| 674.    | 24235 <i>Pseudomys desertor</i> (Desert Mouse)                                      |             |                   |                                    |
| 675.    | 24237 <i>Pseudomys hermannsburgensis</i> (Sandy Inland Mouse)                       |             |                   |                                    |
| 676.    | 42416 <i>Pseudonaja mengdeni</i> (Western Brown Snake)                              |             |                   |                                    |
| 677.    | 25263 <i>Pseudonaja modesta</i> (Ringed Brown Snake)                                |             |                   |                                    |
| 678.    | 25264 <i>Pseudonaja nuchalis</i> (Gwardar, Northern Brown Snake)                    |             |                   |                                    |
| 679.    | <i>Pseudorhombus argus</i>  |             |                   |                                    |
| 680.    | <i>Pseudorhombus arsius</i>   |             |                   |                                    |
| 681.    | 24390 <i>Psophodes occidentalis</i> (Western Wedgebill, Chiming Wedgebill)          |             |                   |                                    |
| 682.    | <i>Pterois antennata</i>  |             |                   |                                    |
| 683.    | <i>Pterois volitans</i>   |             |                   |                                    |
| 684.    | 24173 <i>Pteropus scapulatus</i> (Little Red Flying-fox)                            |             |                   |                                    |
| 685.    | 25009 <i>Pygopus nigriceps</i>  |             |                   |                                    |
| 686.    | 24278 <i>Pyrrholaemus brunneus</i> (Redthroat)                                      |             |                   |                                    |
| 687.    | <i>Rachycentron canadum</i>   |             |                   |                                    |
| 688.    | 24245 <i>Rattus rattus</i> (Black Rat)  | Y           |                   |                                    |
| 689.    | 24776 <i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)                      |             |                   |                                    |
| 690.    | <i>Rheotanytarsus juliae</i>  |             |                   |                                    |
| 691.    | 48096 <i>Rhipidura albiscapa</i> (Grey Fantail)                                     |             |                   |                                    |
| 692.    | 25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)                                  |             |                   |                                    |
| 693.    | 24457 <i>Rhipidura phasiana</i> (Mangrove Grey Fantail)                             |             |                   |                                    |
| 694.    | 24982 <i>Rhynchoedura ornata</i> (Western Beaked Gecko)                             |             |                   |                                    |
| 695.    | <i>Sardinella albella</i>   |             |                   | Y                                  |
| 696.    | <i>Sardinella gibbosa</i>   |             |                   |                                    |
| 697.    | <i>Sargocentron prasinum</i>  |             |                   |                                    |
| 698.    | <i>Sargocentron rubrum</i>  |             |                   |                                    |
| 699.    | <i>Saurida nebulosa</i>   |             |                   |                                    |
| 700.    | <i>Scolopendra laeta</i>  |             |                   |                                    |
| 701.    | <i>Scomberoides commersonianus</i>  |             |                   |                                    |
| 702.    | <i>Scomberoides lysan</i>   |             |                   |                                    |
| 703.    | <i>Scomberoides lysan?</i>  |             |                   | Y                                  |
| 704.    | <i>Scomberoides tol</i>   |             |                   |                                    |
| 705.    | <i>Scomberomorus commerson</i>  |             |                   |                                    |
| 706.    | <i>Scomberomorus queenslandicus</i>   |             |                   |                                    |
| 707.    | <i>Scomberomorus semifasciatus</i>  |             |                   |                                    |
| 708.    | <i>Selaroides leptolepis</i>  |             |                   |                                    |
| 709.    | <i>Selenotoca multifasciata</i>   |             |                   |                                    |
| 710.    | <i>Siganus fuscescens</i>   |             |                   |                                    |
| 711.    | <i>Sillago analis</i>   |             |                   |                                    |
| 712.    | <i>Sillago burrus</i>   |             |                   |                                    |
| 713.    | <i>Sillago ingenua?</i>   |             |                   | Y                                  |
| 714.    | <i>Sillago lutea</i>  |             |                   |                                    |
| 715.    | <i>Sillago sihama</i>   |             |                   |                                    |
| 716.    | 25305 <i>Simoselaps anomalus</i> (Desert Banded Snake)                              |             |                   |                                    |
| 717.    | 30948 <i>Smicromis brevirostris</i> (Weebill)                                       |             |                   |                                    |
| 718.    | 24116 <i>Sminthopsis macroura</i> (Stripe-faced Dunnart)                            |             |                   |                                    |
| 719.    | 24120 <i>Sminthopsis youngsoni</i> (Lesser Hairy-footed Dunnart)                    |             |                   |                                    |
| 720.    | <i>Sphyrna barracuda</i>  |             |                   |                                    |
| 721.    | <i>Stauroneis anceps</i> Ehr.   |             |                   |                                    |
| 722.    | <i>Stausora construens</i> Ehr.   |             |                   |                                    |
| 723.    | 24521 <i>Sterna bengalensis</i> (Lesser Crested Tern)                               |             |                   |                                    |
| 724.    | 24522 <i>Sterna bergii</i> (Crested Tern)   |             |                   |                                    |
| 725.    | 25643 <i>Sterna hybrida</i> (Whiskered Tern)  |             |                   |                                    |
| 726.    | <i>Sternopriscus</i> sp.  |             |                   |                                    |
| 727.    | 48594 <i>Sternula nereis</i> (Fairy Tern)   |             |                   |                                    |
| 728.    | 24482 <i>Stiltia isabella</i> (Australian Pratincole)                               |             |                   |                                    |
| 729.    | 25656 <i>Stipiturus ruficeps</i> (Rufous-crowned Emu-wren)                          |             |                   |                                    |
| 730.    | <i>Stolephorus carpentariae</i>   |             |                   |                                    |
| 731.    | <i>Stolephorus commersonii</i>  |             |                   |                                    |



| Name ID | Species Name   | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|--|-------------|-------------------|------------------------------------|
| 732.    | <i>Strongylura strongylura</i>   |             |                   |                                    |
| 733.    | 24927 <i>Strophurus elderi</i>   |             |                   |                                    |
| 734.    | 24932 <i>Strophurus jeanae</i>   |             |                   |                                    |
| 735.    | 24942 <i>Strophurus spinigerus</i> subsp. <i>spinigerus</i>                          |             |                   |                                    |
| 736.    | 24946 <i>Strophurus strophurus</i>   |             |                   |                                    |
| 737.    | <i>Stygonitocrella bispinosa</i>   |             |                   |                                    |
| 738.    | <i>Supunna picta</i>   |             |                   |                                    |
| 739.    | 25269 <i>Suta fasciata</i> (Rosen's Snake)   |             |                   |                                    |
| 740.    | 25307 <i>Suta punctata</i> (Spotted Snake)   |             |                   |                                    |
| 741.    | <i>Synanceia horrida</i>   |             |                   |                                    |
| 742.    | <i>Tabanidae</i> sp.   |             |                   |                                    |
| 743.    | 25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)  |             |                   |                                    |
| 744.    | 24207 <i>Tachyglossus aculeatus</i> (Short-beaked Echidna)                           |             |                   |                                    |
| 745.    | 30870 <i>Taeniopygia guttata</i> (Zebra Finch)                                       |             |                   |                                    |
| 746.    | <i>Tanypodinae</i> sp.   |             |                   |                                    |
| 747.    | <i>Tasmanocoenis arcuata</i>   |             |                   |                                    |
| 748.    | <i>Tasmanocoenis</i> sp. E (PSW)   |             |                   |                                    |
| 749.    | <i>Tathicarpus butleri</i>   |             |                   |                                    |
| 750.    | <i>Terapon jarbua</i>  |             |                   |                                    |
| 751.    | <i>Terapon puta</i>  |             |                   |                                    |
| 752.    | <i>Terapon thaeraps</i>  |             |                   | Y                                  |
| 753.    | <i>Terapon theraps</i>   |             |                   |                                    |
| 754.    | <i>Testudinella</i> cf <i>trilobata</i> (=sp P3 PSW)                                 |             |                   |                                    |
| 755.    | <i>Testudinella patina</i>   |             |                   |                                    |
| 756.    | <i>Thalasseus bengalensis</i>  |             |                   |                                    |
| 757.    | 24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)                            |             |                   |                                    |
| 758.    | <i>Thyssa mystax</i> ?   |             |                   |                                    |
| 759.    | <i>Thyssa scratchleyi</i> ?  |             |                   |                                    |
| 760.    | <i>Thyssa setirostris</i>  |             |                   |                                    |
| 761.    | 25202 <i>Tiliqua multifasciata</i> (Central Blue-tongue)                             |             |                   |                                    |
| 762.    | 25548 <i>Todiramphus chloris</i> (Collared Kingfisher)                               |             |                   |                                    |
| 763.    | 24306 <i>Todiramphus chloris</i> subsp. <i>pilbara</i> (Pilbara Collared Kingfisher) |             |                   |                                    |
| 764.    | 42351 <i>Todiramphus pyrrhopygius</i> (Red-backed Kingfisher)                        |             |                   |                                    |
| 765.    | 25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)                                 |             |                   |                                    |
| 766.    | <i>Trachinotus baillonii</i>   |             |                   |                                    |
| 767.    | <i>Triacanthus biaculeatus</i>   |             |                   |                                    |
| 768.    | 48141 <i>Tribonyx ventralis</i> (Black-tailed Native-hen)                            |             |                   |                                    |
| 769.    | <i>Trichocarenum cylindricum</i>   |             |                   |                                    |
| 770.    | <i>Trichocerca</i> cf. <i>tigris</i>   |             |                   | Y                                  |
| 771.    | <i>Trichocerca similis</i>   |             |                   |                                    |
| 772.    | <i>Trichocerca tigris</i>  |             |                   |                                    |
| 773.    | <i>Trichocyclus nigropunctatus</i>   |             |                   |                                    |
| 774.    | <i>Trichocyclus warianga</i>   |             |                   |                                    |
| 775.    | <i>Triops australiensis australiensis</i>  |             |                   |                                    |
| 776.    | <i>Triplectides australis</i>  |             |                   |                                    |
| 777.    | <i>Turbellaria</i> sp.   |             |                   |                                    |
| 778.    | 24848 <i>Turnix pyrrhorothonax</i> (Red-chested Button-quail)                        |             |                   |                                    |
| 779.    | 24851 <i>Turnix velox</i> (Little Button-quail)                                      |             |                   |                                    |
| 780.    | 30954 <i>Tursiops aduncus</i> (Indo-Pacific Bottlenose Dolphin)                      |             |                   |                                    |
| 781.    | 25762 <i>Tyto alba</i> (Barn Owl)  |             |                   |                                    |
| 782.    | <i>Urodacus varians</i>  |             |                   |                                    |
| 783.    | 25577 <i>Vanellus miles</i> (Masked Lapwing)   |             |                   |                                    |
| 784.    | 24386 <i>Vanellus tricolor</i> (Banded Lapwing)                                      |             |                   |                                    |
| 785.    | 25209 <i>Varanus acanthurus</i> (Spiny-tailed Monitor)                               |             |                   |                                    |
| 786.    | 25210 <i>Varanus breviceauda</i> (Short-tailed Pygmy Monitor)                        |             |                   |                                    |
| 787.    | 30825 <i>Varanus bushi</i> (Pilbara Mulga Monitor)                                   |             |                   |                                    |
| 788.    | 25211 <i>Varanus caudolineatus</i>   |             |                   |                                    |
| 789.    | 25212 <i>Varanus eremius</i> (Pygmy Desert Monitor)                                  |             |                   |                                    |
| 790.    | 25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)                              |             |                   |                                    |
| 791.    | 25524 <i>Varanus panoptes</i> (Yellow-spotted Monitor)                               |             |                   |                                    |
| 792.    | 25223 <i>Varanus panoptes</i> subsp. <i>rubidus</i>                                  |             |                   |                                    |
| 793.    | 25526 <i>Varanus tristis</i> (Racehorse Monitor)                                     |             |                   |                                    |
| 794.    | <i>Veliidae</i> sp.  |             |                   |                                    |
| 795.    | 24040 <i>Vulpes vulpes</i> (Red Fox)   | Y           |                   |                                    |
| 796.    | <i>Wyndura kennedy</i>   |             |                   |                                    |
| 797.    | <i>Xanthagrion erythroneurum</i>   |             |                   |                                    |
| 798.    | <i>Xyrichtys</i> sp.   |             |                   |                                    |
| 799.    | <i>Yongeichthys nebulosus</i>  |             |                   |                                    |
| 800.    | <i>Zabidius novemaculeatus</i>   |             |                   |                                    |
| 801.    | 25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)                |             |                   |                                    |

| Name ID | Species Name                                     | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|--|-------------|-------------------|------------------------------------|
| 802.    | 24857 <i>Zosterops luteus</i> (Yellow White-eye) |             |                   |                                    |

**Conservation Codes**

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

<sup>1</sup> For NatureMap's purposes, species flagged as endemic are those whose records are wholly 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.



# NatureMap Fauna Species Report

Created By Colleen McDonald on 02/06/2020

**Kingdom** Animalia  
**Current Names Only** Yes  
**Core Datasets Only** Yes  
**Method** 'By Line'  
**Vertices** 21° 54' 02" S, 115° 39' 16" E 21° 57' 51" S, 115° 57' 15" E 22° 04' 02" S, 116° 11' 05" E  
**Group By** Conservation Status

| Conservation Status              | Species    | Records     |
|----------------------------------|------------|-------------|
| Non-conservation taxon           | 461        | 2322        |
| Other specially protected fauna  | 1          | 1           |
| Priority 4                       | 2          | 17          |
| Rare or likely to become extinct | 5          | 244         |
| <b>TOTAL</b>                     | <b>469</b> | <b>2584</b> |

| Name ID                                 | Species Name   | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---|--|-------------|-------------------|------------------------------------|
| <b>Rare or likely to become extinct</b> |  |             |                   |                                    |
| 1.                                      | 24093 <i>Dasyurus hallucatus</i> (Northern Quoll)  |             | T                 |                                    |
| 2.                                      | 25238 <i>Liasis olivaceus</i> subsp. <i>barroni</i> (Pilbara Olive Python)                           |             | T                 |                                    |
| 3.                                      | 24180 <i>Macroderma gigas</i> (Ghost Bat)  |             | T                 |                                    |
| 4.                                      | 48095 <i>Rhinonictis aurantia</i> (Pilbara) (Pilbara leaf-nosed bat)                                 |             | T                 |                                    |
| 5.                                      | 24157 <i>Trichosurus vulpecula</i> subsp. <i>arnhemensis</i> (northern brushtail possum (Kimberley)) |             | T                 |                                    |
| <b>Other specially protected fauna</b>  |  |             |                   |                                    |
| 6.                                      | 25624 <i>Falco peregrinus</i> (Peregrine Falcon)   |             | S                 |                                    |
| <b>Priority 4</b>                       |  |             |                   |                                    |
| 7.                                      | 24233 <i>Pseudomys chapmani</i> (Western Pebble-mound Mouse, Ngadji)                                 |             | P4                |                                    |
| 8.                                      | 43368 <i>Rhinonictis aurantia</i> (Orange Leaf-nosed bat)  |             | P4                |                                    |
| <b>Non-conservation taxon</b>           |  |             |                   |                                    |
| 9.                                      | <i>Abnitocrella</i> sp. 3 (PSS)  |             |                   |                                    |
| 10.                                     | 24559 <i>Acanthagenys rufogularis</i> (Spiny-cheeked Honeyeater)                                     |             |                   |                                    |
| 11.                                     | 24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)                           |             |                   |                                    |
| 12.                                     | <i>Acanthophis</i> sp.   |             |                   |                                    |
| 13.                                     | 25332 <i>Acanthophis wellsi</i> (Pilbara Death Adder)  |             |                   |                                    |
| 14.                                     | <i>Acariformes</i> sp.   |             |                   |                                    |
| 15.                                     | 25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)  |             |                   |                                    |
| 16.                                     | 25536 <i>Accipiter fasciatus</i> (Brown Goshawk)   |             |                   |                                    |
| 17.                                     | <i>Achnanthes exigua</i> Grun.   |             |                   |                                    |
| 18.                                     | <i>Achnanthes exilis</i> Kütz.   |             |                   |                                    |
| 19.                                     | <i>Achnanthidium minutissima</i> (Kütz.) Czarnecki   |             |                   |                                    |
| 20.                                     | <i>Achnanthidium minutissima</i> var. <i>affinis</i> (grun.) <i>lange-bertalot</i>                   |             |                   |                                    |
| 21.                                     | 25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)  |             |                   |                                    |
| 22.                                     | 25544 <i>Aegotheles cristatus</i> (Australian Owlet-nightjar)  |             |                   |                                    |
| 23.                                     | <i>Aeolosoma</i> sp. 1 (PSS)   |             |                   |                                    |
| 24.                                     | <i>Allonais pectinata</i>  |             |                   |                                    |
| 25.                                     | <i>Alluaudomyia</i> sp.  |             |                   |                                    |
| 26.                                     | <i>Alona rigidicaudis</i>  |             |                   |                                    |
| 27.                                     | 30833 <i>Amphibolurus longirostris</i> (Long-nosed Dragon)   |             |                   |                                    |
| 28.                                     | 25647 <i>Amytornis striatus</i> (Striated Grasswren)   |             |                   |                                    |
| 29.                                     | 24312 <i>Anas gracilis</i> (Grey Teal)   |             |                   |                                    |
| 30.                                     | 24316 <i>Anas superciliosa</i> (Pacific Black Duck)  |             |                   |                                    |
| 31.                                     | <i>Anax papuensis</i>  |             |                   |                                    |
| 32.                                     | <i>Ancylidae</i> sp.   |             |                   |                                    |
| 33.                                     | 47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)   |             |                   |                                    |
| 34.                                     | <i>Anomoeoneis styriaca</i> (Grun.) Hust.  |             |                   |                                    |
| 35.                                     | <i>Anopheles annulipes</i> s.l.  |             |                   |                                    |
| 36.                                     | 25318 <i>Antaresia perthensis</i> (Pygmy Python)   |             |                   |                                    |
| 37.                                     | 25448 <i>Antaresia stimsoni</i> (Stimson's Python)   |             |                   |                                    |
| 38.                                     | 25670 <i>Anthus australis</i> (Australian Pipit)   |             |                   |                                    |

| Name ID | Species Name   | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|--|-------------|-------------------|------------------------------------|
| 39.     | <i>Antichiropus</i> sp.  |             |                   |                                    |
| 40.     | <i>Antiporus bakewelli</i>   |             |                   |                                    |
| 41.     | 24285 <i>Aquila audax</i> (Wedge-tailed Eagle)   |             |                   |                                    |
| 42.     | <i>Arcella</i> sp.   |             |                   |                                    |
| 43.     | 41324 <i>Ardea modesta</i> (great egret, white egret)                                  |             |                   |                                    |
| 44.     | 24341 <i>Ardea pacifica</i> (White-necked Heron)                                       |             |                   |                                    |
| 45.     | 24610 <i>Ardeotis australis</i> (Australian Bustard)                                   |             |                   |                                    |
| 46.     | <i>Argiocnemis rubescens</i>   |             |                   |                                    |
| 47.     | <i>Armatalona macrocopa</i>  |             |                   |                                    |
| 48.     | <i>Arrenurus</i> ( <i>Arrenurus</i> ) <i>ensifer</i>                                   |             |                   |                                    |
| 49.     | <i>Arrenurus</i> ( <i>Arrenurus</i> ) <i>liliaceus</i>                                 |             |                   |                                    |
| 50.     | <i>Arrenurus</i> ( <i>Micruracarus</i> ) <i>purpureus</i>                              |             |                   |                                    |
| 51.     | 25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)                                |             |                   |                                    |
| 52.     | 25567 <i>Artamus leucorhynchus</i> (White-breasted Woodswallow)                        |             |                   |                                    |
| 53.     | 24355 <i>Artamus minor</i> (Little Woodswallow)  |             |                   |                                    |
| 54.     | 24356 <i>Artamus personatus</i> (Masked Woodswallow)                                   |             |                   |                                    |
| 55.     | <i>Asadipus yundamindra</i>  |             |                   |                                    |
| 56.     | 25320 <i>Aspidites melanocephalus</i> (Black-headed Python)                            |             |                   |                                    |
| 57.     | <i>Australiobates queenslandensis</i>  |             |                   |                                    |
| 58.     | <i>Australobolbus pseudobscurius</i>   |             |                   |                                    |
| 59.     | <i>Austroagrion pindrina</i> / <i>Ischnura heterosticta</i>                            |             |                   |                                    |
| 60.     | <i>Austroepigomphus</i> ( <i>Xerogomphus</i> ) <i>gordoni</i>                          |             |                   |                                    |
| 61.     | <i>Austropeplea lessoni</i>  |             |                   |                                    |
| 62.     | <i>Axonopsella nr truza</i> (PSW)  |             |                   |                                    |
| 63.     | <i>Axonopsella</i> sp. P2 (PSW)  |             |                   |                                    |
| 64.     | <i>Baetidae</i> sp.  |             |                   |                                    |
| 65.     | <i>Barnardius zonarius</i>   |             |                   |                                    |
| 66.     | <i>Bdelloidea</i> sp. 2:2  |             |                   |                                    |
| 67.     | <i>Bolboleaus truncatus</i>  |             |                   |                                    |
| 68.     | <i>Boongurrus occidentalis</i>   |             |                   |                                    |
| 69.     | 24251 <i>Bos taurus</i> (European Cattle)  | Y           |                   |                                    |
| 70.     | 25715 <i>Cacatua roseicapilla</i> (Galah)  |             |                   |                                    |
| 71.     | 25716 <i>Cacatua sanguinea</i> (Little Corella)  |             |                   |                                    |
| 72.     | 42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)                                       |             |                   |                                    |
| 73.     | <i>Caenidae</i> sp.  |             |                   |                                    |
| 74.     | <i>Calanoidea</i> sp.  |             |                   |                                    |
| 75.     | <i>Caloneis silicula</i> (Ehr.) Cl.  |             |                   |                                    |
| 76.     | <i>Carenum pulchrum</i>  |             |                   |                                    |
| 77.     | <i>Carenum venustum</i>  |             |                   |                                    |
| 78.     | 25015 <i>Carlia munda</i> (Shaded-litter Rainbow Skink)                                |             |                   |                                    |
| 79.     | <i>Cavisternum clavatum</i>  |             |                   |                                    |
| 80.     | 25600 <i>Centropus phasianinus</i> (Pheasant Coucal)                                   |             |                   |                                    |
| 81.     | <i>Ceratopogonidae</i> sp.   |             |                   |                                    |
| 82.     | 24181 <i>Chaerephon jobensis</i> (Greater Northern Freetail-bat, Northern Mastiff Bat) |             |                   |                                    |
| 83.     | <i>Chaetarthria nigerrimus</i>   |             |                   |                                    |
| 84.     | 24186 <i>Chalinolobus gouldii</i> (Gould's Wattled Bat)                                |             |                   |                                    |
| 85.     | <i>Chaoboridae</i> sp.   |             |                   |                                    |
| 86.     | <i>Chironominae</i> sp.  |             |                   |                                    |
| 87.     | <i>Chironomus aff. alternans</i> (V24) (CB)  |             |                   |                                    |
| 88.     | <i>Chlaenius australis</i>   |             |                   |                                    |
| 89.     | 24431 <i>Chrysococcyx basalus</i> (Horsfield's Bronze Cuckoo)                          |             |                   |                                    |
| 90.     | 24289 <i>Circus assimilis</i> (Spotted Harrier)  |             |                   |                                    |
| 91.     | <i>Cloeon</i> sp.  |             |                   |                                    |
| 92.     | <i>Coelopynia pruinosa</i>   |             |                   |                                    |
| 93.     | 25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)                              |             |                   |                                    |
| 94.     | <i>Conochilus natans</i>   |             |                   |                                    |
| 95.     | 25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)                      |             |                   |                                    |
| 96.     | <i>Corixidae</i> sp.   |             |                   |                                    |
| 97.     | 24416 <i>Corvus bennetti</i> (Little Crow)   |             |                   |                                    |
| 98.     | 25593 <i>Corvus orru</i> (Torresian Crow)  |             |                   |                                    |
| 99.     | 25701 <i>Coturnix ypsilophora</i> (Brown Quail)  |             |                   |                                    |
| 100.    | 24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)                                 |             |                   |                                    |
| 101.    | 25595 <i>Cracticus tibicen</i> (Australian Magpie)                                     |             |                   |                                    |
| 102.    | 25596 <i>Cracticus torquatus</i> (Grey Butcherbird)                                    |             |                   |                                    |
| 103.    | 30892 <i>Cryptoblepharus ustulatus</i>   |             |                   |                                    |
| 104.    | <i>Cryptochironomus griseidorsum</i>   |             |                   |                                    |
| 105.    | <i>Cryptodus caviceps</i>  |             |                   |                                    |
| 106.    | 25458 <i>Ctenophorus caudicinctus</i> (Ring-tailed Dragon)                             |             |                   |                                    |
| 107.    | 24865 <i>Ctenophorus caudicinctus</i> subsp. <i>caudicinctus</i> (Ring-tailed Dragon)  |             |                   |                                    |
| 108.    | 25459 <i>Ctenophorus isolepis</i> (Crested Dragon, Military Dragon)                    |             |                   |                                    |

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|---------|--|-------------|-------------------|------------------------------------|
| 109.    | 24876 <i>Ctenophorus isolepis</i> subsp. <i>isolepis</i> (Crested Dragon, Military Dragon) |             |                   |                                    |
| 110.    | 24882 <i>Ctenophorus nuchalis</i> (Central Netted Dragon)                                  |             |                   |                                    |
| 111.    | 24886 <i>Ctenophorus reticulatus</i> (Western Netted Dragon)                               |             |                   |                                    |
| 112.    | 25036 <i>Ctenotus duricola</i>   |             |                   |                                    |
| 113.    | 25462 <i>Ctenotus grandis</i>  |             |                   |                                    |
| 114.    | 25043 <i>Ctenotus grandis</i> subsp. <i>titan</i>  |             |                   |                                    |
| 115.    | 25044 <i>Ctenotus hanloni</i>  |             |                   |                                    |
| 116.    | 25045 <i>Ctenotus helenae</i>  |             |                   |                                    |
| 117.    | 25463 <i>Ctenotus pantherinus</i> (Leopard Ctenotus)                                       |             |                   |                                    |
| 118.    | 25064 <i>Ctenotus pantherinus</i> subsp. <i>ocellifer</i> (Leopard Ctenotus)               |             |                   |                                    |
| 119.    | 25065 <i>Ctenotus pantherinus</i> subsp. <i>pantherinus</i> (Leopard Ctenotus)             |             |                   |                                    |
| 120.    | 25072 <i>Ctenotus rubicundus</i>   |             |                   |                                    |
| 121.    | 25071 <i>Ctenotus rutilans</i>   |             |                   |                                    |
| 122.    | 25073 <i>Ctenotus saxatilis</i> (Rock Ctenotus)  |             |                   |                                    |
| 123.    | <i>Culicidae</i> sp.   |             |                   |                                    |
| 124.    | <i>Cupelopagis vorax</i>   |             |                   |                                    |
| 125.    | <i>Cybister tripunctatus</i>   |             |                   |                                    |
| 126.    | 25466 <i>Cyclodomorphus melanops</i> (Slender Blue-tongue)                                 |             |                   |                                    |
| 127.    | 25090 <i>Cyclodomorphus melanops</i> subsp. <i>melanops</i> (Slender Blue-tongue)          |             |                   |                                    |
| 128.    | 25375 <i>Cyclorana maini</i> (Sheep Frog)  |             |                   |                                    |
| 129.    | <i>Cyrtella menghiniana</i> Kütz.  |             |                   |                                    |
| 130.    | <i>Cymbella affinis</i> Kütz.  |             |                   |                                    |
| 131.    | <i>Cymbella cistula</i> (Ehr.) Kirchner  |             |                   |                                    |
| 132.    | <i>Cymbella cymbiformis</i> Ag.  |             |                   |                                    |
| 133.    | <i>Cymbella delicatula</i> Kütz.   |             |                   |                                    |
| 134.    | <i>Cymbella helvetica</i> Kütz.  |             |                   | Y                                  |
| 135.    | <i>Cymbella microcephala</i> Grun.   |             |                   |                                    |
| 136.    | <i>Cymbella silesiaca</i> Bleisch  |             |                   |                                    |
| 137.    | <i>Cypretta seurati</i>  |             |                   |                                    |
| 138.    | 25547 <i>Dacelo leachii</i> (Blue-winged Kookaburra)                                       |             |                   |                                    |
| 139.    | <i>Dasyheleinae</i> sp. P1 (PSW)   |             |                   |                                    |
| 140.    | 24091 <i>Dasykaluta rosamondae</i> (Little Red Kaluta)                                     |             |                   |                                    |
| 141.    | 25000 <i>Delma haroldi</i>   |             |                   |                                    |
| 142.    | 25001 <i>Delma nasuta</i>  |             |                   |                                    |
| 143.    | 25002 <i>Delma pax</i>   |             |                   |                                    |
| 144.    | 25004 <i>Delma tincta</i>  |             |                   |                                    |
| 145.    | 25468 <i>Demansia psammophis</i> (Yellow-faced Whipsnake)                                  |             |                   |                                    |
| 146.    | 25297 <i>Demansia rufescens</i> (Rufous Whipsnake)   |             |                   |                                    |
| 147.    | <i>Dero nivea</i>  |             |                   |                                    |
| 148.    | <i>Diacyclops humphreysi humphreysi</i>  |             |                   |                                    |
| 149.    | <i>Diacyclops sobeprolatus</i>   |             |                   |                                    |
| 150.    | 25607 <i>Dicaeum hirundinaceum</i> (Mistletoebird)   |             |                   |                                    |
| 151.    | <i>Dicrotendipes jobetus</i>   |             |                   |                                    |
| 152.    | <i>Diffugia</i> sp. P1   |             |                   |                                    |
| 153.    | <i>Diplacodes haematodes</i>   |             |                   |                                    |
| 154.    | 24926 <i>Diplodactylus conspicillatus</i> (Fat-tailed Gecko)                               |             |                   |                                    |
| 155.    | 24944 <i>Diplodactylus savagei</i> (Southern Pilbara Beak-faced Gecko)                     |             |                   |                                    |
| 156.    | <i>Diploneis pseudovalis</i> Hust.   |             |                   |                                    |
| 157.    | 42401 <i>Diporiphora paraconvergens</i> (Grey-striped Western Desert Dragon)               |             |                   |                                    |
| 158.    | 24899 <i>Diporiphora valens</i> (Southern Pilbara Tree Dragon)                             |             |                   |                                    |
| 159.    | <i>Dolichopodidae</i> sp.  |             |                   |                                    |
| 160.    | 24470 <i>Dromaius novaehollandiae</i> (Emu)  |             |                   |                                    |
| 161.    | <i>Dunhevedia crassa</i>   |             |                   |                                    |
| 162.    | <i>Dytiscidae</i> sp.  |             |                   |                                    |
| 163.    | <i>Ecnomidae</i> sp.   |             |                   |                                    |
| 164.    | <i>Ecnomus pilbarensis</i>   |             |                   |                                    |
| 165.    | 25094 <i>Egernia formosa</i>   |             |                   |                                    |
| 166.    | <i>Egretta novaehollandiae</i>   |             |                   |                                    |
| 167.    | <i>Elaphoidella</i> sp.  |             |                   |                                    |
| 168.    | 47937 <i>Elseomyia melanops</i> (Black-fronted Dotterel)                                   |             |                   |                                    |
| 169.    | 24631 <i>Emblema pictum</i> (Painted Finch)  |             |                   |                                    |
| 170.    | <i>Encyonema minutum</i> (Hilse ex Rabh.) Mann   |             |                   |                                    |
| 171.    | <i>Eodiaptomus lumholzi</i>  |             |                   |                                    |
| 172.    | <i>Eolophus roseicapillus</i>  |             |                   |                                    |
| 173.    | <i>Ephemeroporus barroisi</i> s.l.   |             |                   |                                    |
| 174.    | <i>Ephydriidae</i> sp.   |             |                   |                                    |
| 175.    | <i>Epithemia smithii</i> Carruthers  |             |                   |                                    |
| 176.    | 24570 <i>Epthianura tricolor</i> (Crimson Chat)  |             |                   |                                    |
| 177.    | 42404 <i>Eremiascincus isolepis</i>  |             |                   |                                    |
| 178.    | 43381 <i>Eremiascincus pallidus</i> (Western Narrow-banded Skink, Narrow-banded Sand)      |             |                   |                                    |



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|---------|---|-------------|-------------------|------------------------------------|
|         | <i>Swimmer</i>  |             |                   |                                    |
| 179.    | 24837 <i>Eremiornis carteri</i> (Spinifex-bird)                         |             |                   |                                    |
| 180.    | <i>Euchlanis dilatata</i>   |             |                   |                                    |
| 181.    | <i>Euchlanis oropha</i>   |             |                   |                                    |
| 182.    | <i>Eucyclops australiensis</i>  |             |                   |                                    |
| 183.    | <i>Euglypha</i> sp.   |             |                   |                                    |
| 184.    | <i>Eunotia bilunaris</i> (Ehr.) Mills.                                  |             |                   |                                    |
| 185.    | 24368 <i>Eurostopodus argus</i> (Spotted Nightjar)                      |             |                   |                                    |
| 186.    | <i>Eurysticta coolawanyah</i>   |             |                   |                                    |
| 187.    | 25621 <i>Falco berigora</i> (Brown Falcon)                              |             |                   |                                    |
| 188.    | 25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)    |             |                   |                                    |
| 189.    | 24041 <i>Felis catus</i> (Cat)  | Y           |                   |                                    |
| 190.    | <i>Fragilaria capucina</i> Desm.  |             |                   |                                    |
| 191.    | <i>Fragilaria tenera</i> (W. Sm.) Lange-Bertalot                        |             |                   |                                    |
| 192.    | <i>Fragilaria ulna</i> (Nitz.) Lange Bertalot                           |             |                   |                                    |
| 193.    | 25301 <i>Furina ornata</i> (Moon Snake)                                 |             |                   |                                    |
| 194.    | 42314 <i>Gavicalis virescens</i> (Singing Honeyeater)                   |             |                   |                                    |
| 195.    | 24958 <i>Gehyra punctata</i>  |             |                   |                                    |
| 196.    | 24959 <i>Gehyra variegata</i>   |             |                   |                                    |
| 197.    | 24401 <i>Geopelia cuneata</i> (Diamond Dove)                            |             |                   |                                    |
| 198.    | 25585 <i>Geopelia striata</i> (Zebra Dove)                              |             |                   |                                    |
| 199.    | 24403 <i>Geopelia striata</i> subsp. <i>placida</i> (Peaceful Dove)     |             |                   |                                    |
| 200.    | 24404 <i>Geophaps plumifera</i> (Spinifex Pigeon)                       |             |                   |                                    |
| 201.    | <i>Gerridae</i> sp.   |             |                   |                                    |
| 202.    | 24443 <i>Grallina cyanoleuca</i> (Magpie-lark)                          |             |                   |                                    |
| 203.    | <i>Gretacarus</i> nsp. P1 (PSW)   |             |                   |                                    |
| 204.    | <i>Gretacarus</i> sp.   |             |                   |                                    |
| 205.    | <i>Gymnocranius grandoculis</i>   |             |                   |                                    |
| 206.    | 24295 <i>Haliastur sphenurus</i> (Whistling Kite)                       |             |                   |                                    |
| 207.    | <i>Halosbaena tulki</i>   |             |                   |                                    |
| 208.    | <i>Hantzschia amphioxys</i> (Ehr.) Grun.                                |             |                   |                                    |
| 209.    | <i>Hantzschia marina</i> (Donk.) Cl.                                    |             |                   |                                    |
| 210.    | <i>Harpacticoida</i> sp   |             |                   |                                    |
| 211.    | <i>Helluapterus niger</i>   |             |                   |                                    |
| 212.    | <i>Hellyethira</i> sp.  |             |                   |                                    |
| 213.    | <i>Hemicordulia koomina</i>   |             |                   |                                    |
| 214.    | 24961 <i>Heteronotia binoei</i> (Bynoe's Gecko)                         |             |                   |                                    |
| 215.    | 24962 <i>Heteronotia spelea</i> (Desert Cave Gecko, Pilbara Cave Gecko) |             |                   |                                    |
| 216.    | 25734 <i>Himantopus himantopus</i> (Black-winged Stilt)                 |             |                   |                                    |
| 217.    | <i>Hoggicosa snelli</i>   |             |                   |                                    |
| 218.    | <i>Humphreyscandona 'akaina'</i> (PSS)                                  |             |                   |                                    |
| 219.    | <i>Hydra</i> sp.  |             |                   |                                    |
| 220.    | <i>Hydrachna</i> sp. 4/5 (PSW)  |             |                   |                                    |
| 221.    | <i>Hydraena barbipes</i>  |             |                   |                                    |
| 222.    | <i>Hydrochus eurypleuron</i>  |             |                   |                                    |
| 223.    | <i>Hydrochus obsкуроaeneus</i>  |             |                   |                                    |
| 224.    | <i>Hydrochus</i> sp. P1 (PSW)   |             |                   |                                    |
| 225.    | <i>Hydrodroma</i> sp.   |             |                   |                                    |
| 226.    | <i>Hydroglyphus grammopterus</i> (=trilineatus)                         |             |                   |                                    |
| 227.    | <i>Hydroglyphus leai</i>  |             |                   |                                    |
| 228.    | <i>Hydrophilidae</i> sp.  |             |                   |                                    |
| 229.    | <i>Hydrovatus weiri</i>   |             |                   |                                    |
| 230.    | <i>Ictinogomphus dobsoni</i>  |             |                   |                                    |
| 231.    | <i>Ilyocyptus raridentatus</i>  |             |                   |                                    |
| 232.    | <i>Ilyodromus</i> sp BOS25  |             |                   |                                    |
| 233.    | <i>Ilyodromus</i> sp.   |             |                   |                                    |
| 234.    | <i>Indolpium</i> sp.  |             |                   |                                    |
| 235.    | <i>Ischnura aurora aurora</i>   |             |                   |                                    |
| 236.    | <i>Isostictidae</i> sp.   |             |                   |                                    |
| 237.    | <i>Karaops martamarta</i>   |             |                   |                                    |
| 238.    | 24367 <i>Lalage tricolor</i> (White-winged Triller)                     |             |                   |                                    |
| 239.    | <i>Larsia albiceps</i>  |             |                   |                                    |
| 240.    | <i>Lecane batillifer</i>  |             |                   |                                    |
| 241.    | <i>Lecane bulla</i>   |             |                   |                                    |
| 242.    | <i>Lecane crepida</i>   |             |                   |                                    |
| 243.    | <i>Lecane hornemanni</i>  |             |                   |                                    |
| 244.    | <i>Lecane luna</i>  |             |                   |                                    |
| 245.    | <i>Lecane lunaris</i>   |             |                   |                                    |
| 246.    | <i>Lecane papuana</i>   |             |                   |                                    |
| 247.    | <i>Lecane unguitata</i>   |             |                   |                                    |

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|---------|--|-------------|-------------------|------------------------------------|
| 248.    | <i>Leiopotherapon unicolor</i>   |             |                   |                                    |
| 249.    | <i>Lepadella (H.) ehrenbergii</i>  |             |                   |                                    |
| 250.    | <i>Lepadella (H.) heterostyla</i>  |             |                   |                                    |
| 251.    | <i>Lepadella triptera</i>  |             |                   |                                    |
| 252.    | <i>Lepidiota squamulata</i>  |             |                   |                                    |
| 253.    | <i>Leptoceridae sp.</i>  |             |                   |                                    |
| 254.    | 30928 <i>Lerista clara</i>   |             |                   |                                    |
| 255.    | 25135 <i>Lerista flammicauda</i>   |             |                   |                                    |
| 256.    | 25155 <i>Lerista muelleri</i>  |             |                   |                                    |
| 257.    | <i>Lesquereusia spiralis</i>   |             |                   |                                    |
| 258.    | <i>Lethocerus distinctifemur</i>   |             |                   |                                    |
| 259.    | 25005 <i>Lialis burtonis</i>   |             |                   |                                    |
| 260.    | 25661 <i>Lichmera indistincta (Brown Honeyeater)</i>                         |             |                   |                                    |
| 261.    | 24582 <i>Lichmera indistincta subsp. indistincta (Brown Honeyeater)</i>      |             |                   |                                    |
| 262.    | <i>Limnesia sp. 4 (PSW)</i>  |             |                   |                                    |
| 263.    | 25392 <i>Litoria rubella (Little Red Tree Frog)</i>                          |             |                   |                                    |
| 264.    | 30933 <i>Lucasium stenodactylum</i>  |             |                   |                                    |
| 265.    | 30934 <i>Lucasium wombeyi</i>  |             |                   |                                    |
| 266.    | <i>Lychas sp. 2</i>  |             |                   |                                    |
| 267.    | <i>Lycidas sp. 1</i>   |             |                   |                                    |
| 268.    | <i>Lycidas sp. 2</i>   |             |                   |                                    |
| 269.    | <i>Lymnaeidae sp.</i>  |             |                   |                                    |
| 270.    | 25489 <i>Macropus robustus (Euro, Biggada)</i>                               |             |                   |                                    |
| 271.    | 24135 <i>Macropus robustus subsp. erubescens (Euro, Biggada)</i>             |             |                   |                                    |
| 272.    | 25651 <i>Malurus lamberti (Variegated Fairy-wren)</i>                        |             |                   |                                    |
| 273.    | 25652 <i>Malurus leucopterus (White-winged Fairy-wren)</i>                   |             |                   |                                    |
| 274.    | 24549 <i>Malurus leucopterus subsp. leuconotus (White-winged Fairy-wren)</i> |             |                   |                                    |
| 275.    | 24583 <i>Manorina flavigula (Yellow-throated Miner)</i>                      |             |                   |                                    |
| 276.    | <i>Mastogloia elliptica (Ag.) Cl.</i>  |             |                   |                                    |
| 277.    | <i>Mastogloia elliptica var. danseii (thwaites) grun.</i>                    |             |                   |                                    |
| 278.    | <i>Mastogloia smithii Thwaites</i>   |             |                   |                                    |
| 279.    | <i>Meedo houstoni</i>  |             |                   |                                    |
| 280.    | <i>Megacephala greyana</i>   |             |                   |                                    |
| 281.    | 25665 <i>Melithreptus gularis (Black-chinned Honeyeater)</i>                 |             |                   |                                    |
| 282.    | <i>Melitidae sp. 1 (PSS)</i>   |             |                   |                                    |
| 283.    | 24736 <i>Melopsittacus undulatus (Budgerigar)</i>                            |             |                   |                                    |
| 284.    | 25184 <i>Menetia greyii</i>  |             |                   |                                    |
| 285.    | 24598 <i>Merops ornatus (Rainbow Bee-eater)</i>                              |             |                   |                                    |
| 286.    | <i>Mesocyclops brooksi</i>   |             |                   |                                    |
| 287.    | <i>Mesocyclops darwini</i>   |             |                   |                                    |
| 288.    | <i>Mesovelia hungerfordi</i>   |             |                   |                                    |
| 289.    | <i>Mesoveliidae sp.</i>  |             |                   |                                    |
| 290.    | <i>Microcarbo melanoleucos</i>   |             |                   |                                    |
| 291.    | <i>Microchironomus 'K1' (PSW)</i>  |             |                   |                                    |
| 292.    | <i>Microcyclops varicans</i>   |             |                   |                                    |
| 293.    | <i>Micronecta n. sp. P1 (PSW)</i>  |             |                   |                                    |
| 294.    | 25542 <i>Milvus migrans (Black Kite)</i>                                     |             |                   |                                    |
| 295.    | <i>Minasteron minusculum</i>   |             |                   |                                    |
| 296.    | 25545 <i>Mirafra javanica (Horsfield's Bushlark, Singing Bushlark)</i>       |             |                   |                                    |
| 297.    | <i>Missulena rutraspina</i>  |             |                   |                                    |
| 298.    | <i>Monommata sp.</i>   |             |                   |                                    |
| 299.    | 25193 <i>Morethia ruficauda subsp. exquisita</i>                             |             |                   |                                    |
| 300.    | 24183 <i>Mormopterus loriae (Little Northern Freetail-bat)</i>               |             |                   |                                    |
| 301.    | 24223 <i>Mus musculus (House Mouse)</i>                                      | Y           |                   |                                    |
| 302.    | <i>Mytilina ventralis macracantha</i>  |             |                   |                                    |
| 303.    | <i>Navicula bryophila Petersen</i>   |             |                   |                                    |
| 304.    | <i>Navicula cryptocephala Kütz.</i>  |             |                   |                                    |
| 305.    | <i>Navicula cryptoneilla Lange-Bertalot</i>                                  |             |                   |                                    |
| 306.    | <i>Navicula leptostriata Jørgensen</i>                                       |             |                   |                                    |
| 307.    | <i>Navicula subrhynchocephala Hust.</i>                                      |             |                   |                                    |
| 308.    | <i>Navicula veneta Kütz.</i>   |             |                   |                                    |
| 309.    | <i>Necterosoma regulare</i>  |             |                   |                                    |
| 310.    | <i>Nedsia sp.</i>  |             |                   |                                    |
| 311.    | <i>Nematalosa erebi</i>  |             |                   |                                    |
| 312.    | <i>Nematoda sp. P2/P4 (PSW)</i>  |             |                   |                                    |
| 313.    | <i>Nematoda sp. P5 (PSW)</i>   |             |                   |                                    |
| 314.    | <i>Nematoda sp. P8 (PSW)</i>   |             |                   |                                    |
| 315.    | <i>Neohydrocoptus subfasciatus</i>   |             |                   |                                    |
| 316.    | 24972 <i>Nephrurus wheeleri subsp. cinctus</i>                               |             |                   |                                    |
| 317.    | <i>Nerthra luteovaria</i>  |             |                   |                                    |

| Name ID | Species Name  | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|---|-------------|-------------------|------------------------------------|
| 318.    | <i>Nilobezzia</i> sp. P2 (PSW)  |             |                   |                                    |
| 319.    | 24095 <i>Ningau timealeyi</i> (Pilbara Ningau)                                      |             |                   |                                    |
| 320.    | <i>Nitzschia amphibia</i> Grun.   |             |                   |                                    |
| 321.    | <i>Nitzschia angustata</i> Grun.  |             |                   |                                    |
| 322.    | <i>Nitzschia frustulum</i> (Kütz.) Grun.  |             |                   |                                    |
| 323.    | <i>Nitzschia microcephala</i> Grun.   |             |                   |                                    |
| 324.    | <i>Nitzschia obtusa</i> W. Sm   |             |                   |                                    |
| 325.    | <i>Nitzschia palea</i> (Kütz.) W. Sm.   |             |                   |                                    |
| 326.    | 24224 <i>Notomys alexis</i> (Spinifex Hopping-mouse)                                |             |                   |                                    |
| 327.    | <i>Notonectidae</i> sp.   |             |                   |                                    |
| 328.    | 25499 <i>Notoscincus ornatus</i>  |             |                   |                                    |
| 329.    | <i>Notsodipus barlee</i>  |             |                   |                                    |
| 330.    | 24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)                          |             |                   |                                    |
| 331.    | 24742 <i>Nymphicus hollandicus</i> (Cockatiel)                                      |             |                   |                                    |
| 332.    | <i>Ochterus</i> sp.   |             |                   |                                    |
| 333.    | 24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)                                     |             |                   |                                    |
| 334.    | <i>Oecetis</i> sp. Pilbara 4 (PSW)  |             |                   |                                    |
| 335.    | <i>Oecetis</i> sp. Pilbara 5 (PSW)  |             |                   |                                    |
| 336.    | 24976 <i>Oedura marmorata</i> (Marbled Velvet Gecko)                                |             |                   |                                    |
| 337.    | <i>Oligochaeta</i> sp.  |             |                   |                                    |
| 338.    | <i>Omoedus orbiculatus</i>  |             |                   |                                    |
| 339.    | <i>Onthophagus margaretensis</i>  |             |                   |                                    |
| 340.    | <i>Onthophagus nevoissi</i>   |             |                   |                                    |
| 341.    | 24618 <i>Oreoica gutturalis</i> (Crested Bellbird)                                  |             |                   |                                    |
| 342.    | <i>Oribatida</i> group 1 (PSS)  |             |                   |                                    |
| 343.    | <i>Origocandona 'posteriorecta'</i> (PSS)   |             |                   |                                    |
| 344.    | <i>Orthetrum caledonicum</i>  |             |                   |                                    |
| 345.    | <i>Orthocladinae</i> sp. G (SAP)  |             |                   |                                    |
| 346.    | <i>Oxus orientalis</i>  |             |                   |                                    |
| 347.    | 25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)                             |             |                   |                                    |
| 348.    | <i>Paracyclops</i> sp. 8 (PSW)  |             |                   |                                    |
| 349.    | <i>Paracymus spenceri</i>   |             |                   |                                    |
| 350.    | <i>Paramelitidae</i> sp.  |             |                   |                                    |
| 351.    | <i>Paratanytarsus</i> sp. P3 (PSW)  |             |                   |                                    |
| 352.    | <i>Paratendipes</i> sp. 'K1' (PSW)  |             |                   |                                    |
| 353.    | 24627 <i>Pardalotus rubricatus</i> (Red-browed Pardalote)                           |             |                   |                                    |
| 354.    | 25682 <i>Pardalotus striatus</i> (Striated Pardalote)                               |             |                   |                                    |
| 355.    | 48060 <i>Petrochelidon ariel</i> (Fairy Martin)                                     |             |                   |                                    |
| 356.    | 48061 <i>Petrochelidon nigricans</i> (Tree Martin)                                  |             |                   |                                    |
| 357.    | 24144 <i>Petrogale rothschildi</i> (Rothschild's Rock-wallaby)                      |             |                   |                                    |
| 358.    | 25697 <i>Phalacrocorax carbo</i> (Great Cormorant)                                  |             |                   |                                    |
| 359.    | 25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)                     |             |                   |                                    |
| 360.    | 24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)                    |             |                   |                                    |
| 361.    | 24409 <i>Phaps chalcoptera</i> (Common Bronzewing)                                  |             |                   |                                    |
| 362.    | <i>Phorticosomus gularis</i>  |             |                   |                                    |
| 363.    | <i>Phreodrilid</i> with dissimilar ventral chaetae                                  |             |                   |                                    |
| 364.    | <i>Phreodrilidae</i> sp.  |             |                   |                                    |
| 365.    | <i>Pilbarus millsii</i>   |             |                   |                                    |
| 366.    | <i>Pinnularia divergens</i> W. Sm.  |             |                   |                                    |
| 367.    | <i>Pinnularia gibba</i> Ehr.  |             |                   |                                    |
| 368.    | <i>Piona cumberlandensis</i>  |             |                   |                                    |
| 369.    | 24101 <i>Planigale ingrami</i> (Long-tailed Planigale)                              |             |                   |                                    |
| 370.    | <i>Planorbidae</i> sp.  |             |                   |                                    |
| 371.    | <i>Platinius patulus</i>  |             |                   |                                    |
| 372.    | 25721 <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)         |             |                   |                                    |
| 373.    | <i>Platycoelus melliei</i>  |             |                   |                                    |
| 374.    | <i>Platyias quadricornis</i>  |             |                   |                                    |
| 375.    | <i>Pleidae</i> sp.  |             |                   |                                    |
| 376.    | 25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)                                    |             |                   |                                    |
| 377.    | 24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)                |             |                   |                                    |
| 378.    | <i>Polyarthra dolichoptera</i>  |             |                   |                                    |
| 379.    | <i>Polypedilum leei</i>   |             |                   |                                    |
| 380.    | <i>Polypedilum nubifer</i>  |             |                   |                                    |
| 381.    | 24683 <i>Pomatostomus superciliosus</i> (White-browed Babbler)                      |             |                   |                                    |
| 382.    | 25706 <i>Pomatostomus temporalis</i> (Grey-crowned Babbler)                         |             |                   |                                    |
| 383.    | 24684 <i>Pomatostomus temporalis</i> subsp. <i>rubeculus</i> (Grey-crowned Babbler) |             |                   |                                    |
| 384.    | <i>Pristina longiseta</i>   |             |                   |                                    |
| 385.    | <i>Procladius paludicola</i>  |             |                   |                                    |
| 386.    | <i>Pseudagrion aureofrons</i>   |             |                   |                                    |
| 387.    | <i>Pseudagrion microcephalum</i>  |             |                   |                                    |



| Name ID | Species Name  | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|---|-------------|-------------------|------------------------------------|
| 388.    | 25261 <i>Pseudechis australis</i> (Mulga Snake)                                     |             |                   |                                    |
| 389.    | <i>Pseudectinosoma galassiae</i>  |             |                   |                                    |
| 390.    | <i>Pseudohydryphantes</i> sp. P1 (PSW)  |             |                   |                                    |
| 391.    | 24235 <i>Pseudomys desertor</i> (Desert Mouse)                                      |             |                   |                                    |
| 392.    | 24237 <i>Pseudomys hermannsburgensis</i> (Sandy Inland Mouse)                       |             |                   |                                    |
| 393.    | 25263 <i>Pseudonaja modesta</i> (Ringed Brown Snake)                                |             |                   |                                    |
| 394.    | 24757 <i>Ptilonorhynchus maculatus</i> subsp. <i>guttatus</i> (Western Bowerbird)   |             |                   |                                    |
| 395.    | <i>Pygolabis</i> sp.  |             |                   |                                    |
| 396.    | 25009 <i>Pygopus nigriceps</i>  |             |                   |                                    |
| 397.    | <i>Pyralidae</i> sp. 22 of JHH (PSW) (=Parapoynx stagnalis)                         |             |                   | Y                                  |
| 398.    | 24278 <i>Pyrrholaemus brunneus</i> (Redthroat)                                      |             |                   |                                    |
| 399.    | <i>Rhagada radleyi</i>  |             |                   |                                    |
| 400.    | <i>Rheotanytarsus christinae</i>  |             |                   |                                    |
| 401.    | <i>Rheotanytarsus trivittatus</i>   |             |                   |                                    |
| 402.    | 25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)                                  |             |                   |                                    |
| 403.    | <i>Rhopalodia gibberula</i> (Ehr.) O. Müll.   |             |                   |                                    |
| 404.    | 24982 <i>Rhynchoedura ornata</i> (Western Beaked Gecko)                             |             |                   |                                    |
| 405.    | 24174 <i>Saccolaimus flaviventris</i> (Yellow-bellied Sheath-tailed Bat)            |             |                   |                                    |
| 406.    | <i>Sciomyzidae</i> sp.  |             |                   |                                    |
| 407.    | <i>Scirtidae</i> sp.  |             |                   |                                    |
| 408.    | <i>Scolopendra laeta</i>  |             |                   |                                    |
| 409.    | 24200 <i>Scotorepens greyii</i> (Little Broad-nosed Bat)                            |             |                   |                                    |
| 410.    | <i>Sellephora pupula</i> (Kütz) Mereschkowsky                                       |             |                   |                                    |
| 411.    | 30948 <i>Smicromis brevirostris</i> (Weebill)                                       |             |                   |                                    |
| 412.    | 24116 <i>Sminthopsis macroura</i> (Stripe-faced Dunnart)                            |             |                   |                                    |
| 413.    | <i>Sternopriscus pilbarensis</i>  |             |                   |                                    |
| 414.    | 24482 <i>Stiltia isabella</i> (Australian Pratincole)                               |             |                   |                                    |
| 415.    | 25656 <i>Stipiturus ruficeps</i> (Rufous-crowned Emu-wren)                          |             |                   |                                    |
| 416.    | 24556 <i>Stipiturus ruficeps</i> subsp. <i>ruficeps</i> (Rufous-crowned Emu-wren)   |             |                   |                                    |
| 417.    | <i>Strandesia</i> sp.   |             |                   |                                    |
| 418.    | <i>Strandesia</i> sp. 3 (PSS)   |             |                   | Y                                  |
| 419.    | <i>Stratiomyidae</i> sp.  |             |                   |                                    |
| 420.    | 24927 <i>Strophurus elderi</i>  |             |                   |                                    |
| 421.    | <i>Stygonitocrella unispinosa</i>   |             |                   |                                    |
| 422.    | 25269 <i>Suta fasciata</i> (Rosen's Snake)  |             |                   |                                    |
| 423.    | <i>Tabanidae</i> sp.  |             |                   |                                    |
| 424.    | 25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe) |             |                   |                                    |
| 425.    | 24207 <i>Tachyglossus aculeatus</i> (Short-beaked Echidna)                          |             |                   |                                    |
| 426.    | 30870 <i>Taeniopygia guttata</i> (Zebra Finch)                                      |             |                   |                                    |
| 427.    | <i>Tanypodinae</i> sp.  |             |                   |                                    |
| 428.    | <i>Tanytarsus</i> sp. D (SAP)   |             |                   |                                    |
| 429.    | 24175 <i>Taphozous georgianus</i> (Common Sheath-tailed Bat)                        |             |                   |                                    |
| 430.    | <i>Tasmanocoenis arcuata</i>  |             |                   |                                    |
| 431.    | <i>Tesserodon novaehollandiae</i>   |             |                   |                                    |
| 432.    | <i>Tesserodon tenebroides</i>   |             |                   |                                    |
| 433.    | <i>Testudinella amphora</i>   |             |                   |                                    |
| 434.    | <i>Testudinella patina</i>  |             |                   |                                    |
| 435.    | <i>Thermosbaenacea</i> sp.  |             |                   |                                    |
| 436.    | 24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)                           |             |                   |                                    |
| 437.    | <i>Tiporus lachlani</i>   |             |                   |                                    |
| 438.    | <i>Tiporus tambreyi</i>   |             |                   |                                    |
| 439.    | <i>Tipulidae</i> type D (SAP)   |             |                   |                                    |
| 440.    | 42351 <i>Todiramphus pyrrhopygius</i> (Red-backed Kingfisher)                       |             |                   |                                    |
| 441.    | 25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)                                |             |                   |                                    |
| 442.    | 48141 <i>Tribonyx ventralis</i> (Black-tailed Native-hen)                           |             |                   |                                    |
| 443.    | <i>Trichocarenum cylindricum</i>  |             |                   |                                    |
| 444.    | <i>Trichocerca pusilla</i>  |             |                   |                                    |
| 445.    | <i>Trichocerca similis</i>  |             |                   |                                    |
| 446.    | <i>Trichocycclus nigropunctatus</i>   |             |                   |                                    |
| 447.    | <i>Trichocycclus warianga</i>   |             |                   |                                    |
| 448.    | 39407 <i>Triops australiensis</i> (Shield Shrimp)                                   |             |                   |                                    |
| 449.    | <i>Turbellaria</i> sp.  |             |                   |                                    |
| 450.    | 24851 <i>Turnix velox</i> (Little Button-quail)                                     |             |                   |                                    |
| 451.    | <i>Unionicola crassipalpis</i>  |             |                   |                                    |
| 452.    | 25445 <i>Uperoleia russelli</i> (Northwest Toadlet)                                 |             |                   |                                    |
| 453.    | 41428 <i>Uperoleia saxatilis</i> (Pilbara Toadlet)                                  |             |                   |                                    |
| 454.    | 25209 <i>Varanus acanthurus</i> (Spiny-tailed Monitor)                              |             |                   |                                    |
| 455.    | 25210 <i>Varanus breviceuda</i> (Short-tailed Pygmy Monitor)                        |             |                   |                                    |
| 456.    | 25212 <i>Varanus eremius</i> (Pygmy Desert Monitor)                                 |             |                   |                                    |
| 457.    | 25216 <i>Varanus giganteus</i> (Perentie)   |             |                   |                                    |

| Name ID | Species Name  | Naturalised | Conservation Code | <sup>1</sup> Endemic To Query Area |
|---------|---|-------------|-------------------|------------------------------------|
| 458.    | 25524 <i>Varanus panoptes</i> (Yellow-spotted Monitor)                                |             |                   |                                    |
| 459.    | 25223 <i>Varanus panoptes</i> subsp. <i>rubidus</i>                                   |             |                   |                                    |
| 460.    | 25224 <i>Varanus pilbarensis</i> (Pilbara Rock Monitor, Northern Pilbara Rock Goanna) |             |                   |                                    |
| 461.    | <i>Velesunio wilsoni</i>  |             |                   |                                    |
| 462.    | <i>Velliidae</i> sp.  |             |                   |                                    |
| 463.    | <i>Venatrix pullastra</i>   |             |                   |                                    |
| 464.    | 24205 <i>Vespadelus finlaysoni</i> (Finlayson's Cave Bat)                             |             |                   |                                    |
| 465.    | <i>Vestalenula marmonieri</i>   |             |                   |                                    |
| 466.    | <i>Wyndra kenedy</i>  |             |                   |                                    |
| 467.    | <i>Zenodorus orbiculatus</i>  |             |                   |                                    |
| 468.    | <i>Zoothamnium</i> sp.  |             |                   |                                    |
| 469.    | 24248 <i>Zyzomys argurus</i> (Common Rock-rat)  |             |                   |                                    |

**Conservation Codes**

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

<sup>1</sup> For NatureMap's purposes, species flagged as endemic are those whose records are wholly 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.

# **Appendix B**

## **Licence and Authorisation**





## **FAUNA TAKING (BIOLOGICAL ASSESSMENT) LICENCE**

**Regulation 27, Biodiversity Conservation Regulations 2018**

Licence Number: BA27000324

Licence Holder: Mr Lukas Geidans  
360 Environmental Services  
Unit 4 / 193 Oxford Street  
LEEDERVILLE WA 6007

Date of Issue: 01/10/2020

Date Valid From: 01/10/2020

Date of Expiry: 31/10/2020

### **LICENSED ACTIVITIES**

Subject to the terms and conditions on this licence, the licence holder may –

1. Take and disturb fauna for biological fauna assessment of a proposed haul road footprint, spanning from Ken's Bore to the Onslow Port, to identify the faunal assemblages and fauna impacts from the construction using baited remote sensing cameras, ultrasonic bat detectors, visual observations, hand collecting techniques, large cage traps, Elliot (medium) traps, 10 pit traps (comprising 20 L buckets and five PVC pipes); and funnel traps.

### **LOCATIONS**

1. Ken's Bore to Onslow haul road survey area, Pilbara Region.

### **AUTHORISED PERSONS**

The following persons or persons of the specified class may assist in carrying out the licensed activities:

1. Lukas Geidans
2. Evan Webb
3. Edward Swinhoe
4. Michael Brown
5. Timothy Moulds

### **CONDITIONS**

1. Fauna must not be taken on CALM land, (as defined in the Conservation and Land Management Regulations 2002), unless authorised by a written notice of a lawful authority issued under regulations 4 and 8 of the Conservation and Land Management Regulations 2002.
2. If persons, other than the licence holder, are authorised to carry out/assist in carrying out the activities under the licence, the licence holder must ensure those persons have read and understand the licence terms and conditions.
3. The written authorisation of the person in possession or occupation of the land accessed and upon which fauna is taken, as required under regulation 101(2) and referred to in "Additional information" below, must:
  - a) state location details (including lot or location number, street/road, suburb and local government authority);



- b) state land owner or occupier name, and contact phone number;
  - c) specify the time period that the authorisation is valid for;
  - d) be signed and dated; and
  - e) be attached to this licence at all times.
4. This licence, and any written authorisation or lawful authority which authorises the take of fauna on specified locations must be carried at all times while conducting licensed activities and be produced on demand by a wildlife officer.
  5. If a species of fauna listed as a threatened species under Section 19 of the *Biodiversity Conservation Act 2016* is inadvertently captured, that species is to be released immediately at the point of capture. If the fauna is injured or deceased, the licence holder shall contact the DBCA Wildlife Licensing Section ([wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au)) for advice on treatment or disposal. Details of any capture of threatened fauna must be included in the "Return of Fauna Taken."
  6. The licence holder must not:
    - a) release any fauna in any area where it does not naturally occur;
    - b) transfer fauna to any other person or authority (other than the Western Australian Museum) unless approved in writing by the CEO; or
    - c) dispose of the remains of fauna in any manner likely to interfere the natural or present day distribution of the species.
  7. The licence holder must not take and remove more than ten specimens of any one protected species of fauna from any location less than 20km apart. Where exceptional circumstances make it necessary to take a larger number of specimens from a particular location in order to obtain adequate statistical data, the collector must proceed with circumspection and justify their actions to the Director General in advance.
  8. All holotypes and syntypes and a half share of paratypes of species or subspecies permitted to be permanently taken under this licence must be donated to the Western Australian Museum. Duplicates (one pair in each case) of any species collected, which represents a significant extension of geographic range must be offered to the Western Australian Museum.
  9. All specimens and material retained under the authority of this licence must be offered to the Western Australian Museum for loan, for inclusion in its collection, or on request be made available to other persons involved in relevant scientific studies.
  10. The licence holder must create, compile and maintain records and information as required in a DBCA approved "Return of Fauna Taken" of all fauna taking activities as they occur.
  11. A DBCA approved "Return of Fauna Taken" must be completed in full (including nil taking details) and submitted to DBCA Wildlife Licensing Section ([wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au)) prior to the end of each annual period of the licence (from the valid from date) (refer to "Additional Information" section below).

A handwritten signature in blue ink, appearing to read "D. Stefoni".

Danny Stefoni  
LICENSING OFFICER  
WILDLIFE PROTECTION BRANCH

Delegate of CEO

## ADDITIONAL INFORMATION

1. It is an offence to take any species of fauna listed as a threatened species under Section 19 of the *Biodiversity Conservation Act 2016* unless the person is authorised under Section 40. The penalty ranges between \$300 000 and \$500 000; Section 150 Biodiversity Conservation Act 2016.
2. Regulation 82 empowers the CEO to add, substitute or delete a term or condition of a licence or to correct errors. Such power may be exercised on application of a licence holder or by the CEO's own initiative. If an amendment to a licence term or condition is required, please contact the CEO or the Licensing Section on [wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au) in the first instance. The licence holder, if adversely affected by a condition imposed in this licence, may apply to the State Administrative Tribunal for review of the decision of the CEO to impose that condition on a licence: regulation 89(2) Biodiversity Conservation Regulations 2018.
3. A person must not contravene a condition of a licence. The penalty for an offence involving the contravention of a condition of a licence is a fine of \$10 000: regulation 84 of the Biodiversity Conservation Regulations 2018.
4. It is an offence for persons authorised by this licence to enter land that is not in their possession or under their control without first having the *prior* written authorisation of the current owner or occupier of the land to:
  - a) enter the land; and
  - b) carry out the activity authorised by this licence.The penalty for this offence is a fine of \$5 000: regulation 101(2) of the Biodiversity Conservation Regulations 2018.
5. The licence holder must be able to produce for inspection upon request any information or records required by regulation 85(2) of the Biodiversity Conservation Regulations 2018 Penalty \$10 000. It is an offence to knowingly include false or misleading information or make statements in records: regulation 85(3) of the Biodiversity Conservation Regulations 2018 Penalty \$10 000. It is an offence to include any information or make any statement in a return that the licence holder knows to be false or misleading in a material particular: regulation 86 (2) of the Biodiversity Conservation Regulations 2018 Penalty \$10 000.
6. The approved DBCA "Return of Fauna Taken" data file can be downloaded from the DBCA webpage (<https://www.dpaw.wa.gov.au/plants-and-animals/licences-and-authorities>).
7. The issuing of a licence under the Biodiversity Conservation Regulations 2018 does not constitute an animal ethics approval or a licence to use animals for scientific purposes as required under the *Animal Welfare Act 2002*, Animal Welfare (Scientific Purposes) Regulations 2003. It is the responsibility of a licence applicant / licence holder to ensure that they comply with the requirements of all applicable legislation. Enquiries relating to the Animal Welfare Act licences and animal ethics approvals are to be directed to the Department of Primary Industries and Regional Development (<https://www.agric.wa.gov.au/animalwelfare>).
8. Threatened fauna can only be taken under a *Biodiversity Conservation Act 2016* Section 40 authorisation, Occurrences of threatened species must be reported to the CEO. For more information please see <https://www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-animals>.
9. Any interaction involving Nationally Listed Threatened Fauna that may be invasive and/or harmful to the fauna may require approval from the Commonwealth Department of the Environment and Energy





<http://www.environment.gov.au/about-us/business-us/permits-assessments-licences>. Interaction with such species is controlled by the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and Environment Protection and Biodiversity Conservation Regulations 2000 as well as the *Biodiversity Conservation Act 2016* and Biodiversity Conservation Regulations 2018.



## AUTHORISATION TO TAKE OR DISTURB THREATENED SPECIES

*Section 40 of the Biodiversity Conservation Act 2016*

### AUTHORISATION DETAILS

**Authorisation type:** Fauna

**Authorisation number:** TFA 2020-0104

**Authorisation duration:** From date signed by Minister's delegate, below, until 31 October 2020.

### AUTHORISATION HOLDER

Lukas Geidans

360 Environmental

Unit 4 / 193 Oxford Street

Leederville WA 6007

### AREA TO WHICH THIS AUTHORISATION APPLIES

Ken's Bore to Onslow haul road survey area, Pilbara Region.

### AUTHORISED ACTIVITY

**Purpose of taking/disturbance:**

Biological assessment (comprehensive field survey) of a proposed haul road footprint, spanning from Ken's Bore to the Onslow Port, to identify the faunal assemblages and fauna impacts from the construction (Mineral Resources Limited).

**Threatened species authorised to be taken/disturbed (including conservation status):**

Northern quoll, *Dasyurus hallucatus* (Endangered)

Pilbara Olive Python, *Liasis olivaceus barroni* (Vulnerable)

**Quantity of threatened species authorised to be taken/disturbed:**

Any number of individual animals of the above listed threatened fauna species may potentially be captured and released during the trapping program and/or disturbed by the survey.

**Authorised taking/disturbance methodology:**

Take northern quolls using cage or Elliott traps (set for up to eight days/seven nights). Traps are to be covered with hessian, set in complete shade throughout the whole day and checked within three hours of sunrise. If temperatures are forecast >35 °C, traps will be closed within three hours of sunrise, remain closed during the day and be re-opened in the late afternoon. If any adverse events are observed related to temperature /heat exposure, regardless of forecast temperature, then traps will

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be closed during the day (adverse events will be reported as soon as possible). Traps will be baited with universal bait (rolled oats, peanut butter and sardines).

Captured quolls may have morphometric and condition/health details recorded and may be temporarily marked (using xylene free marker pen, to identify recaptures) prior to release near capture site.

Disturb northern quolls and Pilbara olive pythons using cameras traps deployed (up to seven nights at each location) with a consumable lure (universal bait - rolled oats, peanut butter and sardines, replenished as necessary or every two days). Pilbara olive pythons may be disturbed by opportunistic active searching.

All proposed activities will be conducted in accordance with DBCA Standard Operating Procedures (SOPs) for fauna survey and monitoring techniques.

### ADDITIONAL AUTHORISED PERSONS

Evan Webb

Michael Brown

Edward Swinhoe

Timothy Moulds

Additional personnel who are suitably qualified and experienced in the authorised activities working under the direction of the authorisation holder.

Field assistants assisting with the authorised activities working under the direct supervision of the authorisation holder or suitably qualified and experienced named additional authorised person.

### CONDITIONS

1. The written authorisation of the person in possession or occupation of the land accessed and upon which threatened fauna is taken or disturbed must:
  - a) state location details (including lot or location number, street/road, suburb and local government authority);
  - b) state land owner or occupier name, and contact phone number;
  - c) specify the time period that the authorisation is valid for;
  - d) be signed and dated; and
  - e) be attached to this Authorisation to take or disturb threatened species at all times.
2. This Authorisation to take or disturb threatened species, and any other written authorisation or lawful authority which authorises the take or disturbance of fauna on specified locations for the authorised activities must be carried at all times while conducting authorised activities and be produced on demand by a wildlife officer.
3. The authorisation holder and additional authorised persons who are not suitably qualified and experienced in the authorised activities, and volunteer field assistants assisting with the authorised activities, must be working under direct supervision of experienced and competent named authorised persons.
4. Any inadvertently captured species of non-target threatened fauna or non-threatened fauna (threatened fauna as defined in *Biodiversity Conservation Act 2016* Section 19) is to be released immediately at the point of capture. Details of such fauna must be included in the fauna taking return as required under this authorisation.

 (Delegate's initials)



5. The authorisation holder, unless specified in the authorised activities, must not:
  - a) release any threatened fauna in any area where it does not naturally occur;
  - b) transfer threatened fauna to any other person or authority (other than the Western Australian Museum) unless the fauna is injured or abandoned fauna (condition 6); or
  - c) dispose of the remains of threatened fauna in any manner likely to confuse the natural or present-day distribution of the species.
6. All threatened fauna injuries, unexpected deaths, unplanned euthanasia, and abandoned young or eggs, must be reported by the authorisation holder to the DBCA Wildlife Licensing Section (wildlifelicensing@dbca.wa.gov.au) to notify of the incident and for advice on treatment or disposal. All deceased threatened fauna must be offered to the Western Australian Museum.
7. All holotypes and syntypes and a half share of paratypes of species or subspecies permitted to be permanently taken under this authorisation must be donated to the Western Australian Museum. Duplicates (one pair in each case) of any species collected, which represents a significant extension of geographic range must be offered to the Western Australian Museum.
8. To prevent any unnecessary collecting in this State, all specimens and material taken and retained under this authorisation, that remain at the conclusion of the activities, must be offered to the Western Australian Museum for loan, for inclusion in its collection, or made available to other persons involved in relevant scientific studies if so required.
9. The authorisation holder must create, compile and maintain records and information as required in a DBCA approved "Return of Fauna Taken/Disturbed" of all fauna taking activities as they occur.
10. A DBCA approved "Return of Fauna Taken/Disturbed" must be completed in full (including nil taking details) and submitted to DBCA Wildlife Protection Branch, Wildlife Licensing Section (wildlifelicensing@dbca.wa.gov.au) prior to the end of the authorisation duration and, if the authorisation duration is greater than 12 months, prior to the end of each annual period of the authorisation (from the date signed by the Minister's delegate) (refer to "Additional Information" section below). Where a licence to take or disturb fauna is issued in conjunction with this Authorisation to take or disturb threatened species, a combined "Return of Fauna Taken/Disturbed" may be completed and submitted.
11. A written report detailing the undertaken authorised activities, outcome, unintended incidents, injuries and mortalities of threatened fauna, implemented monitoring, mitigation and management, and explaining the records and information as required in a DBCA approved "Return of Fauna Taken/Disturbed" must be submitted, in addition to a "Return of Fauna Taken/Disturbed" to DBCA Wildlife Licensing Section (wildlifelicensing@dbca.wa.gov.au).

## ADDITIONAL INFORMATION

1. Before undertaking the Authorised Activity, permission must be obtained from: (a) the owner or occupier of private land; or (b) the Department or Authority controlling Crown land, on which the Threatened Fauna occur. This includes obtaining the written endorsement from Department of Biodiversity, Conservation and Attractions (DBCA) if the authorised activity is proposed for land managed by DBCA.

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2. This Authorisation to take or disturb threatened species does not constitute lawful authority issued under regulations 4 and 8 of the *Conservation and Land Management Regulations 2002*. Contact the applicable Department District Officer for further information.
3. The approved DBCA "Return of Fauna Taken/Disturbed" template can be obtained from DBCA Wildlife Licensing Section ([wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au)).
4. Any interaction involving nationally listed threatened fauna that may be harmful to the fauna and/or invasive may require approval from the Commonwealth Department of the Environment and Energy (<http://www.environment.gov.au/biodiversity/threatened/permits>). Interaction with such species is controlled by the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and *Environment Protection and Biodiversity Conservation Regulations 2000*.
5. It is the responsibility of the authorisation holder to ensure that they comply with the requirements of all applicable legislation.
6. An Authorisation to take or disturb threatened species does not constitute an animal ethics approval or a licence to use animals for scientific purposes as required under the *Animal Welfare Act 2002*, *Animal Welfare (Scientific Purposes) Regulations 2003*. Enquiries relating to the Animal Welfare Act licences and animal ethics approvals are to be directed to the Western Australian Department of Primary Industries and Regional Development (<https://www.agric.wa.gov.au/animalwelfare>).

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Dr Margaret Byrne

Executive Director of Biodiversity and Conservation Science

AS DELEGATE OF THE MINISTER

DATE: ...25/.../...../2020



## **FAUNA TAKING (BIOLOGICAL ASSESSMENT) LICENCE**

### **Regulation 27, Biodiversity Conservation Regulations 2018**

Licence Number: BA27000324-2  
Licence Holder: Mr Lukas Geidans  
360 Environmental Services  
Unit 4 / 193 Oxford Street  
LEEDERVILLE WA 6007  
Date of Issue: 16/04/2021  
Date Valid From: 16/04/2021  
Date of Expiry: 01/04/2022

### **LICENSED ACTIVITIES**

Subject to the terms and conditions on this licence, the licence holder may –

1. Take and disturb fauna for biological fauna assessment of a proposed haul road footprint, spanning from Ken's Bore to the Onslow Port, to identify the faunal assemblages and fauna impacts from the construction using baited remote sensing cameras, ultrasonic bat detectors, visual observations, hand collecting techniques, large cage traps, Elliot (medium) traps, 10 pit traps (comprising 20 L buckets and five PVC pipes); and funnel traps.

### **LOCATIONS**

1. Ken's Bore to Onslow haul road survey area, Pilbara Region.

### **AUTHORISED PERSONS**

The following persons or persons of the specified class may assist in carrying out the licensed activities:

1. Lukas Geidans
2. Evan Webb
3. Edward Swinhoe
4. Michael Brown
5. Timothy Moulds
6. Christina Walker
7. Louis Masarei

### **CONDITIONS**

1. Fauna must not be taken on CALM land, (as defined in the Conservation and Land Management Regulations 2002), unless authorised by a written notice of a lawful authority issued under regulations 4 and 8 of the Conservation and Land Management Regulations 2002.
2. If persons, other than the licence holder, are authorised to carry out/assist in carrying out the activities under the licence, the licence holder must ensure those persons have read and understand the licence terms and conditions.
3. The written authorisation of the person in possession or occupation of the land accessed and upon which fauna is taken, as required under regulation 101(2) and referred to in "Additional information" below, must:





- a) state location details (including lot or location number, street/road, suburb and local government authority);
  - b) state land owner or occupier name, and contact phone number;
  - c) specify the time period that the authorisation is valid for;
  - d) be signed and dated; and
  - e) be attached to this licence at all times.
4. This licence, and any written authorisation or lawful authority which authorises the take of fauna on specified locations must be carried at all times while conducting licensed activities and be produced on demand by a wildlife officer.
  5. If a species of fauna listed as a threatened species under Section 19 of the *Biodiversity Conservation Act 2016* is inadvertently captured, that species is to be released immediately at the point of capture. If the fauna is injured or deceased, the licence holder shall contact the DBCA Wildlife Licensing Section ([wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au)) for advice on treatment or disposal. Details of any capture of threatened fauna must be included in the "Return of Fauna Taken."
  6. The licence holder must not:
    - a) release any fauna in any area where it does not naturally occur;
    - b) transfer fauna to any other person or authority (other than the Western Australian Museum) unless approved in writing by the CEO; or
    - c) dispose of the remains of fauna in any manner likely to interfere the natural or present day distribution of the species.
  7. The licence holder must not take and remove more than ten specimens of any one protected species of fauna from any location less than 20km apart. Where exceptional circumstances make it necessary to take a larger number of specimens from a particular location in order to obtain adequate statistical data, the collector must proceed with circumspection and justify their actions to the Director General in advance.
  8. All holotypes and syntypes and a half share of paratypes of species or subspecies permitted to be permanently taken under this licence must be donated to the Western Australian Museum. Duplicates (one pair in each case) of any species collected, which represents a significant extension of geographic range must be offered to the Western Australian Museum.
  9. All specimens and material retained under the authority of this licence must be offered to the Western Australian Museum for loan, for inclusion in its collection, or on request be made available to other persons involved in relevant scientific studies.
  10. The licence holder must create, compile and maintain records and information as required in a DBCA approved "Return of Fauna Taken" of all fauna taking activities as they occur.
  11. A DBCA approved "Return of Fauna Taken" must be completed in full (including nil taking details) and submitted to DBCA Wildlife Licensing Section ([wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au)) prior to the end of each annual period of the licence (from the valid from date) (refer to "Additional Information" section below).

A handwritten signature in blue ink, appearing to read 'OP Stefoni'.

Danny Stefoni  
LICENSING OFFICER

## WILDLIFE PROTECTION BRANCH

*Delegate of CEO*

### ADDITIONAL INFORMATION

1. It is an offence to take any species of fauna listed as a threatened species under Section 19 of the *Biodiversity Conservation Act 2016* unless the person is authorised under Section 40. The penalty ranges between \$300 000 and \$500 000; Section 150 Biodiversity Conservation Act 2016.
2. Regulation 82 empowers the CEO to add, substitute or delete a term or condition of a licence or to correct errors. Such power may be exercised on application of a licence holder or by the CEO's own initiative. If an amendment to a licence term or condition is required, please contact the CEO or the Licensing Section on [wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au) in the first instance. The licence holder, if adversely affected by a condition imposed in this licence, may apply to the State Administrative Tribunal for review of the decision of the CEO to impose that condition on a licence: regulation 89(2) Biodiversity Conservation Regulations 2018.
3. A person must not contravene a condition of a licence. The penalty for an offence involving the contravention of a condition of a licence is a fine of \$10 000: regulation 84 of the Biodiversity Conservation Regulations 2018.
4. It is an offence for persons authorised by this licence to enter land that is not in their possession or under their control without first having the *prior* written authorisation of the current owner or occupier of the land to:
  - a) enter the land; and
  - b) carry out the activity authorised by this licence.

The penalty for this offence is a fine of \$5 000: regulation 101(2) of the Biodiversity Conservation Regulations 2018.

5. The licence holder must be able to produce for inspection upon request any information or records required by regulation 85(2) of the Biodiversity Conservation Regulations 2018 Penalty \$10 000. It is an offence to knowingly include false or misleading information or make statements in records: regulation 85(3) of the Biodiversity Conservation Regulations 2018 Penalty \$10 000. It is an offence to include any information or make any statement in a return that the licence holder knows to be false or misleading in a material particular: regulation 86 (2) of the Biodiversity Conservation Regulations 2018 Penalty \$10 000.
6. The approved DBCA "Return of Fauna Taken" data file can be downloaded from the DBCA webpage (<https://www.dpaw.wa.gov.au/plants-and-animals/licences-and-authorities>).
7. The issuing of a licence under the Biodiversity Conservation Regulations 2018 does not constitute an animal ethics approval or a licence to use animals for scientific purposes as required under the *Animal Welfare Act 2002*, Animal Welfare (Scientific Purposes) Regulations 2003. It is the responsibility of a licence applicant / licence holder to ensure that they comply with the requirements of all applicable legislation. Enquiries relating to the Animal Welfare Act licences and animal ethics approvals are to be directed to the Department of Primary Industries and Regional Development (<https://www.agric.wa.gov.au/animalwelfare>).
8. Threatened fauna can only be taken under a *Biodiversity Conservation Act 2016* Section 40 authorisation, Occurrences of threatened species must be reported to the CEO. For more information please see <https://www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-animals>.



9. Any interaction involving Nationally Listed Threatened Fauna that may be invasive and/or harmful to the fauna may require approval from the Commonwealth Department of the Environment and Energy <http://www.environment.gov.au/about-us/business-us/permits-assessments-licences>. Interaction with such species is controlled by the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and Environment Protection and Biodiversity Conservation Regulations 2000 as well as the *Biodiversity Conservation Act 2016* and Biodiversity Conservation Regulations 2018.





## **AUTHORISATION TO TAKE OR DISTURB THREATENED SPECIES**

*Section 40 of the Biodiversity Conservation Act 2016*

### **AUTHORISATION DETAILS**

**Authorisation type:** Fauna

**Authorisation number:** TFA 2020-0104-2

**Authorisation duration:** From date signed by Minister's delegate, below, until 1 April 2022.

### **AUTHORISATION HOLDER**

Lukas Geidans

360 Environmental

Unit 4 / 193 Oxford Street

Leederville WA 6007

### **AREA TO WHICH THIS AUTHORISATION APPLIES**

Ken's Bore to Onslow haul road survey area (Pilbara Region).

### **AUTHORISED ACTIVITY**

**Purpose of taking/disturbance:**

Biological fauna assessment (comprehensive field survey) of a proposed haul road footprint, spanning from Ken's Bore to the Onslow Port, to identify the faunal assemblages and fauna impacts from the construction (Mineral Resources Limited).

**Threatened species authorised to be taken/disturbed (including conservation status):**

Northern quoll, *Dasyurus hallucatus* (Endangered)

Pilbara Olive Python, *Liasis olivaceus barroni* (Vulnerable)

**Quantity of threatened species authorised to be taken/disturbed:**

Any number of individual animals of the above listed threatened fauna species may potentially be captured and released during the trapping program and/or disturbed by the survey activities.

**Authorised taking/disturbance methodology:**

Take northern quolls using cage or Elliott traps (set for up to eight days/seven nights, consecutive, per trapping session). Traps are to be covered with hessian, set in complete shade throughout the whole day and checked within three hours of sunrise. If temperatures are forecast >35 °C, traps will be closed within three hours of sunrise, remain closed during the day and be re-opened in the late afternoon. If any adverse events are observed related to temperature /heat exposure, regardless of

forecast temperature, then traps will be closed during the day (adverse events will be reported as soon as possible). Traps will be baited with universal bait (rolled oats, peanut butter and sardines).

Captured quolls may have morphometric and condition/health details recorded and may be temporarily marked (using xylene free marker pen) to identify recaptures, prior to release near capture site.

Disturb northern quolls and Pilbara olive pythons using camera traps deployed (up to seven nights at each location) with a consumable lure (universal bait - rolled oats, peanut butter and sardines, replenished as necessary or every two days). Pilbara olive pythons may be disturbed by opportunistic active searching.

All proposed activities will be conducted in accordance with DBCA Standard Operating Procedures (SOPs) for fauna survey and monitoring techniques.

### ADDITIONAL AUTHORISED PERSONS

|                |                  |
|----------------|------------------|
| Evan Webb      | Timothy Moulds   |
| Edward Swinhoe | Christina Walker |
| Michael Brown  | Louis Masarei    |

Additional personnel who are suitably qualified and experienced in the authorised activities working under the direction of the authorisation holder.

Field assistants assisting with the authorised activities working under the direct supervision of the authorisation holder or suitably qualified and experienced named additional authorised person.

### CONDITIONS

1. The written authorisation of the person in possession or occupation of the land accessed and upon which threatened fauna is taken or disturbed must:
  - a) state location details (including lot or location number, street/road, suburb and local government authority);
  - b) state land owner or occupier name, and contact phone number;
  - c) specify the time period that the authorisation is valid for;
  - d) be signed and dated; and
  - e) be attached to this Authorisation to take or disturb threatened species at all times.
2. This Authorisation to take or disturb threatened species, and any other written authorisation or lawful authority which authorises the take or disturbance of fauna on specified locations for the authorised activities must be carried at all times while conducting authorised activities and be produced on demand by a wildlife officer.
3. The authorisation holder and additional authorised persons who are not suitably qualified and experienced in the authorised activities, and volunteer field assistants assisting with the authorised activities, must be working under direct supervision of experienced and competent named authorised persons.
4. Any inadvertently captured species of non-target threatened fauna or non-threatened fauna (threatened fauna as defined in *Biodiversity Conservation Act 2016* Section 19) is to be released

immediately at the point of capture. Details of such fauna must be included in the fauna taking return as required under this authorisation.

5. The authorisation holder, unless specified in the authorised activities, must not:
  - a) release any threatened fauna in any area where it does not naturally occur;
  - b) transfer threatened fauna to any other person or authority (other than the Western Australian Museum) unless the fauna is injured or abandoned fauna (condition 6); or
  - c) dispose of the remains of threatened fauna in any manner likely to confuse the natural or present-day distribution of the species.
6. All threatened fauna injuries, unexpected deaths, unplanned euthanasia, and abandoned young or eggs, must be reported by the authorisation holder to the DBCA Wildlife Licensing Section ([wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au)) to notify of the incident and for advice on treatment or disposal. All deceased threatened fauna must be offered to the Western Australian Museum.
7. All holotypes and syntypes and a half share of paratypes of species or subspecies permitted to be permanently taken under this authorisation must be donated to the Western Australian Museum. Duplicates (one pair in each case) of any species collected, which represents a significant extension of geographic range must be offered to the Western Australian Museum.
8. To prevent any unnecessary collecting in this State, all specimens and material taken and retained under this authorisation, that remain at the conclusion of the activities, must be offered to the Western Australian Museum for loan, for inclusion in its collection, or made available to other persons involved in relevant scientific studies if so required.
9. The authorisation holder must create, compile and maintain records and information as required in a DBCA approved "Return of Fauna Taken/Disturbed" of all fauna taking activities as they occur.
10. A DBCA approved "Return of Fauna Taken/Disturbed" must be completed in full (including nil taking details) and submitted to DBCA Wildlife Protection Branch, Wildlife Licensing Section ([wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au)) prior to the end of the authorisation duration and, if the authorisation duration is greater than 12 months, prior to the end of each annual period of the authorisation (from the date signed by the Minister's delegate) (refer to "Additional Information" section below). Where a licence to take or disturb fauna is issued in conjunction with this Authorisation to take or disturb threatened species, a combined "Return of Fauna Taken/Disturbed" may be completed and submitted.
11. A written report detailing the undertaken authorised activities, outcome, unintended incidents, injuries and mortalities of threatened fauna, implemented monitoring, mitigation and management, and explaining the records and information as required in a DBCA approved "Return of Fauna Taken/Disturbed" must be submitted, in addition to a "Return of Fauna Taken/Disturbed" to DBCA Wildlife Licensing Section ([wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au)).

## ADDITIONAL INFORMATION

1. Before undertaking the Authorised Activity, permission must be obtained from: (a) the owner or occupier of private land; or (b) the Department or Authority controlling Crown land, on which the Threatened Fauna occur. This includes obtaining the written endorsement from Department of Biodiversity, Conservation and Attractions (DBCA) if the authorised activity is proposed for land managed by DBCA.



2. This Authorisation to take or disturb threatened species does not constitute lawful authority issued under regulations 4 and 8 of the *Conservation and Land Management Regulations 2002*. Contact the applicable Department District Officer for further information.
3. The approved DBCA "Return of Fauna Taken/Disturbed" template can be obtained from DBCA Wildlife Licensing Section ([wildlifelicensing@dbca.wa.gov.au](mailto:wildlifelicensing@dbca.wa.gov.au)).
4. Any interaction involving nationally listed threatened fauna that may be harmful to the fauna and/or invasive may require approval from the Commonwealth Department of the Environment and Energy (<http://www.environment.gov.au/biodiversity/threatened/permits>). Interaction with such species is controlled by the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and *Environment Protection and Biodiversity Conservation Regulations 2000*.
5. It is the responsibility of the authorisation holder to ensure that they comply with the requirements of all applicable legislation.
6. An Authorisation to take or disturb threatened species does not constitute an animal ethics approval or a licence to use animals for scientific purposes as required under the *Animal Welfare Act 2002*, *Animal Welfare (Scientific Purposes) Regulations 2003*. Enquiries relating to the Animal Welfare Act licences and animal ethics approvals are to be directed to the Western Australian Department of Primary Industries and Regional Development (<https://www.agric.wa.gov.au/animalwelfare>).

  
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Dr Margaret Byrne

Executive Director of Biodiversity and Conservation Science  
AS DELEGATE OF THE MINISTER

DATE: ..22.../..4...../2021

# **Appendix C**

## **Inventory of Vertebrate Fauna Identified by the Desktop Assessment**





| Family         | Scientific Name                             | Common Name                                  | Conservation Status |         | Database Search |      |     | Field Survey | Literature |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|--|---------------------|---------|-----------------|------|-----|--------------|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                |   |  | State               | Federal | NM              | PMST | DBC |              | A          | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| Accipitridae   | <i>Haliastur sphenurus</i>                  | Whistling Kite                               |                     |         | X               |      |     | X            |            |   |   |   |   |   |   |   |   |   | X | X |   |   | X |
| Accipitridae   | <i>Hamirostra isura</i>                     | Square-tailed Kite                           |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Accipitridae   | <i>Hamirostra melanosternon</i>             | Black-breasted Buzzard                       |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Accipitridae   | <i>Hieraetus morphnoides</i>                | Little Eagle                                 |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   | X | X |   |   | X |
| Accipitridae   | <i>Milvus migrans</i>                       | Black Kite                                   |                     |         | X               |      |     |              |            |   |   |   | X |   |   |   |   |   | X | X |   |   |   |
| Accipitridae   | <i>Milvus migrans affinis</i>               |  |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Acrocephalidae | <i>Acrocephalus australis</i>               | Australian Reed Warbler                      |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Aegotheidae    | <i>Aegotheles cristatus</i>                 | Australian Owlet-nightjar                    |                     |         | X               |      |     |              |            |   |   |   | X |   |   |   |   |   | X |   |   |   |   |
| Alaudidae      | <i>Mirafra javanica</i>                     | Horsfield's Bush Lark                        |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   | X | X |   |   | X |
| Alaudidae      | <i>Mirafra javanica horsfieldii</i>         |  |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alcedinidae    | <i>Dacelo leachii</i>                       | Blue-winged Kookaburra                       |                     |         | X               |      |     | X            |            |   |   | X | X |   |   |   |   |   | X |   |   |   | X |
| Alcedinidae    | <i>Dacelo leachii leachii</i>               |  |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alcedinidae    | <i>Todiramphus chloris (check sordidus)</i> | Collared Kingfisher                          |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alcedinidae    | <i>Todiramphus pyrrhopygius</i>             | Red-backed Kingfisher                        |                     |         | X               |      |     |              |            |   | X |   |   | X |   |   |   |   | X |   |   |   |   |
| Alcedinidae    | <i>Todiramphus sanctus</i>                  | Sacred Kingfisher                            |                     |         | X               |      |     |              |            |   |   | X |   |   |   |   |   |   |   |   | X |   |   |
| Alcedinidae    | <i>Todiramphus sordidus pilbara</i>         | Pilbara Collared Kingfisher                  |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Anatidae       | <i>Anas gracilis</i>                        | Grey Teal                                    |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Anatidae       | <i>Anas superciliosa</i>                    | Pacific Black Duck                           |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   | X |   | X |
| Anatidae       | <i>Aythya australis</i>                     | Hardhead                                     |                     |         |                 |      | X   |              |            |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Anatidae       | <i>Chenonetta jubata</i>                    | Australian Wood Duck (Wood Duck, Maned Duck) |                     |         | X               |      |     | X            |            |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Anatidae       | <i>Cygnus atratus</i>                       | Black Swan                                   |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Anatidae       | <i>Dendrocygna eytoni</i>                   | Plumed Whistling Duck                        |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Anatidae       | <i>Malacorhynchus membranaceus</i>          | Pink-eared Duck                              |                     |         | X               |      |     | X            |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Anhingidae     | <i>Anhinga novaehollandiae</i>              | Australasian Darter                          |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Apodidae       | <i>Apus pacificus</i>                       | Pacific Swift (Fork-tailed Swift)            | MI                  |         | X               |      |     | X            |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ardeidae       | <i>Ardea alba modesta</i>                   | Eastern Great Egret                          |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Ardeidae       | <i>Ardea intermedia</i>                     | Intermediate Egret                           |                     |         |                 |      | MA  | X            |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ardeidae       | <i>Ardea pacifica</i>                       | White-necked Heron                           |                     |         | X               |      |     | X            |            |   |   |   | X |   |   |   |   |   | X | X |   |   |   |
| Ardeidae       | <i>Bubulcus coromandus</i>                  | Cattle Egret                                 |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ardeidae       | <i>Butorides striata</i>                    | Striated Heron (Mangrove Heron)              |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ardeidae       | <i>Egretta garzetta</i>                     | Little Egret                                 |                     |         |                 |      | MA  | X            | X          |   |   |   |   |   |   |   |   |   |   |   | X |   | X |
| Ardeidae       | <i>Egretta garzetta immaculata</i>          |  |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ardeidae       | <i>Egretta novaehollandiae</i>              | White-faced Heron                            |                     |         | X               |      |     | X            |            |   |   |   |   |   |   |   |   |   |   |   | X |   | X |
| Ardeidae       | <i>Egretta sacra</i>                        | Eastern Reef Heron (Pacific Reef Heron)      |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ardeidae       | <i>Nycticorax caledonicus</i>               | Nankeen Night Heron (Rufous Night Heron)     |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Artamidae      | <i>Artamus cinereus</i>                     | Black-faced Woodswallow                      |                     |         | X               |      |     | X            |            |   |   |   | X |   |   |   |   |   | X | X |   |   | X |
| Artamidae      | <i>Artamus cyanopterus</i>                  | Dusky Woodswallow                            |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Artamidae      | <i>Artamus leucorhynchus</i>                | White-breasted Woodswallow                   |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Artamidae      | <i>Artamus leucorhynchus leucopygialis</i>  |  |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Artamidae      | <i>Artamus minor</i>                        | Little Woodswallow                           |                     |         | X               |      |     |              |            |   | X |   | X |   |   |   |   |   | X |   |   |   | X |
| Artamidae      | <i>Artamus personatus</i>                   | Masked Woodswallow                           |                     |         | X               |      |     |              |            |   |   |   |   |   |   |   |   |   |   | X | X |   |   |
| Burhinidae     | <i>Burhinus grallarius</i>                  | Bush Stone-curlew (Bush Thick-knee)          |                     |         | X               |      |     |              |            |   |   |   | X |   |   |   |   |   |   |   | X |   |   |

| Family          | Scientific Name                               | Common Name                           | Conservation Status |             | Database Search |      |      | Field Survey | Literature |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---------------------------------------|---------------------|-------------|-----------------|------|------|--------------|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                 |   |                                       | State               | Federal     | NM              | PMST | DBCA |              | A          | B | C | D | E | F | G | H | I | J | K | L | M | N | O |   |   |   |   |   |
| Burhinidae      | <i>Esacus magnirostris</i>                    | Beach Stone-curlew (Beach Thick-knee) |                     | MA          | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cacatuidae      | <i>Cacatua sanguinea</i>                      | Little Corella                        |                     |             | x               |      |      | x            |            |   |   |   |   | x | x |   |   |   |   | x | x |   |   |   |   |   |   |   |
| Cacatuidae      | <i>Eolophus roseicapilla</i>                  | Galah                                 |                     |             | x               | x    |      | x            |            |   |   |   |   | x | x |   |   |   | x | x |   |   |   |   |   |   |   | x |
| Cacatuidae      | <i>Nymphicus hollandicus</i>                  | Cockatiel                             |                     |             | x               |      |      | x            |            | x |   |   |   | x | x |   |   |   | x | x |   |   |   |   |   |   |   | x |
| Campephagidae   | <i>Coracina maxima</i>                        | Ground Cuckoo-shrike                  |                     |             |                 |      |      |              |            |   |   |   |   |   |   |   |   |   |   | x |   |   |   |   |   |   |   |   |
| Campephagidae   | <i>Coracina novaehollandiae</i>               | Black-faced Cuckoo-shrike             |                     |             | x               |      |      | x            |            | x |   |   |   | x | x |   |   |   | x | x |   |   |   |   |   |   |   | x |
| Campephagidae   | <i>Lalage tricolor</i>                        | White-winged Triller                  |                     |             | x               |      |      | x            |            |   |   |   |   |   |   |   |   |   | x |   |   |   |   |   |   |   |   | x |
| Caprimulgidae   | <i>Eurostopodus argus</i>                     | Spotted Nightjar                      |                     |             |                 |      | x    |              | x          |   |   |   |   | x |   |   |   |   |   | x |   |   |   |   |   |   |   | x |
| Casuariidae     | <i>Dromaius novaehollandiae</i>               | Emu                                   |                     |             |                 |      | x    |              | x          |   |   |   |   |   |   |   |   |   |   | x |   |   |   |   |   |   |   | x |
| Charadriidae    | <i>Charadrius leschenaultii</i>               | Greater Sand Plover                   | VU                  | VU, MI & MA | x               |      |      |              |            | x |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | x |
| Charadriidae    | <i>Charadrius leschenaultii leschenaultii</i> |                                       |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Charadriidae    | <i>Charadrius mongolus</i>                    | Lesser Sand Plover                    | EN                  | EN, MI & MA | x               |      |      |              |            |   | x |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Charadriidae    | <i>Charadrius ruficapillus</i>                | Red-capped Plover                     |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | x |
| Charadriidae    | <i>Charadrius veredus</i>                     | Oriental Plover                       | MI                  | MI & MA     | x               |      |      |              |            |   | x |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Charadriidae    | <i>Elseynornis melanops</i>                   | Black-fronted Dotterel                |                     |             | x               |      |      |              | x          |   |   | x |   |   |   |   |   |   |   |   |   |   |   | x |   |   |   | x |
| Charadriidae    | <i>Erythrogonys cinctus</i>                   | Red-kneed Dotterel                    |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   | x |   |   |   |   |
| Charadriidae    | <i>Pluvialis squatarola</i>                   | Grey Plover                           | MI                  | MI & MA     | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Charadriidae    | <i>Vanellus miles</i>                         | Masked Lapwing                        |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Charadriidae    | <i>Vanellus tricolor</i>                      | Banded Lapwing                        |                     |             | x               |      |      |              |            | x |   |   |   |   |   |   |   |   |   |   |   |   | x |   |   |   |   |   |
| Ciconiidae      | <i>Ephippiorhynchus asiaticus australis</i>   |                                       |                     |             |                 |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cinclosomatidae | <i>Cinclosoma marginatum</i>                  | Western Quail-thrush                  |                     |             |                 |      |      |              |            | x |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Columbidae      | <i>Columba livia</i>                          | Domestic Pigeon (Rock Dove)           |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Columbidae      | <i>Geopelia cuneata</i>                       | Diamond Dove                          |                     |             | x               |      |      |              | x          |   |   | x |   |   | x | x |   |   |   |   |   | x |   | x |   |   |   | x |
| Columbidae      | <i>Geopelia humeralis</i>                     | Bar-shouldered Dove                   |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Columbidae      | <i>Geopelia striata</i>                       | Zebra Dove                            |                     |             | x               |      |      |              |            |   |   |   |   |   | x | x |   |   |   |   |   | x | x |   |   |   |   | x |
| Columbidae      | <i>Geopelia striata placida</i>               | Peaceful Dove                         |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Columbidae      | <i>Geophaps plumifera</i>                     | Spinifex Pigeon                       |                     |             | x               |      |      |              | x          |   |   | x |   |   | x | x |   |   |   |   | x |   |   |   |   |   |   | x |
| Columbidae      | <i>Ocyphaps lophotes</i>                      | Crested Pigeon                        |                     |             | x               |      |      |              | x          |   |   |   |   |   | x | x |   |   |   |   | x | x | x |   |   |   |   | x |
| Columbidae      | <i>Phaps chalcoptera</i>                      | Common Bronzewing                     |                     |             | x               |      |      |              | x          |   |   |   |   |   | x | x |   |   |   |   | x |   |   |   |   |   |   |   |
| Columbidae      | <i>Phaps histrionica</i>                      | Flock Bronzewing (Flock Pigeon)       |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Corvidae        | <i>Corvus bennetti</i>                        | Little Crow                           |                     |             | x               |      |      |              | x          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | x |   |   | x |
| Corvidae        | <i>Corvus coronoides</i>                      | Australian Raven                      |                     |             |                 |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Corvidae        | <i>Corvus orru</i>                            | Torresian Crow                        |                     |             | x               |      |      |              | x          |   |   | x |   |   | x | x |   |   |   |   | x | x |   |   |   |   |   | x |
| Cracticidae     | <i>Cracticus nigrogularis</i>                 | Pied Butcherbird                      |                     |             | x               |      |      |              | x          |   |   |   |   | x | x | x |   |   |   |   | x |   |   |   |   |   |   | x |
| Cracticidae     | <i>Cracticus torquatus</i>                    | Grey Butcherbird                      |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | x |
| Cracticidae     | <i>Gymnorhina tibicen</i>                     | Australian Magpie                     |                     |             | x               |      |      |              |            |   |   |   |   |   | x | x | x |   |   |   |   | x | x |   |   |   |   |   |
| Cuculidae       | <i>Centropus phasianinus</i>                  | Pheasant Coucal                       |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cuculidae       | <i>Chalcites basalis</i>                      | Horsfield's Bronze Cuckoo             |                     |             | x               |      |      |              | x          |   |   |   |   |   | x | x |   |   |   |   |   |   |   |   |   |   |   |   |
| Cuculidae       | <i>Chalcites osculans</i>                     | Black-eared Cuckoo                    |                     |             | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cuculidae       | <i>Heteroscenes pallidus</i>                  | Pallid Cuckoo                         |                     |             | x               |      |      |              |            |   |   |   |   |   |   | x |   |   |   |   |   |   |   |   |   |   |   |   |
| Dicaeidae       | <i>Dicaeum hirundinaceum</i>                  | Mistletoebird                         |                     |             |                 |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | x |   | x |   |
| Estrildidae     | <i>Emblema pictum</i>                         | Painted Finch                         |                     |             | x               |      |      |              | x          |   |   |   |   |   | x |   |   |   |   |   |   |   |   |   |   | x |   | x |









| Family            | Scientific Name                         | Common Name                         | Conservation Status     |                              | Database Search |      |     | Field Survey | Literature |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------|---|-------------------------------------|-------------------------|------------------------------|-----------------|------|-----|--------------|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                   |   |                                     | State                   | Federal                      | NM              | PMST | DBC |              | A          | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| Scolopacidae      | <i>Limosa lapponica</i>                 | Bar-tailed Godwit                   | MI (CR at subsp. level) | MI & MA (CR at subsp. level) | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Scolopacidae      | <i>Limosa lapponica menzbieri</i>       |                                     | CR (MI at sp. level)    | CR (MI & MA at sp. level)    | x               | x    | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Scolopacidae      | <i>Limosa limosa</i>                    | Black-tailed Godwit                 | MI                      | MI & MA                      |                 |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Scolopacidae      | <i>Numenius madagascariensis</i>        | Far Eastern Curlew (Eastern Curlew) | CR                      | CR, MI & MA                  | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Scolopacidae      | <i>Numenius minutus</i>                 | Little Curlew                       | MI                      | MI & MA                      | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Scolopacidae      | <i>Numenius phaeopus</i>                | Whimbrel                            | MI                      | MI & MA                      | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Scolopacidae      | <i>Tringa brevipes</i>                  | Grey-tailed Tattler                 | MI & P4                 | MI & MA                      | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Scolopacidae      | <i>Tringa glareola</i>                  | Wood Sandpiper                      | MI                      | MI & MA                      | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   |
| Scolopacidae      | <i>Tringa nebularia</i>                 | Common Greenshank                   | MI                      | MI & MA                      | x               | x    | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   |
| Strigidae         | <i>Ninox boobook</i>                    | Boobook Owl                         |                         |                              |                 |      |     |              |            | x |   |   | x |   |   |   |   |   |   |   |   |   |   |
| Strigidae         | <i>Ninox connivens</i>                  | Barking Owl                         |                         |                              | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sturnidae         | <i>Acridotheres tristis</i>             | Common Myna                         |                         |                              | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Threskiornithidae | <i>Platalea flavipes</i>                | Yellow-billed Spoonbill             |                         |                              | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Threskiornithidae | <i>Platalea regia</i>                   | Royal Spoonbill                     |                         |                              | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Threskiornithidae | <i>Plegadis falcinellus</i>             | Glossy Ibis                         | MI                      |                              | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Threskiornithidae | <i>Threskiornis spinicollis</i>         | Straw-necked Ibis                   |                         |                              |                 | x    |     | x            |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Turnicidae        | <i>Turnix pyrrhotorax</i>               | Red-chested Buttonquail             |                         |                              |                 | x    |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Turnicidae        | <i>Turnix velox</i>                     | Little Buttonquail                  |                         |                              | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   | x | x | x | x |
| Tytonidae         | <i>Tyto javanica</i>                    | Barn Owl                            | NOT ON WA LIST          |                              | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Zosteropidae      | <i>Zosterops lateralis</i>              | Grey-breasted White-eye (Silvereye) |                         |                              |                 | x    |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Zosteropidae      | <i>Zosterops luteus</i>                 | Yellow White-eye (Canary White-eye) |                         |                              | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| <b>MAMMALS</b>    |   |                                     |                         |                              |                 |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Balaenidae        | <i>Eubalaena australis</i>              | Southern Right Whale                | VU                      | EN & MI                      | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Balaenopteridae   | <i>Balaenoptera borealis schlegelii</i> | Sei Whale                           | EN                      | VU & MI                      | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Balaenopteridae   | <i>Balaenoptera musculus</i>            | Blue Whale                          | EN                      | EN & MI                      |                 | x    |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Balaenopteridae   | <i>Balaenoptera physalus quoyi</i>      | Fin Whale                           | EN                      | VU & MI                      |                 | x    |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Balaenopteridae   | <i>Megaptera novaeangliae australis</i> | Humpback Whale                      | CD                      | VU & MI                      | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bovidae           | <i>Bos primigenius taurus*</i>          | European Cattle                     |                         |                              | x               |      |     | x            |            |   |   |   |   |   |   |   |   |   |   | x | x |   |   |
| Bovidae           | <i>Capra aegagrus hircus*</i>           | Goat                                |                         |                              |                 | x    |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bovidae           | <i>Ovis aries*</i>                      | Sheep                               |                         |                              |                 |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   |
| Camelidae         | <i>Camelus dromedarius</i>              | Dromedary, Camel                    |                         |                              |                 |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   |
| Canidae           | <i>Canis familiaris dingo</i>           | Dingo                               |                         |                              |                 |      |     | x            |            |   |   | x | x | x |   |   |   |   |   | x | x | x |   |
| Canidae           | <i>Canis familiaris familiaris*</i>     | Dog                                 |                         |                              |                 | x    |     |              |            |   | x |   |   |   |   |   |   |   |   |   | x |   |   |
| Canidae           | <i>Vulpes vulpes*</i>                   | Red Fox                             |                         |                              | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Dasyuridae        | <i>Dasykaluta rosamondae</i>            | Kaluta                              |                         |                              | x               |      |     | x            |            |   |   | x | x |   |   |   |   |   |   | x |   | x |   |
| Dasyuridae        | <i>Dasyurus hallucatus</i>              | Northern Quoll                      | EN                      | EN                           | x               |      | x   | x            |            | x | x | x | x | x | x |   |   |   |   |   |   | x |   |
| Dasyuridae        | <i>Ningai timealeyi</i>                 | Pilbara Ningai                      |                         |                              | x               |      |     | x            |            |   |   | x | x |   |   |   |   |   |   | x |   | x |   |
| Dasyuridae        | <i>Planigale ingrami</i>                | Long-tailed Planigale               |                         |                              | x               |      |     |              |            |   |   | x | x |   |   |   |   |   |   |   |   |   |   |
| Dasyuridae        | <i>Planigale maculata</i>               | Common Planigale                    |                         |                              |                 |      |     | x            |            |   |   |   |   |   |   |   |   |   |   | x |   |   |   |





| Family           | Scientific Name                         | Common Name                        | Conservation Status |             | Database Search |      |     | Field Survey | Literature |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------|---|------------------------------------|---------------------|-------------|-----------------|------|-----|--------------|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                  |   |                                    | State               | Federal     | NM              | PMST | DBC |              | A          | B | C | D | E | F | G | H | I | J | K | L | M | N | O |   |
| Agamidae         | <i>Ctenophorus caudicinctus</i>         | Western Ring-tailed Dragon         |                     |             | x               |      |     | x            |            | x |   |   |   | x | x |   |   |   |   | x |   |   |   | x |
| Agamidae         | <i>Ctenophorus femoralis</i>            | Dune Dragon                        |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   | x |
| Agamidae         | <i>Ctenophorus isolepis isolepis</i>    | Central Military Dragon            |                     |             | x               |      |     | x            |            | x |   |   |   |   |   |   |   |   |   | x |   | x |   | x |
| Agamidae         | <i>Ctenophorus nuchalis</i>             | Central Netted Dragon              |                     |             | x               |      |     | x            |            |   |   |   |   | x |   |   |   |   |   |   | x |   |   | x |
| Agamidae         | <i>Ctenophorus reticulatus</i>          | Western Netted Dragon              |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   | x |   |   |   |
| Agamidae         | <i>Ctenophorus rubens</i>               | Red Dragon                         |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Agamidae         | <i>Ctenophorus rufescens</i>            | Red Rock Dragon                    |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Agamidae         | <i>Diporiphora adductus</i>             | Carnarvon Dragon                   |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Agamidae         | <i>Diporiphora paraconvergens</i>       | Grey-striped Western Desert Dragon |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Agamidae         | <i>Diporiphora valens</i>               | Southern Pilbara Tree Dragon       |                     |             | x               |      |     |              |            |   |   |   |   | x |   |   |   |   |   |   | x |   |   |   |
| Agamidae         | <i>Gowidon longirostris</i>             | Long-nosed Dragon                  |                     |             | x               |      |     | x            |            | x |   |   |   | x |   |   |   |   |   |   | x | x |   | x |
| Agamidae         | <i>Lophognathus gilberti</i>            | Top End Ta-Ta Dragon               |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Agamidae         | <i>Pogona minor minor</i>               | Western Bearded Dragon             |                     |             | x               |      |     | x            |            | x |   |   |   |   |   |   |   |   |   |   | x | x |   | x |
| Agamidae         | <i>Tympanocryptis cephalus</i>          | Coastal pebble-mimic dragons       |                     |             |                 |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Carphodactylidae | <i>Nephrurus levis</i>                  |                                    |                     |             |                 |      |     | x            |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carphodactylidae | <i>Nephrurus levis occidentalis</i>     |                                    |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   | x |
| Carphodactylidae | <i>Nephrurus levis pilbarensis</i>      |                                    |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carphodactylidae | <i>Nephrurus wheeleri</i>               | Southern Banded Knob-tailed Gecko  |                     |             | x               |      |     |              |            | x |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Carphodactylidae | <i>Underwoodisaurus seorsus</i>         | Pilbara Barking Gecko              | P2                  |             |                 |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Cheloniidae      | <i>Caretta caretta</i>                  | Loggerhead Turtle                  | EN                  | EN, MI & MA |                 |      | x   | x            |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cheloniidae      | <i>Chelonia mydas</i>                   | Green Turtle                       | VU                  | VU, MI & MA | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cheloniidae      | <i>Eretmochelys imbricata</i>           | Hawksbill Turtle                   | VU                  | VU, MI & MA | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cheloniidae      | <i>Natator depressus</i>                | Flatback Turtle                    | VU                  | VU, MI & MA | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Crocodylidae     | <i>Crocodylus porosus</i>               | Saltwater Crocodile                | OS                  | MI & MA     | x               |      | x   |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Dermochelyidae   | <i>Dermochelys coriacea</i>             | Leatherback Turtle                 | VU                  | EN, MI & MA | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Diplodactylidae  | <i>Diplodactylus bilybara</i>           | Western Fat-tailed Gecko           |                     |             | x               |      |     | x            |            |   |   |   |   | x |   |   |   |   |   |   |   |   |   |   |
| Diplodactylidae  | <i>Diplodactylus conspicillatus</i>     | Variable Fat-tailed Gecko          |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   | x |   |   | x |
| Diplodactylidae  | <i>Diplodactylus galaxias</i>           | Northern Pilbara Beak-faced Gecko  |                     |             |                 |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   | x |   |   |   |
| Diplodactylidae  | <i>Diplodactylus pulcher</i>            |                                    |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Diplodactylidae  | <i>Diplodactylus savagei</i>            | Southern Pilbara Beak-faced Gecko  |                     |             | x               |      |     |              |            |   | x |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Diplodactylidae  | <i>Lucasium stenodactylus</i>           |                                    |                     |             |                 |      |     | x            |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Diplodactylidae  | <i>Lucasium wombeyi</i>                 |                                    |                     |             | x               |      |     | x            |            |   |   |   |   | x |   |   |   |   |   |   | x |   |   | x |
| Diplodactylidae  | <i>Lucasium woodwardi</i>               |                                    |                     |             | x               |      |     |              |            |   | x |   |   | x |   |   |   |   |   |   | x | x |   | x |
| Diplodactylidae  | <i>Oedura fimbria</i>                   | Western Marbled Velvet Gecko       |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Diplodactylidae  | <i>Oedura marmorata</i>                 | Marbled Velvet Gecko               |                     |             |                 |      |     |              |            | x |   |   |   | x |   |   |   |   |   |   |   | x |   |   |
| Diplodactylidae  | <i>Rhynchoedura ornata</i>              | Western Beaked Gecko               |                     |             | x               |      |     | x            |            |   |   |   |   | x |   |   |   |   |   |   |   | x |   | x |
| Diplodactylidae  | <i>Strophurus elderi</i>                |                                    |                     |             | x               |      |     | x            |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Diplodactylidae  | <i>Strophurus jeanae</i>                |                                    |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Diplodactylidae  | <i>Strophurus spinigerus spinigerus</i> |                                    |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Diplodactylidae  | <i>Strophurus strophurus</i>            |                                    |                     |             | x               |      |     |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x |   | x |







| Family      | Scientific Name                     | Common Name                  | Conservation Status |         | Database Search |      |      | Field Survey | Literature |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|-------------------------------------|------------------------------|---------------------|---------|-----------------|------|------|--------------|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|             |                                     |                              | State               | Federal | NM              | PMST | DBCA |              | A          | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| Scincidae   | <i>Morethia ruficauda ruficauda</i> |                              |                     |         | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Scincidae   | <i>Notoscincus butleri</i>          |                              | P4                  |         |                 |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Scincidae   | <i>Notoscincus ornatus ornatus</i>  |                              |                     |         | x               |      |      | x            |            |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Scincidae   | <i>Proablepharus reginae</i>        |                              |                     |         |                 |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Scincidae   | <i>Tiliqua multifasciata</i>        | Central Blue-tongue          |                     |         | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   | x | x |   |
| Typhlopidae | <i>Anilius ammodytes</i>            |                              |                     |         |                 |      |      | x            |            |   |   |   |   |   |   |   |   |   |   |   |   |   | x |
| Typhlopidae | <i>Anilius ganei</i>                |                              | P1                  |         |                 |      |      |              |            |   |   |   |   | x |   |   |   |   |   |   | x |   |   |
| Typhlopidae | <i>Anilius grypus</i>               |                              |                     |         |                 |      |      |              |            |   |   |   |   | x |   |   |   |   |   |   |   |   | x |
| Typhlopidae | <i>Anilius hamatus</i>              |                              |                     |         |                 |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   | x |
| Typhlopidae | <i>Indotyphlops braminus</i>        |                              |                     |         | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Varanidae   | <i>Varanus acanthurus</i>           | Spiny-tailed Goanna          |                     |         | x               |      |      | x            |            | x |   |   |   | x | x |   |   |   |   |   | x |   |   |
| Varanidae   | <i>Varanus brevicauda</i>           | Short-tailed Pygmy Goanna    |                     |         | x               |      |      | x            |            |   |   |   |   |   |   |   |   |   |   |   | x |   | x |
| Varanidae   | <i>Varanus bushi</i>                | Pilbara Mulga Goanna         |                     |         | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Varanidae   | <i>Varanus caudolineatus</i>        |                              |                     |         | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   | x |   |   |
| Varanidae   | <i>Varanus eremius</i>              | Pygmy Desert Goanna          |                     |         | x               |      |      | x            |            |   |   |   |   |   |   |   |   |   |   |   | x |   | x |
| Varanidae   | <i>Varanus giganteus</i>            | Perentie                     |                     |         | x               |      |      | x            |            | x |   | x |   |   |   |   |   |   |   |   |   |   |   |
| Varanidae   | <i>Varanus gouldii</i>              | Bungarra or Sand Goanna      |                     |         | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   | x | x |
| Varanidae   | <i>Varanus panoptes panoptes</i>    |                              |                     |         | x               |      |      |              |            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Varanidae   | <i>Varanus panoptes rubidus</i>     |                              |                     |         | x               |      |      | x            |            | x |   | x |   |   |   |   |   |   |   |   | x | x |   |
| Varanidae   | <i>Varanus pilbarensis</i>          | Northern Pilbara Rock Goanna |                     |         | x               |      |      |              |            | x |   | x | x |   |   |   |   |   |   |   |   |   |   |
| Varanidae   | <i>Varanus tristis</i>              | Racehorse Goanna             |                     |         | x               |      |      | x            |            | x |   | x |   |   |   |   |   |   |   |   | x |   |   |

# **Appendix D**

## **Habitat Assessments**



### KBH02 - Habitat assessment

|                          |   |  |  |
|--------------------------|---|--|--|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |  |
| <b>Date</b>              | 7/06/2020                                 | <b>Personnel</b>                             | EW   |
| <b>Easting</b>           | 382362                                    | <b>Northing</b>                              | 7572097  |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |  |
| Landform                 | Plain                                     | Rock type/s                                  | Ironstone, Quartz  |
| Soil type                | Sandy clay                                | Surface stone cover                          | 50 - 75%   |
| Soil colour              | Orange, Brown                             | Surface stone size classes present           | Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |  |
| Quality                  | High quality                              | Water Source                                 | Absent   |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks, Leaf litter  |
| Disturbance              |   |  |  |
| Introduced fauna         | Cattle                                    |  |  |
| <b>Vegetation</b>        |   |  |  |
| Upper stratum            | Absent                                    |  |  |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia   |
| Ground stratum           | Mid (0.5-1 m)                             | Open hummock grassland (20-50%)              | Triodia  |



Fulcrum photo ID

74453d26-2021-4c2f-ada6-33ba2b7855a7

### KBH03 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 7/06/2020                                 | <b>Personnel</b>                         | EW  |
| <b>Easting</b>           | 382005                                    | <b>Northing</b>                          | 7572317   |
| <b>Landform and soil</b> |   | <b>Rock</b>                              |   |
| Landform                 | Drainage line                             | Rock type/s                              |   |
| Soil type                | Clay                                      | Surface stone cover                      | <5%   |
| Soil colour              | Orange, Brown                             | Surface stone size classes present       | Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm)                                  |
| <b>Condition</b>         |   | <b>Habitat Features</b>                  |   |
| Quality                  | Very good                                 | Water Source                             | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                            | Tree hollows, Hummocks, Leaf litter, Logs > 10 cm, Peeling bark, Woody debris |
| Disturbance              | Overgrazing                               |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Open woodland (0.25-20%)                 | Corymbia  |
| Mid stratum              | Tall (>2 m)                               | Open shrubland and/or heathland (20-50%) | Acacia  |
| Ground stratum           | Mid (0.5-1 m)                             | Hummock grassland (50-80%)               | Triodia   |



Fulcrum photo ID

02963f34-8266-4f46-9072-af7ec1a39c73

### KBH04 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 7/06/2020                                 | <b>Personnel</b>                         | EW  |
| <b>Easting</b>           | 380664                                    | <b>Northing</b>                          | 7571847   |
| <b>Landform and soil</b> |   | <b>Rock</b>                              |   |
| Landform                 | Drainage line                             | Rock type/s                              |   |
| Soil type                | Sandy loam                                | Surface stone cover                      | <5%   |
| Soil colour              | Orange,Brown                              | Surface stone size classes present       | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm)                   |
| <b>Condition</b>         |   | <b>Habitat Features</b>                  |   |
| Quality                  | Very good                                 | Water Source                             | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                            | Hummocks,Leaf litter,Peeling bark,Termite mounds,Woody debris |
| Disturbance              | Overgrazing                               |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Absent                                    |  |   |
| Mid stratum              | Tall (>2 m)                               | Open shrubland and/or heathland (20-50%) | Acacia  |
| Ground stratum           | Mid (0.5-1 m)                             | Open hummock grassland (20-50%)          | Triodia   |



Fulcrum photo ID

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### KBH06 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 7/06/2020                                 | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 379227                                    | <b>Northing</b>                              | 7572369   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Plain                                     | Rock type/s                                  | Ironstone,Quartz  |
| Soil type                | Sandy loam                                | Surface stone cover                          | 25 - 50%  |
| Soil colour              | Brown                                     | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm),Small Rocks (6 - 20 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | High quality                              | Water Source                                 | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks,Leaf litter,Termite mounds,Woody debris                                      |
| Disturbance              |   |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Absent                                    |  |   |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia  |
| Ground stratum           | Low (<0.5 m)                              | Open hummock grassland (20-50%)              | Triodia   |



Fulcrum photo ID

475d88ae-f9e5-48d5-95e7-900a2ab29a5b



### KBH07 - Habitat assessment

|                          |   |  |  |
|--------------------------|---|--|--|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |  |
| <b>Date</b>              | 7/06/2020                                 | <b>Personnel</b>                             | EW   |
| <b>Easting</b>           | 377555                                    | <b>Northing</b>                              | 7572498  |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |  |
| Landform                 | Plain                                     | Rock type/s                                  | Ironstone, Quartz  |
| Soil type                | Sandy loam                                | Surface stone cover                          | 25 - 50%   |
| Soil colour              | Brown                                     | Surface stone size classes present           | Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |  |
| Quality                  | High quality                              | Water Source                                 | Absent   |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks, Leaf litter, Peeling bark, Woody debris  |
| Disturbance              |   |  |  |
| Introduced fauna         |   |  |  |
| <b>Vegetation</b>        |   |  |  |
| Upper stratum            | Absent                                    |  |  |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia   |
| Ground stratum           | Low (<0.5 m)                              | Open hummock grassland (20-50%)              | Triodia  |



Fulcrum photo ID

bec6fe00-eb55-4a0a-9837-a8255cfb566d

### KBH08 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 8/06/2020                                 | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 375959                                    | <b>Northing</b>                              | 7572686   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Mesa                                      | Rock type/s                                  | Ironstone   |
| Soil type                | Rock                                      | Surface stone cover                          | 75 - 100%   |
| Soil colour              | Red                                       | Surface stone size classes present           | Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm), Outcropping |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | High quality                              | Water Source                                 | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Caves, Exfoliating rock, Hummocks, Leaf litter, Peeling bark, Rock crevices, Woody debris             |
| Disturbance              |   |  |   |
| Introduced fauna         |   |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Open woodland (0.25-20%)                     | Ficus, Corymbia   |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia  |
| Ground stratum           | Low (<0.5 m)                              | Sparse hummock grassland (0.25-20%)          | Triodia   |



Fulcrum photo ID

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### KBH09 - Habitat assessment

|                          |   |  |  |
|--------------------------|---|--|--|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |  |
| <b>Date</b>              | 8/06/2020                                 | <b>Personnel</b>                             | EW   |
| <b>Easting</b>           | 376215                                    | <b>Northing</b>                              | 7572669  |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |  |
| Landform                 | Breakaway                                 | Rock type/s                                  | Ironstone  |
| Soil type                | Sandy clay                                | Surface stone cover                          | 75 - 100%  |
| Soil colour              | Red,Brown                                 | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm),Small Rocks (6 - 20 cm),Rocks (20 - 60 cm),Big Rocks (60 cm - 2 m),Boulders (>2 m),Outcropping |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |  |
| Quality                  | High quality                              | Water Source                                 | Absent   |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Caves,Exfoliating rock,Hummocks,Leaf litter,Peeling bark,Rock crevices,Woody debris  |
| Disturbance              |   |  |  |
| Introduced fauna         |   |  |  |
| <b>Vegetation</b>        |   |  |  |
| Upper stratum            | Low (<10 m)                               | Open woodland (0.25-20%)                     | Ficus  |
| Mid stratum              | Low (0.5-1 m)                             | Sparse shrubland and/or heathland (0.25-50%) |  |
| Ground stratum           | Mid (0.5-1 m)                             | Open hummock grassland (20-50%)              | Triodia  |



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### KBH10 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 8/06/2020                                 | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 373343                                    | <b>Northing</b>                              | 7573320   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Plain                                     | Rock type/s                                  | Ironstone,Quartz  |
| Soil type                | Sandy loam                                | Surface stone cover                          | 5 - 25%   |
| Soil colour              | Orange                                    | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | Very good                                 | Water Source                                 | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris   |
| Disturbance              | Overgrazing                               |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Absent                                    |  |   |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia  |
| Ground stratum           | Mid (0.5-1 m)                             | Sparse hummock grassland (0.25-20%)          | Triodia   |



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### KBH11 - Habitat assessment

|                          |   |  |  |
|--------------------------|---|--|--|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |  |
| <b>Date</b>              | 8/06/2020                                 | <b>Personnel</b>                             | EW   |
| <b>Easting</b>           | 370510                                    | <b>Northing</b>                              | 7573994  |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |  |
| Landform                 | Drainage line                             | Rock type/s                                  |  |
| Soil type                | Sandy clay                                | Surface stone cover                          | <5%  |
| Soil colour              | Orange,Brown                              | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm)    |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |  |
| Quality                  | Good                                      | Water Source                                 | Present  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Tree hollows,Hummocks,Leaf litter,Woody debris |
| Disturbance              | Erosion,Overgrazing                       |  |  |
| Introduced fauna         | Cattle                                    |  |  |
| <b>Vegetation</b>        |   |  |  |
| Upper stratum            | Low (<10 m)                               | Open woodland (0.25-20%)                     | Corymbia and Eucalyptus                        |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia   |
| Ground stratum           | Mid (0.5-1 m)                             | Open hummock grassland (20-50%)              | Triodia  |



Fulcrum photo ID

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### KBH13 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 9/06/2020                                 | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 326029                                    | <b>Northing</b>                              | 7590044   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Plain                                     | Rock type/s                                  |   |
| Soil type                | Sand                                      | Surface stone cover                          | <5%   |
| Soil colour              | Orange,Brown                              | Surface stone size classes present           | Pebbles (<0.6 cm)   |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | Very good                                 | Water Source                                 | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks,Leaf litter,Peeling bark,Termite mounds,Woody debris |
| Disturbance              |   |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Open mallee woodland (0.25-20%)              | Mallee Eucalyptus   |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia and Hakea  |
| Ground stratum           | Low (>0.5 m)                              | Open hummock grassland (20-50%)              | Triodia   |



Fulcrum photo ID

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### KBH14 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 9/06/2020                                 | <b>Personnel</b>                         | EW  |
| <b>Easting</b>           | 337338                                    | <b>Northing</b>                          | 7587877   |
| <b>Landform and soil</b> |   | <b>Rock</b>                              |   |
| Landform                 | River                                     | Rock type/s                              |   |
| Soil type                | Sandy clay                                | Surface stone cover                      | <5%   |
| Soil colour              | Brown                                     | Surface stone size classes present       | Pebbles (<0.6 cm)   |
| <b>Condition</b>         |   | <b>Habitat Features</b>                  |   |
| Quality                  | Very good                                 | Water Source                             | Present   |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                            | Tree hollows, Hummocks, Leaf litter, Logs > 10 cm, Peeling bark, Woody debris |
| Disturbance              | Overgrazing                               |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Mid (10-30 m)                             | Woodland (20-50%)                        | Eucalyptus and Corymbia   |
| Mid stratum              | Tall (>2 m)                               | Open shrubland and/or heathland (20-50%) | Acacia  |
| Ground stratum           | Low (<0.5 m)                              | Sparse tussock grassland (0.25-20%)      |   |



Fulcrum photo ID

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### KBH15 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 9/06/2020                                 | <b>Personnel</b>                         | EW  |
| <b>Easting</b>           | 344636                                    | <b>Northing</b>                          | 7586615   |
| <b>Landform and soil</b> |   | <b>Rock</b>                              |   |
| Landform                 | Plain                                     | Rock type/s                              |   |
| Soil type                | Sandy clay                                | Surface stone cover                      | <5%   |
| Soil colour              | Red, Brown                                | Surface stone size classes present       | Pebbles (<0.6 cm)   |
| <b>Condition</b>         |   | <b>Habitat Features</b>                  |   |
| Quality                  | Very good                                 | Water Source                             | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                            | Hummocks, Leaf litter, Peeling bark, Termite mounds, Woody debris |
| Disturbance              |   |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Open woodland (0.25-20%)                 | Corymbia  |
| Mid stratum              | Tall (>2 m)                               | Open shrubland and/or heathland (20-50%) | Acacia and Hakea  |
| Ground stratum           | Low (<0.5 m)                              | Hummock grassland (50-80%)               | Triodia   |



Fulcrum photo ID

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### KBH16 - Habitat assessment

|                          |   |                                     |   |
|--------------------------|---|-------------------------------------|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |                                     |   |
| <b>Date</b>              | 9/06/2020                                 | <b>Personnel</b>                    | EW  |
| <b>Easting</b>           | 355040                                    | <b>Northing</b>                     | 7582374   |
| <b>Landform and soil</b> |   | <b>Rock</b>                         |   |
| Landform                 | Plain                                     | Rock type/s                         |   |
| Soil type                | Sandy clay                                | Surface stone cover                 | <5%   |
| Soil colour              | Red,Brown                                 | Surface stone size classes present  | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>             |   |
| Quality                  | Good                                      | Water Source                        | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                       | Hummocks,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris   |
| Disturbance              | Erosion,Overgrazing                       |                                     |   |
| Introduced fauna         | Cattle                                    |                                     |   |
| <b>Vegetation</b>        |   |                                     |   |
| Upper stratum            | Low (<10 m)                               | Woodland (20-50%)                   | Mulga   |
| Mid stratum              | Absent                                    |                                     |   |
| Ground stratum           | Low (<0.5 m)                              | Sparse hummock grassland (0.25-20%) | Triodia   |



Fulcrum photo ID

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### KBH17 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 9/06/2020                                 | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 354863                                    | <b>Northing</b>                              | 7582518   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Drainage line                             | Rock type/s                                  |   |
| Soil type                | Sandy clay                                | Surface stone cover                          | <5%   |
| Soil colour              | Orange,Red                                | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | Disturbed                                 | Water Source                                 | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris   |
| Disturbance              | Erosion,Overgrazing                       |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Open woodland (0.25-20%)                     | Eucalyptus and Corymbia                                       |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia  |
| Ground stratum           | Low (<0.5 m)                              | Sparse hummock grassland (0.25-20%)          | Triodia   |



Fulcrum photo ID

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### KBH19 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 10/06/2020                                | <b>Personnel</b>                         | EW  |
| <b>Easting</b>           | 358019                                    | <b>Northing</b>                          | 7579411   |
| <b>Landform and soil</b> |   | <b>Rock</b>                              |   |
| Landform                 | Plain                                     | Rock type/s                              |   |
| Soil type                | Sandy loam                                | Surface stone cover                      | <5%   |
| Soil colour              | Red,Brown                                 | Surface stone size classes present       | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                  |   |
| Quality                  | Good                                      | Water Source                             | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                            | Hummocks,Leaf litter,Logs > 10 cm,Woody debris                |
| Disturbance              | Overgrazing                               |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Absent                                    |  |   |
| Mid stratum              | Tall (>2 m)                               | Open shrubland and/or heathland (20-50%) | Acacia  |
| Ground stratum           | Mid (0.5-1 m)                             | Hummock grassland (50-80%)               | Triodia   |



Fulcrum photo ID

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### KBH20 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 10/06/2020                                | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 362879                                    | <b>Northing</b>                              | 7577219   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Plain                                     | Rock type/s                                  |   |
| Soil type                | Sandy loam                                | Surface stone cover                          | <5%   |
| Soil colour              | Red,Brown                                 | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | Good                                      | Water Source                                 | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks,Leaf litter,Peeling bark,Termite mounds,Woody debris |
| Disturbance              | Overgrazing                               |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Woodland (20-50%)                            | Corymbia and Acacia   |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia  |
| Ground stratum           | Mid (0.5-1 m)                             | Hummock grassland (50-80%)                   | Triodia   |



Fulcrum photo ID

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### KBH22 - Habitat assessment

|                          |   |                                     |   |
|--------------------------|---|-------------------------------------|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |                                     |   |
| <b>Date</b>              | 10/06/2020                                | <b>Personnel</b>                    | EW  |
| <b>Easting</b>           | 363698                                    | <b>Northing</b>                     | 7577011   |
| <b>Landform and soil</b> |   | <b>Rock</b>                         |   |
| Landform                 | Drainage line                             | Rock type/s                         |   |
| Soil type                | Sandy loam                                | Surface stone cover                 | 5 - 25%   |
| Soil colour              | Red,Brown                                 | Surface stone size classes present  | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm)                           |
| <b>Condition</b>         |   | <b>Habitat Features</b>             |   |
| Quality                  | Good                                      | Water Source                        | Present   |
| Fire History             | Recently burnt (<1 year)                  | Microhabitats                       | Tree hollows,Hummocks,Leaf litter,Logs > 10 cm,Peeling bark,Termite mounds,Woody debris |
| Disturbance              |   |                                     |   |
| Introduced fauna         | Cattle                                    |                                     |   |
| <b>Vegetation</b>        |   |                                     |   |
| Upper stratum            | Low (<10 m)                               | Open woodland (0.25-20%)            | Eucalyptus and Corymbia   |
| Mid stratum              | Mid (1-2 m)                               | Open shrubland/heathland (20-50%)   | Grevillea   |
| Ground stratum           | Mid (0.5-1 m)                             | Sparse hummock grassland (0.25-20%) | Triodia   |



Fulcrum photo ID

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### KBH23 - Habitat assessment

|                          |   |  |  |
|--------------------------|---|--|--|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |  |
| <b>Date</b>              | 10/06/2020                                | <b>Personnel</b>                             | EW   |
| <b>Easting</b>           | 366268                                    | <b>Northing</b>                              | 7575480  |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |  |
| Landform                 | Outcrop/breakaway                         | Rock type/s                                  | Ironstone  |
| Soil type                | Rock                                      | Surface stone cover                          | 50 - 75%   |
| Soil colour              | Red,Brown                                 | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm),Small Rocks (6 - 20 cm),Rocks (20 - 60 cm),Big Rocks (60 cm - 2 m),Outcropping |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |  |
| Quality                  | Very good                                 | Water Source                                 | Absent   |
| Fire History             | Recently burnt (<1 year)                  | Microhabitats                                | Hummocks,Leaf litter,Peeling bark,Rock crevices,Woody debris   |
| Disturbance              |   |  |  |
| Introduced fauna         |   |  |  |
| <b>Vegetation</b>        |   |  |  |
| Upper stratum            | Absent                                    |  |  |
| Mid stratum              | Tall (>2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Grevillea, Tephrosia and Acacia  |
| Ground stratum           | Low (<0.5 m)                              | Open hummock grassland (20-50%)              | Triodia  |



Fulcrum photo ID

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### KBH24 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 10/06/2020                                | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 366501                                    | <b>Northing</b>                              | 7575620   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Drainage line                             | Rock type/s                                  |   |
| Soil type                | Sandy loam                                | Surface stone cover                          | 5 - 25%   |
| Soil colour              | Red,Brown                                 | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm),Small Rocks (6 - 20 cm)   |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | Good                                      | Water Source                                 | Absent  |
| Fire History             | Burnt (1-5 years)                         | Microhabitats                                | Tree hollows,Hummocks,Leaf litter,Logs > 10 cm,Peeling bark,Termite mounds,Woody debris |
| Disturbance              | Overgrazing                               |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Woodland (20-50%)                            | Corymbia  |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia and Hakea  |
| Ground stratum           | Low (<0.5 m)                              | Sparse hummock grassland (0.25-20%)          | Triodia   |



Fulcrum photo ID

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### KBH25 - Habitat assessment

|                          |   |  |                          |
|--------------------------|---|--|--------------------------|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |                          |
| <b>Date</b>              | 11/06/2020                                | <b>Personnel</b>                                 | EW                       |
| <b>Easting</b>           | 304680                                    | <b>Northing</b>                                  | 7590073                  |
| <b>Landform and soil</b> |   | <b>Rock</b>                                      |                          |
| Landform                 | Alluvial plain                            | Rock type/s                                      |                          |
| Soil type                | Clay                                      | Surface stone cover                              | <5%                      |
| Soil colour              | Orange                                    | Surface stone size classes present               | Pebbles (<0.6 cm)        |
| <b>Condition</b>         |   | <b>Habitat Features</b>                          |                          |
| Quality                  | Disturbed                                 | Water Source                                     | Absent                   |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                    | Leaf litter,Woody debris |
| Disturbance              | Erosion,Overgrazing                       |  |                          |
| Introduced fauna         | Cattle                                    |  |                          |
| <b>Vegetation</b>        |   |  |                          |
| Upper stratum            | Absent                                    |  |                          |
| Mid stratum              | Low (0.5-1 m)                             | Open samphire and/or chenopod shrubland (20-50%) | Tecticornia              |
| Ground stratum           | Low (<0.5 m)                              | Sparse tussock grassland (0.25-20%)              |                          |



Fulcrum photo ID

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### KBH26 - Habitat assessment

|                          |   |                                     |  |
|--------------------------|---|-------------------------------------|--|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |                                     |  |
| <b>Date</b>              | 11/06/2020                                | <b>Personnel</b>                    | EW   |
| <b>Easting</b>           | 305605                                    | <b>Northing</b>                     | 7589916                                      |
| <b>Landform and soil</b> |   | <b>Rock</b>                         |  |
| Landform                 | Claypan                                   | Rock type/s                         |  |
| Soil type                | Clay                                      | Surface stone cover                 | <5%  |
| Soil colour              | Orange                                    | Surface stone size classes present  | Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>             |  |
| Quality                  | Highly degraded                           | Water Source                        | Absent                                       |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                       |  |
| Disturbance              | Erosion, Overgrazing                      |                                     |  |
| Introduced fauna         | Cattle                                    |                                     |  |
| <b>Vegetation</b>        |   |                                     |  |
| Upper stratum            | Absent                                    |                                     |  |
| Mid stratum              | Absent                                    |                                     |  |
| Ground stratum           | Low (<0.5 m)                              | Sparse tussock grassland (0.25-20%) |  |



Fulcrum photo ID

20989e0a-e862-4162-932b-cf87ad9da316

### KBH27 - Habitat assessment

|                          |   |  |  |
|--------------------------|---|--|--|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |  |
| <b>Date</b>              | 14/06/2020                                | <b>Personnel</b>                             | EW   |
| <b>Easting</b>           | 303046                                    | <b>Northing</b>                              | 7592748  |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |  |
| Landform                 | Alluvial plain                            | Rock type/s                                  |  |
| Soil type                | Sandy loam                                | Surface stone cover                          | <5%  |
| Soil colour              | Red, Brown                                | Surface stone size classes present           | Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |  |
| Quality                  | Disturbed                                 | Water Source                                 | Absent   |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks, Leaf litter, Peeling bark, Termite mounds, Woody debris                        |
| Disturbance              | Overgrazing                               |  |  |
| Introduced fauna         | Cattle                                    |  |  |
| <b>Vegetation</b>        |   |  |  |
| Upper stratum            | Absent                                    |  |  |
| Mid stratum              | Tall (>2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia   |
| Ground stratum           | Low (<0.5 m)                              | Hummock grassland (50-80%)                   | Triodia and buffel grass   |



Fulcrum photo ID

377db7dc-c94d-47a0-99d6-5277d943ee98



### KBH28 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 14/06/2020                                | <b>Personnel</b>                                 | EW  |
| <b>Easting</b>           | 313109                                    | <b>Northing</b>                                  | 7588793   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                      |   |
| Landform                 | Alluvial plain                            | Rock type/s                                      |   |
| Soil type                | Sandy clay                                | Surface stone cover                              | <5%   |
| Soil colour              | Red,Brown                                 | Surface stone size classes present               | Pebbles (<0.6 cm)   |
| <b>Condition</b>         |   | <b>Habitat Features</b>                          |   |
| Quality                  | Good                                      | Water Source                                     | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                    | Hummocks,Leaf litter,Peeling bark,Termite mounds,Woody debris |
| Disturbance              | Erosion,Overgrazing                       |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Absent                                    |  |   |
| Mid stratum              | Low (0.5-1 m)                             | Open samphire and/or chenopod shrubland (20-50%) | Tecticornia   |
| Ground stratum           | Low (<0.5 m)                              | Open hummock grassland (20-50%)                  | Triodia   |



Fulcrum photo ID

62bee856-dddb-4a19-8fc9-316b361e7d36

### KBH29 - Habitat assessment

|                          |   |  |                                   |
|--------------------------|---|--|-----------------------------------|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |                                   |
| <b>Date</b>              | 14/06/2020                                | <b>Personnel</b>                                 | EW                                |
| <b>Easting</b>           | 310862                                    | <b>Northing</b>                                  | 7586728                           |
| <b>Landform and soil</b> |   | <b>Rock</b>                                      |                                   |
| Landform                 | Dune swale                                | Rock type/s                                      | None                              |
| Soil type                | Sandy clay                                | Surface stone cover                              |                                   |
| Soil colour              | Orange,Brown                              | Surface stone size classes present               |                                   |
| <b>Condition</b>         |   | <b>Habitat Features</b>                          |                                   |
| Quality                  | Disturbed                                 | Water Source                                     | Absent                            |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                    | Hummocks,Leaf litter,Woody debris |
| Disturbance              | Erosion,Overgrazing                       |  |                                   |
| Introduced fauna         | Cattle                                    |  |                                   |
| <b>Vegetation</b>        |   |  |                                   |
| Upper stratum            | Absent                                    |  |                                   |
| Mid stratum              | Low (0.5-1 m)                             | Open samphire and/or chenopod shrubland (20-50%) | Tecticornia and Solanum           |
| Ground stratum           | Low (<0.5 m)                              | Sparse tussock grassland (0.25-20%)              | Buffel grass                      |



Fulcrum photo ID

3023ddc2-21cd-4fce-b3c7-8e321b110063



### KBH32 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 12/10/2020                                | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 408018                                    | <b>Northing</b>                              | 7560815   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Upper slope                               | Rock type/s                                  | Calcrete  |
| Soil type                | Clay                                      | Surface stone cover                          | 50 - 75%  |
| Soil colour              | Brown                                     | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm),Small Rocks (6 - 20 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | High quality                              | Water Source                                 | Absent  |
| Fire History             | Burnt (1-5 years)                         | Microhabitats                                | Hummocks,Logs > 10 cm,Rock crevices,Woody debris                                      |
| Disturbance              | None observed                             |  |   |
| Introduced fauna         | None observed                             |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Open woodland (0.25-20%)                     | Eucalyptus, Corymbia  |
| Mid stratum              | Low (0.5-1 m)                             | Sparse shrubland and/or heathland (0.25-20%) |   |
| Ground stratum           | Low (<0.5 m)                              | Sparse hummock grassland (0.25-20%)          | Triodia   |



Fulcrum photo ID

b1393af1-f1fe-452e-a29a-e7deb25de4c7

### KBH33 - Habitat assessment

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 12/10/2020                                | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 400032                                    | <b>Northing</b>                              | 7562556   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Outcrop/breakaway                         | Rock type/s                                  | Shale   |
| Soil type                | Clay                                      | Surface stone cover                          | 50 - 75%  |
| Soil colour              | Brown                                     | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | Very good                                 | Water Source                                 | Absent  |
| Fire History             | Burnt (1-5 years)                         | Microhabitats                                | Hummocks,Rock crevices  |
| Disturbance              |   |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Absent                                    |  |   |
| Mid stratum              | Low (0.5-1 m)                             | Isolated shrubs and/or heath shrubs (<0.25%) | Acacia  |
| Ground stratum           | Low (<0.5 m)                              | Open hummock grassland (20-50%)              | Triodia   |



Fulcrum photo ID

842a0e13-7243-4eba-b5a9-554b69a51c40

### KBB01 - Baseline trap site

|                          |   |                                       |                                       |
|--------------------------|---|---------------------------------------|---------------------------------------|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |                                       |                                       |
| <b>Date</b>              | 15/10/2020                                | <b>Personnel</b>                      | EW                                    |
| <b>Easting</b>           | 306757                                    | <b>Northing</b>                       | 7589099                               |
| <b>Landform and soil</b> |   | <b>Rock</b>                           |                                       |
| Landform                 | Dune Crest                                | Rock type/s                           | None                                  |
| Soil type                | Sand                                      | Surface stone cover                   |                                       |
| Soil colour              | Orange                                    | Surface stone size classes present    |                                       |
| <b>Condition</b>         |   | <b>Habitat Features</b>               |                                       |
| Quality                  | Disturbed                                 | Water Source                          | Absent                                |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                         | Hummocks, Leaf Litter, Termite Mounds |
| Disturbance              | Overgrazing                               |                                       |                                       |
| Introduced fauna         | Cattle                                    |                                       |                                       |
| <b>Vegetation</b>        |   |                                       |                                       |
| Upper stratum            | Absent                                    |                                       |                                       |
| Mid stratum              | Low (0.5-1 m)                             | Isolated shrubs/heath shrubs (<0.25%) |                                       |
| Ground stratum           | Low (<0.5 m)                              | Hummock grassland (50-80%)            | Triodia                               |



Fulcrum photo ID

568495da-d155-4044-bedd-44f17f52b57f

### KBB02 - Baseline trap site

|                          |   |                                     |                          |
|--------------------------|---|-------------------------------------|--------------------------|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |                                     |                          |
| <b>Date</b>              | 16/10/2020                                | <b>Personnel</b>                    | EW                       |
| <b>Easting</b>           | 309730                                    | <b>Northing</b>                     | 7589297                  |
| <b>Landform and soil</b> |   | <b>Rock</b>                         |                          |
| Landform                 | Alluvial plain                            | Rock type/s                         | None                     |
| Soil type                | Sandy Clay                                | Surface stone cover                 |                          |
| Soil colour              | Red, Brown                                | Surface stone size classes present  |                          |
| <b>Condition</b>         |   | <b>Habitat Features</b>             |                          |
| Quality                  | Disturbed                                 | Water Source                        | Absent                   |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                       | Hummocks, Termite mounds |
| Disturbance              | Erosion, Overgrazing                      |                                     |                          |
| Introduced fauna         | Cattle                                    |                                     |                          |
| <b>Vegetation</b>        |   |                                     |                          |
| Upper stratum            | Absent                                    |                                     |                          |
| Mid stratum              | Absent                                    |                                     |                          |
| Ground stratum           | Low (<0.5 m)                              | Sparse hummock Grassland (0.25-20%) | Triodia                  |



Fulcrum photo ID

489374b4-0fba-4b61-9758-b6e572bbae4a



### KBB03 - Baseline trap site

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 16/10/2020                                | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 323966                                    | <b>Northing</b>                              | 7589946   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Plain                                     | Rock type/s                                  |   |
| Soil type                | Sand                                      | Surface stone cover                          | <5%   |
| Soil colour              | Orange,Brown                              | Surface stone size classes present           | Pebbles (<0.6 cm)   |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | Very good                                 | Water Source                                 | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks,Leaf litter,Peeling bark,Termite mounds,Woody debris |
| Disturbance              |   |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Open mallee woodland (0.25-20%)              | Mallee Eucalyptus   |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-50%) | Acacia and Hakea  |
| Ground stratum           | Low (<0.5 m)                              | Open hummock grassland (20-50%)              | Triodia   |



Fulcrum photo ID

3b0fd116-6075-45cc-b0bc-5758e5b4ee9e

### KBB04 - Baseline trap site

|                          |   |                                    |   |
|--------------------------|---|------------------------------------|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |                                    |   |
| <b>Date</b>              | 15/10/2020                                | <b>Personnel</b>                   | EW  |
| <b>Easting</b>           | 353433                                    | <b>Northing</b>                    | 7583786   |
| <b>Landform and soil</b> |   | <b>Rock</b>                        |   |
| Landform                 | Plain                                     | Rock type/s                        | Ironstone   |
| Soil type                | Sandy loam                                | Surface stone cover                | 5 - 25%   |
| Soil colour              | Red,Brown                                 | Surface stone size classes present | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm),Small Rocks (6 - 20 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>            |   |
| Quality                  | Disturbed                                 | Water Source                       | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                      | Hummocks,Leaf litter,Peeling bark,Woody debris  |
| Disturbance              | Erosion,Overgrazing                       |                                    |   |
| Introduced fauna         | Cattle                                    |                                    |   |
| <b>Vegetation</b>        |   |                                    |   |
| Upper stratum            | Low (<10 m)                               | Woodland (20-50%)                  | Mulga   |
| Mid stratum              | Absent                                    |                                    |   |
| Ground stratum           | Low (<0.5 m)                              | Open hummock grassland (20-50%)    | Triodia   |



Fulcrum photo ID

e48fc396-4654-4782-9051-219cff9cac67



### KBB05 - Baseline trap site

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 13/10/2020                                | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 372038                                    | <b>Northing</b>                              | 7573958   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Plain                                     | Rock type/s                                  | Quartz  |
| Soil type                | Sandy loam                                | Surface stone cover                          | 50 - 75%  |
| Soil colour              | Brown                                     | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | Very good                                 | Water Source                                 | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks,Leaf litter,Peeling bark,Woody debris                |
| Disturbance              | Vehicle tracks                            |  |   |
| Introduced fauna         | Cat,Cattle                                |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Open woodland (0.25-20%)                     | Acacia  |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-20%) | Acacia  |
| Ground stratum           | Mid (0.5-1 m)                             | Open hummock grassland (20-50%)              | Triodia   |



Fulcrum photo ID

246a389c-0333-4175-bc44-51af3ac01097

### KBB06 - Baseline trap site

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 12/10/2020                                | <b>Personnel</b>                         | EW  |
| <b>Easting</b>           | 375967                                    | <b>Northing</b>                          | 7572789   |
| <b>Landform and soil</b> |   | <b>Rock</b>                              |   |
| Landform                 | Lower slope                               | Rock type/s                              | Ironstone   |
| Soil type                | Sandy loam                                | Surface stone cover                      | 75 - 100%   |
| Soil colour              | Brown                                     | Surface stone size classes present       | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm),Small Rocks (6 - 20 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                  |   |
| Quality                  | Very good                                 | Water Source                             | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                            | Hummocks,Leaf litter,Rock crevices  |
| Disturbance              | Vehicle tracks                            |  |   |
| Introduced fauna         | None observed                             |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Absent                                    |  |   |
| Mid stratum              | Mid (1-2 m)                               | Open shrubland and/or heathland (20-50%) | Acacia  |
| Ground stratum           | Mid (0.5-1 m)                             | Open hummock grassland (20-50%)          | Triodia   |



Fulcrum photo ID

ee2c8815-2d29-4013-b200-c81d5a20c407

### KBB08 - Baseline trap site

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 13/10/2020                                | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 404812                                    | <b>Northing</b>                              | 7561392   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Mid slope                                 | Rock type/s                                  | Ironstone   |
| Soil type                | Sandy loam                                | Surface stone cover                          | 75 - 100%   |
| Soil colour              | Brown                                     | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm),Small Rocks (6 - 20 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | Very good                                 | Water Source                                 | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Exfoliating rock,Hummocks,Rock crevices   |
| Disturbance              |   |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Absent                                    |  |   |
| Mid stratum              | Low (0.5-1 m)                             | Sparse shrubland and/or heathland (0.25-20%) | Acacia  |
| Ground stratum           | Low (<0.5 m)                              | Open hummock grassland (20-50%)              | Triodia   |



Fulcrum photo ID

5753fbe2-aabd-44ad-95c9-8d7572fa41b7

### KBB09 - Baseline trap site

|                          |   |                                     |   |
|--------------------------|---|-------------------------------------|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |                                     |   |
| <b>Date</b>              | 12/10/2020                                | <b>Personnel</b>                    | EW  |
| <b>Easting</b>           | 414547                                    | <b>Northing</b>                     | 7561496   |
| <b>Landform and soil</b> |   | <b>Rock</b>                         |   |
| Landform                 | Drainage line                             | Rock type/s                         | Calcrete,Ironstone  |
| Soil type                | Sandy loam                                | Surface stone cover                 | 5 - 25%   |
| Soil colour              | Brown                                     | Surface stone size classes present  | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>             |   |
| Quality                  | Very good                                 | Water Source                        | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                       | Hummocks,Leaf litter,Woody debris                             |
| Disturbance              |   |                                     |   |
| Introduced fauna         | Cattle                                    |                                     |   |
| <b>Vegetation</b>        |   |                                     |   |
| Upper stratum            | Mid (10-30 m)                             | Woodland (20-50%)                   | Corymbia  |
| Mid stratum              | Tall (>2 m)                               | Shrubland and/or heathland (50-80%) | Acacia and Grevillea  |
| Ground stratum           | Mid (0.5-1 m)                             | Open hummock grassland (20-50%)     | Triodia   |



Fulcrum photo ID

185c7ba6-f635-48b2-8050-aedde910bd7a



### KBB10 - Baseline trap site

|                          |   |  |  |
|--------------------------|---|--|--|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |  |
| <b>Date</b>              | 11/10/2020                                | <b>Personnel</b>                             | LG   |
| <b>Easting</b>           | 337208                                    | <b>Northing</b>                              | 7588026  |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |  |
| Landform                 | River                                     | Rock type/s                                  |  |
| Soil type                | Sandy clay                                | Surface stone cover                          | <5%  |
| Soil colour              | Red,Brown                                 | Surface stone size classes present           | Pebbles (<0.6 cm)  |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |  |
| Quality                  | Very good                                 | Water Source                                 | Absent   |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Tree hollows,Hummocks,Leaf litter,Logs > 10 cm,Peeling bark,Woody debris |
| Disturbance              | Overgrazing                               |  |  |
| Introduced fauna         | Cattle                                    |  |  |
| <b>Vegetation</b>        |   |  |  |
| Upper stratum            | Mid (10-30 m)                             | Woodland (20-50%)                            | Eucalyptus and Corymbia  |
| Mid stratum              | Tall (>2 m)                               | Sparse shrubland and/or heathland (0.25-20%) | Acacia   |
| Ground stratum           | Low (<0.5 m)                              | Open hummock grassland (20-50%)              | Triodia  |



Fulcrum photo ID

afeaea86-ac54-4699-8610-90491fa5e0b6

### KBB11 - Baseline trap site

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 21/04/2021                                | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 416724                                    | <b>Northing</b>                              | 7564153   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| Landform                 | Drainage line                             | Rock type/s                                  | Ironstone   |
| Soil type                | Sandy clay                                | Surface stone cover                          | 5 - 25%   |
| Soil colour              | Red,Brown                                 | Surface stone size classes present           | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| Quality                  | Very good                                 | Water Source                                 | Absent  |
| Fire History             | Little or no fire evidence (>5 years)     | Microhabitats                                | Hummocks,Leaf litter,Woody debris                             |
| Disturbance              | Vehicle tracks                            |  |   |
| Introduced fauna         | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| Upper stratum            | Low (<10 m)                               | Open woodland (0.25-20%)                     | Corymbia  |
| Mid stratum              | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-20%) | Acacia  |
| Ground stratum           | Low (<0.5 m)                              | Open hummock grassland (20-50%)              | Triodia   |



Fulcrum photo ID

N/A



### KBB12 - Baseline trap site

|                          |   |  |   |
|--------------------------|---|--|---|
| <b>Project:</b>          | 4441 Ken's Bore to Ashburton Fauna Survey |  |   |
| <b>Date</b>              | 21/04/2021                                | <b>Personnel</b>                             | EW  |
| <b>Easting</b>           | 399171                                    | <b>Northing</b>                              | 7561789   |
| <b>Landform and soil</b> |   | <b>Rock</b>                                  |   |
| <b>Landform</b>          | Drainage line                             | <b>Rock type/s</b>                           | Ironstone   |
| <b>Soil type</b>         | Sandy clay                                | <b>Surface stone cover</b>                   | 50 - 75%  |
| <b>Soil colour</b>       | Red,Brown                                 | <b>Surface stone size classes present</b>    | Pebbles (<0.6 cm),Small Stones (0.6 - 2 cm),Stones (2 - 6 cm),Small Rocks (6 - 20 cm) |
| <b>Condition</b>         |   | <b>Habitat Features</b>                      |   |
| <b>Quality</b>           | High quality                              | <b>Water Source</b>                          | Absent  |
| <b>Fire History</b>      | Unknown                                   | <b>Microhabitats</b>                         | Hummocks,Leaf litter,Woody debris   |
| <b>Disturbance</b>       | None observed                             |  |   |
| <b>Introduced fauna</b>  | Cattle                                    |  |   |
| <b>Vegetation</b>        |   |  |   |
| <b>Upper stratum</b>     | Absent                                    |  |   |
| <b>Mid stratum</b>       | Mid (1-2 m)                               | Sparse shrubland and/or heathland (0.25-20%) | Acacia  |
| <b>Ground stratum</b>    | Low (<0.5 m)                              | Open hummock grassland (20-50%)              | Triodia   |



Fulcrum photo ID

N/A

# **Appendix E**

## **Inventory of Vertebrate Fauna Recorded within the Survey Area**







| Family           | Scientific Name                            | Common Name                      | Conservation Status |         | Baseline Trap Sites |       |       |       |       |       |       |       |       |       | Targeted Trap Sites |       |       |       |       | Other | Grand Total |       |
|------------------|--|----------------------------------|---------------------|---------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|-------|-------|-------|-------|-------|-------------|-------|
|                  |  |                                  | State               | Federal | KBB01               | KBB02 | KBB03 | KBB04 | KBB05 | KBB06 | KBB08 | KBB09 | KBB10 | KBB11 | KBB12               | KBT01 | KBT02 | KBT03 | KBT04 |       |             | KBT05 |
| Dasyuridae       | <i>Pseudantechinus woolleyae</i>           | Woolley's Pseudantechinus        |                     |         |                     |       |       |       |       |       |       |       |       |       |                     |       |       |       | 9     |       | 9           |       |
|                  | <i>Sminthopsis youngsoni</i>               | Lesser Hairy-footed Dunnart      |                     |         | 1                   |       |       |       |       |       |       |       |       |       |                     |       |       |       |       |       |             | 1     |
| Emballonuridae   | <i>Saccolaimus flaviventris</i>            | Common Sheath-tailed Bat         |                     |         |                     |       |       |       |       |       |       |       |       |       |                     |       |       | 1     | 1     |       |             | 2     |
|                  | <i>Taphozous georgianus</i>                |                                  |                     |         |                     |       |       |       |       |       |       |       |       | 3     | 7                   | 3     |       | 5     | 1     |       |             | 19    |
|                  | <i>Taphozous hilli</i>                     | Hill's Sheath-tailed Bat         |                     |         |                     |       |       |       |       |       |       | 1     |       |       |                     | 1     | 1     |       |       |       |             | 3     |
| Felidae          | <i>Felis catus</i>                         | Cat                              |                     |         |                     |       | 1     |       |       |       |       |       |       |       |                     |       |       |       |       |       |             | 1     |
| Hipposideridae   | <i>Rhinonicteris aurantia Pilbara form</i> | Pilbara Leaf-nosed Bat           | VU                  |         |                     |       |       |       |       |       |       |       | 15    |       |                     |       | 5     | 95    | 1     |       |             | 116   |
| Macropodidae     | <i>Osphranter robustus erubescens</i>      | Euro, Biggada                    |                     |         |                     |       |       |       |       |       |       |       |       |       | 3                   |       | 2     |       |       | 2     |             | 7     |
|                  | <i>Osphranter sp.</i>                      |                                  |                     |         |                     |       |       |       |       |       | 1     |       |       |       |                     |       |       |       |       | 10    |             | 11    |
|                  | <i>Petrogale rothschildi</i>               | Rothschild's Rock-wallaby        |                     |         |                     |       |       |       |       |       |       |       |       |       | 3                   |       |       | 4     |       |       |             | 7     |
| Megadermatidae   | <i>Macroderma gigas</i>                    | Ghost Bat                        | VU                  |         |                     |       |       |       |       |       |       |       |       |       | 1                   |       |       | 7     |       |       |             | 8     |
| Molossidae       | <i>Austronomus australis</i>               | White-striped Free-tailed Bat    |                     |         |                     |       |       |       |       |       |       |       |       |       | 2                   |       |       | 1     | 1     |       |             | 4     |
|                  | <i>Chaerephon jobensis</i>                 |                                  |                     |         |                     |       |       |       |       |       |       |       | 1     |       |                     | 1     | 1     | 2     |       |       |             | 5     |
|                  | <i>Chaerephon jobensis colonicus</i>       | Greater Northern Free-tailed Bat |                     |         |                     |       |       |       |       |       |       | 3     |       |       |                     |       |       |       |       | 2     |             | 5     |
| Muridae          | <i>Notomys alexis alexis</i>               | Spinifex Hopping-mouse           |                     |         |                     |       | 1     |       |       |       |       |       | 1     |       |                     |       |       |       |       | 3     |             | 5     |
|                  | <i>Pseudomys chapmani</i>                  | Western Pebble-mound Mouse       | P4                  |         |                     |       |       |       |       |       |       |       |       |       |                     |       |       |       |       | 1     |             | 1     |
|                  | <i>Zyomys argurus</i>                      | Common Rock-rat                  |                     |         |                     |       |       |       |       |       |       |       |       |       | 1                   | 7     |       |       |       |       |             | 8     |
| Vespertilionidae | <i>Chalinolobus gouldii</i>                | Gould's Wattled Bat              |                     |         |                     |       |       |       |       |       |       |       | 3     | 1     | 3                   | 3     | 1     | 1     | 3     | 4     |             | 19    |
|                  | <i>Nyctophilus geoffroyi geoffroyi</i>     | Lesser Long-eared Bat            |                     |         |                     |       |       |       |       |       |       |       |       |       |                     |       |       | 1     |       |       |             | 1     |
|                  | <i>Scotorepens greyii</i>                  | Yellow-bellied Sheath-tailed Bat |                     |         |                     |       |       |       |       |       |       | 3     | 1     | 3     | 1                   | 1     | 1     | 2     | 3     |       |             | 15    |
|                  | <i>Vespadelus finlaysoni</i>               | Finlayson's Cave Bat             |                     |         |                     |       |       |       |       |       |       |       | 1     | 3     | 7                   | 4     | 1     | 5     | 1     |       |             | 22    |
| <b>Reptiles</b>  |  |                                  |                     |         |                     |       |       |       |       |       |       |       |       |       |                     |       |       |       |       |       |             |       |
| Agamidae         | <i>Ctenophorus caudicinctus</i>            | Western Ring-tailed Dragon       |                     |         |                     |       |       |       | 4     | 5     |       |       | 1     | 10    | 1                   | 1     |       | 4     |       | 2     |             | 28    |
|                  | <i>Ctenophorus isolepis</i>                |                                  |                     |         |                     | 1     |       | 2     |       |       |       |       |       |       |                     |       |       |       |       | 16    |             | 19    |
|                  | <i>Ctenophorus nuchalis</i>                | Central Netted Dragon            |                     |         | 1                   |       |       |       |       |       |       |       | 1     |       |                     |       |       |       |       | 2     |             | 4     |
|                  | <i>Gowidon longirostris</i>                | Long-nosed Dragon                |                     |         |                     |       | 1     |       |       |       |       |       | 3     |       |                     |       |       |       |       |       |             | 4     |
|                  | <i>Pogona minor mitchelli</i>              |                                  |                     |         |                     |       |       |       |       |       |       |       |       | 1     |                     |       |       |       |       |       |             | 1     |
| Carphodactylidae | <i>Nephrurus levis</i>                     |                                  |                     |         | 3                   | 1     |       |       |       |       |       |       |       |       |                     |       |       |       |       |       |             | 4     |
| Diplodactylidae  | <i>Diplodactylus bilybara</i>              | Western Fat-tailed Gecko         |                     |         | 1                   | 5     | 2     |       |       |       |       | 8     | 6     | 5     |                     |       |       |       |       | 1     |             | 28    |
|                  | <i>Lucasium stenodactylus</i>              |                                  |                     |         | 1                   |       |       | 1     |       |       | 1     | 1     |       |       |                     |       |       |       |       |       |             | 4     |
|                  | <i>Lucasium wombeyi</i>                    |                                  |                     |         |                     |       |       |       |       |       |       | 2     |       |       |                     |       |       |       |       |       |             | 2     |
|                  | <i>Rhynchoedura ornata</i>                 | Western Beaked Gecko             |                     |         |                     |       |       |       |       |       |       | 1     |       |       |                     |       |       |       |       |       |             | 1     |
|                  | <i>Strophurus elderi</i>                   |                                  |                     |         |                     |       |       |       |       |       |       |       | 1     |       |                     |       |       |       |       |       |             | 1     |
| Elapidae         | <i>Acanthophis wellsi</i>                  | Pilbara Death Adder              |                     |         |                     |       |       | 1     |       |       |       |       |       |       |                     |       |       |       |       |       |             | 1     |
|                  | <i>Brachyuropis approximans</i>            |                                  |                     |         |                     |       |       |       |       | 1     |       |       |       |       |                     |       |       |       |       |       |             | 1     |
|                  | <i>Demansia psammophis</i>                 |                                  |                     |         |                     |       |       |       |       |       |       |       |       |       |                     |       |       |       |       | 1     |             | 1     |
|                  | <i>Demansia rufescens</i>                  | Rufous Whipsnake                 |                     |         |                     |       |       | 1     |       | 1     |       | 1     |       |       |                     |       |       |       |       |       |             | 3     |
|                  | <i>Pseudechis australis</i>                | Mulga Snake                      |                     |         |                     |       |       |       |       |       |       |       |       |       |                     |       |       | 1     |       | 2     |             | 3     |
|                  | <i>Pseudonaja nuchalis</i>                 | Gwardar; Northern Brown Snake    |                     |         |                     |       |       |       |       |       |       |       |       |       |                     |       |       |       |       | 1     |             | 1     |





## Terrestrial Vertebrate Fauna Inventory: Records by Observation Method

State - Conservation status under BC Act or DBCA priority list, Federal - Conservation status under EPBC Act, EN - Endangered, VU - Vulnerable, P - Listed as priority by DBCA.

| Family            | Scientific Name                    | Common Name                                  | Conservation Status |         | Capture Method |        |      |                    |              |           |        |                  |          |      |      |         |      | Grand Total |        |
|-------------------|------------------------------------|--|---------------------|---------|----------------|--------|------|--------------------|--------------|-----------|--------|------------------|----------|------|------|---------|------|-------------|--------|
|                   |                                    |  | State               | Federal | Bucket         | Funnel | Pipe | Small Elliott Trap | Hand Capture | Cage Trap | Camera | ARU - Ultrasonic | Sighting | Call | Nest | Remains | Scat |             | Tracks |
| <b>Amphibians</b> |                                    |  |                     |         |                |        |      |                    |              |           |        |                  |          |      |      |         |      |             |        |
| Limnodynastidae   | <i>Notaden nichollsi</i>           | Desert Spadefoot                             |                     |         |                |        | 3    |                    |              |           |        |                  |          |      |      |         |      |             | 3      |
| Pelodyadidae      | <i>Cyclorana maini</i>             | Sheep Frog                                   |                     |         | 36             |        | 31   |                    |              |           |        |                  |          |      |      |         |      |             | 67     |
|                   | <i>Litoria rubella</i>             | Little Red Tree Frog                         |                     |         |                |        |      |                    |              |           |        |                  | 5        |      |      |         |      |             | 5      |
| <b>Birds</b>      |                                    |  |                     |         |                |        |      |                    |              |           |        |                  |          |      |      |         |      |             |        |
| Acanthizidae      | <i>Smicrornis brevirostris</i>     | Weebill                                      |                     |         |                |        |      |                    |              |           |        |                  |          | 1    |      |         |      |             | 1      |
| Accipitridae      | <i>Accipiter cirrocephalus</i>     | Collared Sparrowhawk                         |                     |         |                |        |      |                    |              |           |        |                  | 2        |      |      |         |      |             | 2      |
|                   | <i>Aquila audax</i>                | Wedge-tailed Eagle                           |                     |         |                |        |      |                    |              |           |        |                  | 1        |      |      |         |      |             | 1      |
|                   | <i>Circus assimilis</i>            | Spotted Harrier                              |                     |         |                |        |      |                    |              |           |        |                  | 3        |      |      |         |      |             | 3      |
|                   | <i>Haliastur sphenurus</i>         | Whistling Kite                               |                     |         |                |        |      |                    |              |           |        |                  | 3        |      |      |         |      |             | 3      |
| Alcedinidae       | <i>Dacelo leachii</i>              | Blue-winged Kookaburra                       |                     |         |                |        |      |                    |              |           |        |                  |          | 2    |      |         |      |             | 2      |
| Anatidae          | <i>Chenonetta jubata</i>           | Australian Wood Duck (Wood Duck, Maned Duck) |                     |         |                |        |      |                    |              |           |        |                  | 2        |      |      |         |      |             | 2      |
|                   | <i>Malacorhynchus membranaceus</i> | Pink-eared Duck                              |                     |         |                |        |      |                    |              |           |        |                  | 50       |      |      |         |      |             | 50     |
| Ardeidae          | <i>Ardea pacifica</i>              | White-necked Heron                           |                     |         |                |        |      |                    |              |           |        |                  | 4        |      |      |         |      |             | 4      |
|                   | <i>Egretta novaehollandiae</i>     | White-faced Heron                            |                     |         |                |        |      |                    |              |           |        |                  | 2        |      |      |         |      |             | 2      |
| Artamidae         | <i>Artamus cinereus</i>            | Black-faced Woodswallow                      |                     |         |                |        |      |                    |              |           |        |                  | 16       |      |      |         |      |             | 16     |
| Cacatuidae        | <i>Cacatua sanguinea</i>           | Little Corella                               |                     |         |                |        |      |                    |              |           |        |                  | 10       | 1    |      |         |      |             | 11     |
|                   | <i>Eolophus roseicapilla</i>       | Galah  |                     |         |                |        |      |                    |              |           |        |                  | 71       | 1    |      |         |      |             | 72     |
|                   | <i>Nymphicus hollandicus</i>       | Cockatiel                                    |                     |         |                |        |      |                    |              |           |        |                  | 17       | 1    |      |         |      |             | 18     |
| Campephagidae     | <i>Coracina novaehollandiae</i>    | Black-faced Cuckoo-shrike                    |                     |         |                |        |      |                    |              |           |        |                  | 8        | 2    |      |         |      |             | 10     |
|                   | <i>Lalage tricolor</i>             | White-winged Triller                         |                     |         |                |        |      |                    |              |           |        |                  |          |      | 1    |         |      |             | 1      |
| Caprimulgidae     | <i>Eurostopodus argus</i>          | Spotted Nightjar                             |                     |         |                |        |      |                    |              |           |        |                  | 2        |      |      |         |      |             | 2      |
| Casuariidae       | <i>Dromaius novaehollandiae</i>    | Emu  |                     |         |                |        |      |                    |              |           |        |                  |          |      |      |         |      | 1           | 1      |
| Charadriidae      | <i>Elsayornis melanops</i>         | Black-fronted Dotterel                       |                     |         |                |        |      |                    |              |           |        |                  | 3        |      |      |         |      |             | 3      |
|                   | <i>Vanellus tricolor</i>           | Banded Lapwing                               |                     |         |                |        |      |                    |              |           |        |                  | 2        |      |      |         |      |             | 2      |
| Columbidae        | <i>Geopelia cuneata</i>            | Diamond Dove                                 |                     |         |                |        |      |                    |              |           |        |                  | 2        | 1    |      |         |      |             | 3      |
|                   | <i>Geophaps plumifera</i>          | Spinifex Pigeon                              |                     |         |                |        |      |                    |              |           |        |                  | 2        |      |      |         |      |             | 2      |
|                   | <i>Ocyphaps lophotes</i>           | Crested Pigeon                               |                     |         |                |        |      |                    |              |           |        |                  | 20       | 1    |      |         |      |             | 21     |
|                   | <i>Phaps chalcoptera</i>           | Common Bronzewing                            |                     |         |                |        |      |                    |              | 2         |        |                  |          |      |      |         |      |             | 2      |
| Corvidae          | <i>Corvus bennetti</i>             | Little Crow                                  |                     |         |                |        |      |                    |              |           |        |                  | 16       | 1    |      |         |      |             | 17     |
|                   | <i>Corvus orru</i>                 | Torresian Crow                               |                     |         |                |        |      |                    |              |           | 8      |                  | 7        | 1    |      |         |      |             | 16     |
| Cracticidae       | <i>Cracticus nigrogularis</i>      | Pied Butcherbird                             |                     |         |                |        |      |                    |              |           |        |                  | 4        | 3    |      |         |      |             | 7      |
| Cuculidae         | <i>Chalcites basalis</i>           | Horsfield's Bronze Cuckoo                    |                     |         |                |        |      |                    |              |           |        |                  | 1        |      |      |         |      |             | 1      |
| Estrildidae       | <i>Emblema pictum</i>              | Painted Finch                                |                     |         |                |        |      |                    |              |           | 2      |                  | 6        |      |      |         |      |             | 8      |
|                   | <i>Taeniopygia guttata</i>         | Zebra Finch                                  |                     |         |                |        |      |                    |              |           |        |                  | 26       |      |      |         |      |             | 26     |
| Falconidae        | <i>Falco berigora</i>              | Brown Falcon                                 |                     |         |                |        |      |                    |              |           |        |                  | 4        |      |      |         |      |             | 4      |


















## **Appendix F SRE Sites**




SRE Sites

| Site    | Landform      | Broard SRE Habitat        | SRE Habitat Suitability | Easting  | Northing  | Zone | Photo   |
|---------|---------------|---------------------------|-------------------------|----------|-----------|------|---|
| KBSRE01 | Drainage line | Alluvial plain/claypan    | Moderate                | 302833.4 | 7591350.0 | 50   |    |
| KBSRE02 | Drainage line | Drainage line/ river/cree | High                    | 362941.3 | 7577296.8 | 50   |   |
| KBSRE03 | Drainage line | Mulga Woodland            | Moderate                | 353525.4 | 7584009.5 | 50   |  |







| Site    | Landform      | Broard SRE Habitat        | SRE Habitat Suitability | Easting  | Northing  | Zone | Photo  |
|---------|---------------|---------------------------|-------------------------|----------|-----------|------|--|
| KBSRE04 | Drainage line | Drainage line/ river/cree | High                    | 379650.4 | 7572304.4 | 50   |   |
| KBSRE05 | Lower slope   | Rocky hills/mesa          | High                    | 375941.8 | 7572869.7 | 50   |   |
| KBSRE06 | Plain         | Stony Plain               | Moderate                | 373469.9 | 7573392.1 | 50   |  |

| Site    | Landform      | Broard SRE Habitat        | SRE Habitat Suitability | Easting  | Northing  | Zone | Photo  |
|---------|---------------|---------------------------|-------------------------|----------|-----------|------|--|
| KBSRE07 | Drainage line | Drainage line/ river/cree | High                    | 370709.3 | 7574421.8 | 50   |   |
| KBSRE08 | Plain         | Stony Plain               | Moderate                | 370735.1 | 7574531.6 | 50   |   |
| KBSRE09 | Drainage line | Drainage line/ river/cree | High                    | 367704.0 | 7575627.5 | 50   |  |

| Site    | Landform      | Broard SRE Habitat        | SRE Habitat Suitability | Easting  | Northing  | Zone | Photo  |
|---------|---------------|---------------------------|-------------------------|----------|-----------|------|--|
| KBSRE10 | Drainage line | Drainage line/ river/cree | High                    | 403876.9 | 7561383.0 | 50   |   |
| KBSRE11 | Plain         | Stony Plain               | Moderate                | 402127.9 | 7561646.4 | 50   |   |
| KBSRE12 | Plain         | Stony Plain               | Moderate                | 410588.1 | 7561986.5 | 50   |  |






| Site    | Landform      | Broard SRE Habitat        | SRE Habitat Suitability | Easting  | Northing  | Zone | Photo  |
|---------|---------------|---------------------------|-------------------------|----------|-----------|------|--|
| KBSRE13 | Drainage line | Drainage line/ river/cree | High                    | 414283.2 | 7561605.5 | 50   |   |
| KBSRE14 | Mid slope     | Rocky hills/mesa          | High                    | 404942.7 | 7561151.9 | 50   |   |
| KBSRE15 | Drainage line | Plain                     | Moderate                | 412380.7 | 7563430.4 | 50   |  |




| Site    | Landform   | Broard SRE Habitat | SRE Habitat Suitability | Easting  | Northing  | Zone | Photo  |
|---------|------------|--------------------|-------------------------|----------|-----------|------|--|
| KBSRE16 | Plain      | Plain              | Moderate                | 344238.3 | 7587620.9 | 50   |   |
| KBSRE17 | Plain      | Plain              | Moderate                | 329371.9 | 7589770.5 | 50   |   |
| KBSRE18 | Dune crest | Sand dunes         | Moderate                | 309931.4 | 7589097.5 | 50   |  |

| Site    | Landform          | Broard SRE Habitat | SRE Habitat Suitability | Easting  | Northing  | Zone | Photo  |
|---------|-------------------|--------------------|-------------------------|----------|-----------|------|--|
| KBSRE19 | Plain             | Rocky hills/mesa   | High                    | 400034.3 | 7562494.5 | 50   |   |
| KBSRE20 | Mid slope         | Rocky hills/mesa   | High                    | 399450.3 | 7562048.0 | 50   |   |
| KBSRE21 | Outcrop/breakaway | Rocky hills/mesa   | High                    | 399056.7 | 7561782.1 | 50   |  |



| Site    | Landform      | Broard SRE Habitat        | SRE Habitat Suitability | Easting  | Northing  | Zone | Photo  |
|---------|---------------|---------------------------|-------------------------|----------|-----------|------|--|
| KBSRE22 | Plain         | Stony Plain               | Moderate                | 417359.0 | 7557451.7 | 50   |   |
| KBSRE23 | Drainage line | Drainage line/ river/cree | High                    | 407368.8 | 7561200.4 | 50   |   |
| KBSRE24 | Plain         | Stony Plain               | Moderate                | 408221.5 | 7561102.7 | 50   |  |

| Site    | Landform      | Broard SRE Habitat        | SRE Habitat Suitability | Easting  | Northing  | Zone | Photo  |
|---------|---------------|---------------------------|-------------------------|----------|-----------|------|--|
| KBSRE25 | Mid slope     | Rocky hills/mesa          | High                    | 416700.6 | 7564282.1 | 50   |   |
| KBSRE26 | Plain         | Stony Plain               | Moderate                | 415305.1 | 7562892.0 | 50   |   |
| KBSRE27 | Drainage line | Drainage line/ river/cree | High                    | 337145.3 | 7588194.0 | 50   |  |

| Site    | Landform | Broard SRE Habitat     | SRE Habitat Suitability | Easting  | Northing  | Zone | Photo  |
|---------|----------|------------------------|-------------------------|----------|-----------|------|--|
| KBSRE28 | Plain    | Plain                  | Moderate                | 320659.2 | 7590253.9 | 50   |   |
| KBSRE29 | Plain    | Alluvial plain/claypan | Moderate                | 313758.9 | 7590561.3 | 50   |   |
| KBSRE30 | Plain    | Alluvial plain/claypan | Moderate                | 313132.2 | 7588448.1 | 50   |  |



# **Appendix G**

## **SRE Specimen Abundance and Tracking Codes**

**SRE Specimen Abundance and Tracking Codes**

| Class              | Order             | Family      | Taxon                            | SRE Status | Abundance | Site    | Date     | Collection Method                          | Tracking number | Identified by |
|--------------------|-------------------|-------------|----------------------------------|------------|-----------|---------|----------|--|-----------------|---------------|
| <b>Chelicerata</b> |                   |             |                                  |            |           |         |          |  |                 |               |
| Arachnida          | Mygalomorphae     | Anamidae    | <i>Aname ellanae</i>             | Widespread | 5         | KBB01   | 15/10/20 | Dry pitfall trapping                       | ISTN2621        | Dr T Moulds   |
| Arachnida          | Mygalomorphae     | Anamidae    | <i>Aname ellanae</i>             | Widespread | 4         | KBB03   | 15/10/20 | Dry pitfall trapping                       | ISTN2637        | Dr T Moulds   |
| Arachnida          | Pseudoscorpionida | Chthoniidae | <i>Austrochthonius australis</i> | Widespread | 1         | KBSRE05 | 6/06/21  | Leaf litter extracted from tullgren funnel | ISTN2588        | Dr T Moulds   |
| Arachnida          | Pseudoscorpionida | Chthoniidae | <i>Austrochthonius australis</i> | Widespread | 3         | KBSRE27 | 8/07/21  | Leaf litter extracted from tullgren funnel | ISTN2597        | Dr T Moulds   |
| Arachnida          | Pseudoscorpionida | Olpiidae    | <i>Beierolpium</i> sp.           | Possible A | 2         | KBSRE14 | 5/06/21  | Leaf litter extracted from tullgren funnel | ISTN2574        | Dr T Moulds   |
| Arachnida          | Pseudoscorpionida | Olpiidae    | <i>Beierolpium</i> sp.           | Possible A | 1         | KBSRE22 | 7/06/21  | Active searching and leaf litter sifting   | ISTN2551        | Dr T Moulds   |
| Arachnida          | Pseudoscorpionida | Olpiidae    | <i>Beierolpium</i> sp.           | Possible A | 1         | KBSRE25 | 7/06/21  | Leaf litter extracted from tullgren funnel | ISTN2596        | Dr T Moulds   |
| Arachnida          | Pseudoscorpionida | Olpiidae    | <i>Beierolpium</i> sp.           | Possible A | 2         | KBSRE26 | 7/06/21  | Leaf litter extracted from tullgren funnel | ISTN2427        | Dr T Moulds   |
| Arachnida          | Pseudoscorpionida | Olpiidae    | <i>Indolpium</i> sp.             | Possible A | 1         | KBSRE01 | 4/06/21  | Leaf litter extracted from tullgren funnel | ISTN2580        | Dr T Moulds   |
| Arachnida          | Pseudoscorpionida | Olpiidae    | <i>Indolpium</i> sp.             | Possible A | 2         | KBSRE26 | 7/06/21  | Leaf litter extracted from tullgren funnel | ISTN2592        | Dr T Moulds   |
| Arachnida          | Pseudoscorpionida | Olpiidae    | <i>Indolpium</i> sp.             | Possible A | 1         | KBB08   | 15/10/20 | Dry pitfall trapping                       | ISTN2653        | Dr T Moulds   |
| Arachnida          | Scorpionida       | Buthidae    | <i>Lychas</i> 'hairy tail'       | Widespread | 4         | KBB02   | 15/10/20 | Dry pitfall trapping                       | ISTN2635        | Dr T Moulds   |
| Arachnida          | Scorpionida       | Buthidae    | <i>Lychas</i> 'hairy tail'       | Widespread | 15        | KBB03   | 15/10/20 | Dry pitfall trapping                       | ISTN2639        | Dr T Moulds   |
| Arachnida          | Scorpionida       | Buthidae    | <i>Lychas</i> 'hairy tail'       | Widespread | 2         | KBB04   | 15/10/20 | Dry pitfall trapping                       | ISTN2642        | Dr T Moulds   |
| Arachnida          | Scorpionida       | Buthidae    | <i>Lychas</i> 'hairy tail'       | Widespread | 1         | KBB08   | 15/10/20 | Dry pitfall trapping                       | ISTN2650        | Dr T Moulds   |
| Arachnida          | Scorpionida       | Buthidae    | <i>Lychas</i> 'harveyi'          | Widespread | 1         | KBSRE02 | 5/06/21  | Leaf litter extracted from tullgren funnel | ISTN2582        | Dr T Moulds   |

| Class           | Order          | Family     | Taxon                          | SRE Status | Abundance | Site    | Date     | Collection Method                        | Tracking number | Identified by |
|-----------------|----------------|------------|--------------------------------|------------|-----------|---------|----------|--|-----------------|---------------|
| Arachnida       | Scorpionida    | Buthidae   | <i>Lychas 'harveyi'</i>        | Widespread | 1         | KBSRE16 | 6/06/21  | Active searching and leaf litter sifting | ISTN2608        | Dr T Moulds   |
| Arachnida       | Scorpionida    | Buthidae   | <i>Lychas 'harveyi'</i>        | Widespread | 3         | KBB03   | 15/10/20 | Dry pitfall trapping                     | ISTN2638        | Dr T Moulds   |
| Arachnida       | Scorpionida    | Buthidae   | <i>Lychas 'harveyi'</i>        | Widespread | 1         | KBB06   | 15/10/20 | Dry pitfall trapping                     | ISTN2646        | Dr T Moulds   |
| Arachnida       | Scorpionida    | Buthidae   | <i>Lychas 'harveyi'</i>        | Widespread | 1         | KBB08   | 15/10/20 | Dry pitfall trapping                     | ISTN2651        | Dr T Moulds   |
| Arachnida       | Scorpionida    | Buthidae   | <i>Lychas 'harveyi'</i>        | Widespread | 7         | KBB09   | 15/10/20 | Dry pitfall trapping                     | ISTN2655        | Dr T Moulds   |
| Arachnida       | Scorpionida    | Buthidae   | <i>Lychas 'multipunctatus'</i> | Widespread | 1         | KBSRE23 | 7/06/21  | Active searching and leaf litter sifting | ISTN2552        | Dr T Moulds   |
| Arachnida       | Scorpionida    | Urodacidae | <i>Urodacus megamastigmus</i>  | Widespread | 1         | KBB09   | 15/10/20 | Dry pitfall trapping                     | ISTN2654        | Dr T Moulds   |
| <b>Mollusca</b> |                |            |                                |            |           |         |          |  |                 |               |
| Gastropoda      | Heterobranchia | Camaenidae | <i>Rhagada cf. radleyi</i>     | Widespread | 1         | KBSRE24 | 7/06/21  | Active searching and leaf litter sifting | ISTN2605        | Dr T Moulds   |
| Gastropoda      | Heterobranchia | Camaenidae | <i>Rhagada convicta</i>        | Widespread | 3         | KBSRE04 | 6/06/21  | Active searching and leaf litter sifting | ISTN2511        | Dr T Moulds   |
| Gastropoda      | Heterobranchia | Camaenidae | <i>Rhagada convicta</i>        | Widespread | 2         | KBSRE05 | 6/06/21  | Active searching and leaf litter sifting | ISTN2540        | Dr T Moulds   |
| Gastropoda      | Heterobranchia | Camaenidae | <i>Rhagada convicta</i>        | Widespread | 2         | KBSRE06 | 6/06/21  | Active searching and leaf litter sifting | ISTN2547        | Dr T Moulds   |
| Gastropoda      | Heterobranchia | Camaenidae | <i>Rhagada convicta</i>        | Widespread | 1         | KBSRE07 | 6/06/21  | Active searching and leaf litter sifting | ISTN2519        | Dr T Moulds   |
| Gastropoda      | Heterobranchia | Camaenidae | <i>Rhagada convicta</i>        | Widespread | 1         | KBSRE08 | 6/06/21  | Active searching and leaf litter sifting | ISTN2548        | Dr T Moulds   |
| Gastropoda      | Heterobranchia | Camaenidae | <i>Rhagada convicta</i>        | Widespread | 2         | KBSRE09 | 4/06/21  | Active searching and leaf litter sifting | ISTN2492        | Dr T Moulds   |
| Gastropoda      | Heterobranchia | Camaenidae | <i>Rhagada convicta</i>        | Widespread | 1         | KBSRE10 | 5/06/21  | Active searching and leaf litter sifting | ISTN2541        | Dr T Moulds   |



| Class        | Order          | Family       | Taxon                   | SRE Status | Abundance | Site    | Date    | Collection Method                          | Tracking number | Identified by |
|--------------|----------------|--------------|-------------------------|------------|-----------|---------|---------|--|-----------------|---------------|
| Gastropoda   | Heterobranchia | Camaenidae   | <i>Rhagada convicta</i> | Widespread | 1         | KBSRE11 | 5/06/21 | Active searching and leaf litter sifting   | ISTN2487        | Dr T Moulds   |
| Gastropoda   | Heterobranchia | Camaenidae   | <i>Rhagada convicta</i> | Widespread | 1         | KBSRE12 | 5/06/21 | Active searching and leaf litter sifting   | ISTN2553        | Dr T Moulds   |
| Gastropoda   | Heterobranchia | Camaenidae   | <i>Rhagada convicta</i> | Widespread | 1         | KBSRE13 | 7/06/21 | Active searching and leaf litter sifting   | ISTN2558        | Dr T Moulds   |
| Gastropoda   | Heterobranchia | Camaenidae   | <i>Rhagada convicta</i> | Widespread | 1         | KBSRE24 | 7/06/21 | Active searching and leaf litter sifting   | ISTN2420        | Dr T Moulds   |
| Gastropoda   | Heterobranchia | Camaenidae   | <i>Rhagada convicta</i> | Widespread | 2         | KBSRE27 | 8/07/21 | Active searching and leaf litter sifting   | ISTN2423        | Dr T Moulds   |
| Malacostraca | Isopoda        | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 4         | KBSRE04 | 8/06/21 | Active searching and leaf litter sifting   | ISTN2612B       | Dr S Judd     |
| Malacostraca | Isopoda        | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 1         | KBSRE05 | 9/06/21 | Active searching and leaf litter sifting   | ISTN2610        | Dr S Judd     |
| Malacostraca | Isopoda        | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 5         | KBSRE12 | 5/06/21 | Active searching and leaf litter sifting   | ISTN2567        | Dr S Judd     |
| Malacostraca | Isopoda        | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 1         | KBSRE12 | 5/06/21 | Leaf litter extracted from tullgren funnel | ISTN2575        | Dr S Judd     |
| Malacostraca | Isopoda        | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 2         | KBSRE13 | 7/06/21 | Active searching and leaf litter sifting   | ISTN2615A       | Dr S Judd     |
| Malacostraca | Isopoda        | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 1         | KBSRE16 | 6/06/21 | Leaf litter extracted from tullgren funnel | ISTN2591        | Dr S Judd     |
| Malacostraca | Isopoda        | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 2         | KBSRE16 | 6/06/21 | Active searching and leaf litter sifting   | ISTN2607        | Dr S Judd     |

| Class        | Order   | Family       | Taxon                   | SRE Status | Abundance | Site    | Date     | Collection Method                        | Tracking number | Identified by |
|--------------|---------|--------------|-------------------------|------------|-----------|---------|----------|--|-----------------|---------------|
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 1         | KBSRE19 | 7/06/21  | Active searching and leaf litter sifting | ISTN2556        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 1         | KBSRE25 | 7/06/21  | Active searching and leaf litter sifting | ISTN2572A       | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 9         | KBSRE29 | 8/06/21  | Active searching and leaf litter sifting | ISTN2603        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 12        | KBSRE30 | 8/06/21  | Active searching and leaf litter sifting | ISTN2559        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 10        | KBSRE30 | 8/06/21  | Active searching and leaf litter sifting | ISTN2618        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 1         | KBB02   | 15/10/20 | Dry pitfall trapping                     | ISTN2634        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 8         | KBB03   | 15/10/20 | Dry pitfall trapping                     | ISTN2636        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 1         | KBB06   | 15/10/20 | Dry pitfall trapping                     | ISTN2647        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 2         | KBB08   | 15/10/20 | Dry pitfall trapping                     | ISTN2652        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 10bf | Widespread | 2         | KBB09   | 15/10/20 | Dry pitfall trapping                     | ISTN2656        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 14re | Widespread | 1         | KBSRE02 | 5/06/21  | Active searching and leaf litter sifting | ISTN2564B       | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 14re | Widespread | 4         | KBSRE03 | 6/06/21  | Active searching and leaf litter sifting | ISTN2563B       | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 14re | Widespread | 2         | KBSRE04 | 7/06/21  | Active searching and leaf litter sifting | ISTN2612        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 14re | Widespread | 8         | KBSRE07 | 6/06/21  | Active searching and leaf litter sifting | ISTN2614        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 14re | Widespread | 5         | KBSRE10 | 5/06/21  | Active searching and leaf litter sifting | ISTN2571        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 14re | Widespread | 1         | KBSRE15 | 6/06/21  | Active searching and leaf litter sifting | ISTN2561        | Dr S Judd     |

| Class        | Order   | Family       | Taxon                    | SRE Status | Abundance | Site    | Date     | Collection Method                          | Tracking number | Identified by |
|--------------|---------|--------------|--------------------------|------------|-----------|---------|----------|--|-----------------|---------------|
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 14re  | Widespread | 3         | KBSRE27 | 8/07/21  | Active searching and leaf litter sifting   | ISTN2613        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 14re  | Widespread | 1         | KBSRE28 | 8/06/21  | Active searching and leaf litter sifting   | ISTN2417        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 14re  | Widespread | 2         | KBB04   | 15/10/20 | Dry pitfall trapping                       | ISTN2643        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 35/36 | Possible A | 6         | KBSRE02 | 5/06/21  | Active searching and leaf litter sifting   | ISTN2564A       | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 35/36 | Possible A | 2         | KBSRE02 | 5/06/21  | Leaf litter extracted from tullgren funnel | ISTN2630        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 35/36 | Possible A | 1         | KBSRE03 | 6/06/21  | Active searching and leaf litter sifting   | ISTN2563        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 35/36 | Possible A | 1         | KBSRE03 | 6/06/21  | Leaf litter extracted from tullgren funnel | ISTN2579        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 35/36 | Possible A | 3         | KBSRE08 | 6/06/21  | Leaf litter extracted from tullgren funnel | ISTN2584        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 35/36 | Possible A | 14        | KBSRE13 | 7/06/21  | Leaf litter extracted from tullgren funnel | ISTN2573        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 35/36 | Possible A | 1         | KBSRE13 | 7/06/21  | Active searching and leaf litter sifting   | ISTN2615B       | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 35/36 | Possible A | 2         | KBSRE15 | 6/06/21  | Active searching and leaf litter sifting   | ISTN2560        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 35/36 | Possible A | 1         | KBSRE22 | 7/06/21  | Leaf litter extracted from tullgren funnel | ISTN2593        | Dr S Judd     |
| Malacostraca | Isopoda | Armadillidae | <i>Buddelundia</i> 35/36 | Possible A | 1         | KBSRE24 | 7/06/21  | Active searching and leaf litter sifting   | ISTN2604A       | Dr S Judd     |



| Class            | Order          | Family            | Taxon                                   | SRE Status | Abundance | Site    | Date    | Collection Method                          | Tracking number | Identified by |
|------------------|----------------|-------------------|---|------------|-----------|---------|---------|--|-----------------|---------------|
| Malacostraca     | Isopoda        | Armadillidae      | indet. juvenile/ damaged                | unknown    | 1         | KBSRE07 | 6/06/21 | Leaf litter extracted from tullgren funnel | ISTN2587        | Dr S Judd     |
| Malacostraca     | Isopoda        | Armadillidae      | indet. juvenile/ damaged                | unknown    | 1         | KBSRE11 | 5/06/21 | Leaf litter extracted from tullgren funnel | ISTN2577        | Dr S Judd     |
| Malacostraca     | Isopoda        | Armadillidae      | indet. juvenile/ damaged                | unknown    | 4         | KBSRE13 | 7/06/21 | Leaf litter extracted from tullgren funnel | ISTN2573B       | Dr S Judd     |
| Malacostraca     | Isopoda        | Armadillidae      | indet. juvenile/ damaged                | unknown    | 2         | KBSRE17 | 6/06/21 | Active searching and leaf litter sifting   | ISTN2557        | Dr S Judd     |
| Malacostraca     | Isopoda        | Armadillidae      | indet. juvenile/ damaged                | unknown    | 4         | KBSRE18 | 6/06/21 | Leaf litter extracted from tullgren funnel | ISTN2590        | Dr S Judd     |
| Malacostraca     | Isopoda        | Armadillidae      | indet. juvenile/ damaged                | unknown    | 2         | KBSRE22 | 7/06/21 | Active searching and leaf litter sifting   | ISTN2611        | Dr S Judd     |
| Malacostraca     | Isopoda        | Armadillidae      | indet. juvenile/ damaged                | unknown    | 3         | KBSRE24 | 7/06/21 | Active searching and leaf litter sifting   | ISTN2604B       | Dr S Judd     |
| Malacostraca     | Isopoda        | Armadillidae      | indet. juvenile/ damaged                | unknown    | 1         | KBSRE25 | 7/06/21 | Active searching and leaf litter sifting   | ISTN2572B       | Dr S Judd     |
| Malacostraca     | Isopoda        | Armadillidae      | indet. juvenile/ damaged                | unknown    | 1         | KBSRE25 | 7/06/21 | Leaf litter extracted from tullgren funnel | ISTN2626        | Dr S Judd     |
| Malacostraca     | Isopoda        | Armadillidae      | indet. Juvenile/damaged                 | unknown    | 1         | KBSRE03 | 6/06/21 | Leaf litter extracted from tullgren funnel | ISTN2579B       | Dr S Judd     |
| Malacostraca     | Isopoda        | Philosciidae      | <i>Philosciidae</i> sp. indet. 'Onslow' | Likely     | 3         | KBSRE15 | 6/06/21 | Active searching and leaf litter sifting   | ISTN2562        | Dr S Judd     |
| <b>Myriapoda</b> |                |                   |   |            |           |         |         |  |                 |               |
| Chilopoda        | Geophilomorpha | Mescitocephalidae | <i>Mescitocephalus</i> sp.'IS06'        | Widespread | 1         | KBSRE10 | 5/06/21 | Active searching and leaf litter sifting   | ISTN2570        | Dr T Moulds   |

| Class     | Order             | Family         | Taxon                         | SRE Status | Abundance | Site    | Date     | Collection Method                          | Tracking number | Identified by |
|-----------|-------------------|----------------|-------------------------------|------------|-----------|---------|----------|--|-----------------|---------------|
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Arthrorhabdus mjobergi</i> | Widespread | 1         | KBSRE12 | 5/06/21  | Active searching and leaf litter sifting   | ISTN2554        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Arthrorhabdus mjobergi</i> | Widespread | 1         | KBSRE10 | 5/06/21  | Active searching and leaf litter sifting   | ISTN2568        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Arthrorhabdus mjobergi</i> | Widespread | 1         | KBSRE02 | 5/06/21  | Active searching and leaf litter sifting   | ISTN2542        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Arthrorhabdus mjobergi</i> | Widespread | 1         | KBSRE13 | 7/06/21  | Active searching and leaf litter sifting   | ISTN2617        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Arthrorhabdus mjobergi</i> | Widespread | 1         | KBB10   | 15/10/20 | Dry pitfall trapping                       | ISTN2657        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Cormocephalus turneri</i>  | Widespread | 1         | KBSRE24 | 7/06/21  | Active searching and leaf litter sifting   | ISTN2422        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Cormocephalus turneri</i>  | Widespread | 1         | KBB04   | 15/10/20 | Dry pitfall trapping                       | ISTN2641        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Cryptops</i> sp.'Onslow'   | Possible A | 1         | KBSRE02 | 5/06/21  | Active searching and leaf litter sifting   | ISTN2565        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Cryptops</i> sp.'Onslow'   | Possible A | 1         | KBSRE05 | 6/06/21  | Leaf litter extracted from tullgren funnel | ISTN2629        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Cryptops</i> sp.'Onslow'   | Possible A | 3         | KBSRE08 | 6/06/21  | Active searching and leaf litter sifting   | ISTN2456        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Cryptops</i> sp.'Onslow'   | Possible A | 1         | KBSRE10 | 5/06/21  | Active searching and leaf litter sifting   | ISTN2569        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Cryptops</i> sp.'Onslow'   | Possible A | 2         | KBSRE12 | 5/06/21  | Active searching and leaf litter sifting   | ISTN2566        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Cryptops</i> sp.'Onslow'   | Possible A | 1         | KBSRE13 | 7/06/21  | Leaf litter extracted from tullgren funnel | ISTN2622        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae | <i>Cryptops</i> sp.'Onslow'   | Possible A | 1         | KBSRE13 | 7/06/21  | Active searching and leaf litter sifting   | ISTN2616        | Dr T Moulds   |

| Class     | Order             | Family            | Taxon                          | SRE Status | Abundance | Site    | Date     | Collection Method                          | Tracking number | Identified by |
|-----------|-------------------|-------------------|--------------------------------|------------|-----------|---------|----------|--|-----------------|---------------|
| Chilopoda | Scolopendromorpha | Scolopendridae    | <i>Ethmostigmus curtipes</i>   | Widespread | 1         | KBB08   | 15/10/20 | Dry pitfall trapping                       | ISTN2648        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae    | <i>Scolopendra morsitans</i>   | Widespread | 2         | KBSRE29 | 8/06/21  | Active searching and leaf litter sifting   | ISTN2421        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae    | <i>Scolopendra morsitans</i>   | Widespread | 10        | KBSRE30 | 8/06/21  | Active searching and leaf litter sifting   | ISTN2419        | Dr T Moulds   |
| Chilopoda | Scolopendromorpha | Scolopendridae    | <i>Scolopendra morsitans</i>   | Widespread | 1         | KBB06   | 15/10/20 | Dry pitfall trapping                       | ISTN2645        | Dr T Moulds   |
| Chilopoda | Scutigermorpha    | Scutigerae        | <i>Pilbarascutigera incola</i> | Widespread | 1         | KBSRE03 | 6/06/21  | Active searching and leaf litter sifting   | ISTN2502        | Dr T Moulds   |
| Chilopoda | Scutigermorpha    | Scutigerae        | <i>Pilbarascutigera incola</i> | Widespread | 1         | KBSRE14 | 5/06/21  | Active searching and leaf litter sifting   | ISTN2424        | Dr T Moulds   |
| Chilopoda | Scutigermorpha    | Scutigerae        | <i>Pilbarascutigera incola</i> | Widespread | 1         | KBSRE22 | 7/06/21  | Leaf litter extracted from tullgren funnel | ISTN2633        | Dr T Moulds   |
| Chilopoda | Scutigermorpha    | Scutigerae        | <i>Pilbarascutigera incola</i> | Widespread | 1         | KBSRE25 | 7/06/21  | Active searching and leaf litter sifting   | ISTN2426        | Dr T Moulds   |
| Chilopoda | Scutigermorpha    | Scutigerae        | <i>Pilbarascutigera incola</i> | Widespread | 1         | KBSRE26 | 7/06/21  | Active searching and leaf litter sifting   | ISTN2425        | Dr T Moulds   |
| Chilopoda | Scutigermorpha    | Scutigerae        | <i>Pilbarascutigera incola</i> | Widespread | 1         | KBSRE29 | 8/06/21  | Active searching and leaf litter sifting   | ISTN2602        | Dr T Moulds   |
| Chilopoda | Scutigermorpha    | Scutigerae        | <i>Pilbarascutigera incola</i> | Widespread | 1         | KBB04   | 15/10/20 | Dry pitfall trapping                       | ISTN2640        | Dr T Moulds   |
| Chilopoda | Scutigermorpha    | Scutigerae        | <i>Pilbarascutigera incola</i> | Widespread | 2         | KBB06   | 15/10/20 | Dry pitfall trapping                       | ISTN2644        | Dr T Moulds   |
| Chilopoda | Scutigermorpha    | Scutigerae        | <i>Pilbarascutigera incola</i> | Widespread | 3         | KBB08   | 15/10/20 | Dry pitfall trapping                       | ISTN2649        | Dr T Moulds   |
| Diplopoda | Polydesmida       | Paradoxosomatidae | <i>Antichiropus?</i> juvenile  | Likely     | 2         | KBSRE02 | 5/06/21  | Leaf litter extracted from tullgren funnel | ISTN2631        | Dr T Moulds   |
| Diplopoda | Polyxenida        | Polyxenidae       | <i>Unixenus attemsi</i>        | Widespread | 1         | KBSRE15 | 6/06/21  | Active searching and leaf litter sifting   | ISTN2555        | Dr T Moulds   |
| Diplopoda | Polyxenida        | Polyxenidae       | <i>Unixenus attemsi</i>        | Widespread | 1         | KBSRE16 | 6/06/21  | Active searching and leaf litter sifting   | ISTN2418        | Dr T Moulds   |



| Class     | Order      | Family      | Taxon                         | SRE Status | Abundance | Site    | Date    | Collection Method                          | Tracking number | Identified by |
|-----------|------------|-------------|-------------------------------|------------|-----------|---------|---------|--|-----------------|---------------|
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus attemsi</i>       | Widespread | 1         | KBSRE04 | 6/06/21 | Leaf litter extracted from tullgren funnel | ISTN2623        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus attemsi</i>       | Widespread | 1         | KBSRE08 | 6/06/21 | Leaf litter extracted from tullgren funnel | ISTN2625        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus attemsi</i>       | Widespread | 3         | KBSRE25 | 7/06/21 | Leaf litter extracted from tullgren funnel | ISTN2628        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus cf. mjoebergi</i> | Widespread | 1         | KBSRE15 | 6/06/21 | Active searching and leaf litter sifting   | ISTN2601        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus cf. mjoebergi</i> | Widespread | 1         | KBSRE16 | 6/06/21 | Active searching and leaf litter sifting   | ISTN2606        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus cf. mjoebergi</i> | Widespread | 1         | KBSRE05 | 6/06/21 | Active searching and leaf litter sifting   | ISTN2609        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus cf. mjoebergi</i> | Widespread | 2         | KBSRE26 | 7/06/21 | Leaf litter extracted from tullgren funnel | ISTN2619        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus cf. mjoebergi</i> | Widespread | 4         | KBSRE14 | 5/06/21 | Leaf litter extracted from tullgren funnel | ISTN2624        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus cf. mjoebergi</i> | Widespread | 4         | KBSRE25 | 7/06/21 | Leaf litter extracted from tullgren funnel | ISTN2627        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus cf. mjoebergi</i> | Widespread | 1         | KBSRE06 | 6/06/21 | Leaf litter extracted from tullgren funnel | ISTN2586        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus cf. mjoebergi</i> | Widespread | 1         | KBSRE24 | 7/06/21 | Leaf litter extracted from tullgren funnel | ISTN2589        | Dr T Moulds   |
| Diplopoda | Polyxenida | Polyxenidae | <i>Unixenus cf. mjoebergi</i> | Widespread | 7         | KBSRE26 | 7/06/21 | Leaf litter extracted from tullgren funnel | ISTN2632        | Dr T Moulds   |



# 360

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