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Executive Summary

Mt Weld Mining Pty Limited (Mt Weld) commissioned Stantec Australia Pty Ltd (Stantec) to undertake a two-phase Level 2 and Targeted terrestrial fauna survey (the Survey) of the Mt Weld Rare Earths Project (the Survey Area)

The intent of the Survey is to inform proposed applications to the Environmental Protection Authority (EPA) to modify approval limits on disturbance areas and development envelopes prescribed in Ministerial Statement 476 as relevant to the Mt Weld Rare Earths Project. Stantec understands that Mt Weld will be seeking the modifications in two stages: firstly, via an application under the Section 45C of the Environmental Protection Act, 1986 for an additional 49 ha followed by a separate referral to the EPA under Section 38 of the EP Act for proposed developments including an additional disturbance of 406.97 ha to accommodate Life of Mine activities.

The objective of the Survey was to understand the vertebrate and short-range endemic (SRE) invertebrate values of the Survey Area to support environmental approvals for planned expansion of the Project. The objective was addressed by undertaking a desktop assessment and Level 2 and Targeted terrestrial fauna survey conducted in autumn and spring of 2020, across the Survey Area (3,255 hectares). This follows four Level 1 surveys which have been conducted within sections of the Survey Area since 2011. The resultant significant species data from each survey has been collated and presented within this report.

The desktop assessment comprised nine database searches and the review of 11 previous surveys that were undertaken within or in the vicinity of the Survey Area. Only one of these surveys was a Level 2 survey, which was comparable in scope and size to this Survey.

Survey methods consisted of four systematic sites with 2,912 trap nights utilising pitfall, small Elliott, funnel and cage trapping, as well as avifauna census, motion-sensor camera, echolocation recorder, systematic searching and spotlighting methods. Non-systematic methods comprised targeted searching, motion-sensor camera deployment, opportunistic recording, acoustic bird call recording and bat echolocation recording.

The inventory of 95 species of vertebrate fauna recorded during this Survey represents 34.8% of the total number of species identified from the database searches and fauna surveys undertaken in the vicinity of the Project (n = 273). Species recorded during the Survey comprised of 18 native mammals, five non-native mammals, 52 birds and 20 reptiles (nil amphibians). Eleven species recorded during the Survey were not identified during the desktop assessment; the Ooldea Dunnart, Western Grey Kangaroo, White-striped Freetailed Bat, South-western Free-tailed Bat, Inland Free-tailed Bat, Western Whistler, Whiskered Tern, Mulga Dragon, Dark-spined Blind Snake, Banded Knob-tailed Gecko and the Perentie, none of which were fauna of significance.

Seven broad fauna habitat types were identified within the Survey Area and the land systems in which these habitats occur were considered typical of the East Murchison subregion. Within the Survey Area, the stony rise and outcropping habitats were the most important fauna habitats at a local scale. These habitats were of limited extent within the Survey Area and are important to the Long-tailed Dunnart (P4). These habitats also supported microhabitats including rocky crevices and cracks, important for SRE taxa.

The desktop assessment identified 25 significant fauna species with the potential to occur within the Survey Area comprising six mammals, 18 birds and one reptile. Three of these species were confirmed as occurring during the Survey, comprising:

Long-tailed Dunnart (P4);

Wood Sandpiper (Mi; IA); and

Common Sandpiper (Mi; IA).

Based on the desktop assessment and habitats identified within the Survey Area, an additional 11 species were assessed as possible and eight were assessed as unlikely to occur. The Long-tailed Dunnart was recorded on four occasions during the Survey within the stony rise habitat, its preferred habitat. The species has been recorded during previous surveys on 12 occasions in the vicinity of the Survey Area. The Long-tailed Dunnart was recorded at 25 locations (212 records) on stony rises to the north of the Survey Area from regional deployments of motion-sensor cameras, confirming that the species is present on other stony rises in the region.

Of the species recorded or likely to occur, the Wood Sandpiper and Common Sandpiper are listed as migratory under the EPBC Act and are therefore considered a Matter of National Environmental

Significance (MNES). The Survey Area was determined not to contain any important habitat nor support an ecologically significant proportion of the population of the Wood Sandpiper and Common Sandpiper, due to limited aquatic habitat.

The fauna assemblages within the Survey Area were sampled at systematic trapping sites. Species accumulation curves indicated that between 70% to 100% of the fauna assemblages was captured during the Survey, however further survey effort is likely to result in more avifauna species being recorded. Additional mammal, avifauna and herpetofauna species were recorded from the Survey Area via targeted and opportunistic survey methods that were not captured in the species accumulation curves. The species assemblages recorded during the Survey, recorded a higher number of species than previous surveys undertaken in the vicinity of the Survey Area.

Habitats in the Survey Area were assessed for the potential to support SRE species based on the presence of microhabitats, habitat extent and isolation. Based on these criteria, one habitat; outcropping was assessed as having a high potential to support SRE species. In addition, the shrub plain and stony rise habitat were assessed as having a medium potential to support SRE species.

A total of 20 specimens from groups prone to short-range endemism were collected during the Survey. Of these, six were identified to morphospecies and four taxa were only able to be identified to genus. Although none were known SRE species, the following were considered to represent potential SRE species and were classified as data deficient.

- the mygalomorph spider specimens from the genus Idiosoma sp.;
- the mygalomorph spider specimens from the genus Idiopidae sp.;
- the mygalomorph spider specimen from the genus Proshermacha sp.;
- the slater specimen from the morphospecies Buddelundia '103';
- the slater specimen from the morphospecies Buddelundia '106'; and
- the pseudoscorpion specimen from the morphospecies Synsphyronus 'weld'.

Furthermore, six specimens were collected from the Survey Area in 2014, which were unable to be identified to genus. These comprised two mygalomorph taxa (Aname sp. indet., Aganippe sp. indet) and one scorpion taxa (Urodacus sp. indet). The slater specimens were collected from within the shrub plain habitat which was assessed as having a medium potential to support SRE taxa. The remaining potential SRE specimens were collected from within the widespread mulga on clay loam habitat, which held a low potential to support SRE taxa. To understand their lineage and distribution within the Survey Area and in the broader regional context, more specimens would need to be collected and genetic analysis would be required in some instances.

In summary, the species assemblages recorded during the Survey, represented a higher number of species than previous surveys undertaken in the vicinity of the Survey Area. Three significant terrestrial vertebrate fauna species were recorded during the Survey, the Long-tailed Dunnart, Wood Sandpiper, and Common Sandpiper, and no others were considered 'likely' to occur. The Long-tailed Dunnart was recorded on four occasions during the Survey, and from previous surveys in the vicinity of the Survey Area, the species was regularly recorded within the stony rise and adjacent outcropping habitat. Motion-sensor cameras recorded the Long-tailed Dunnart at 25 locations on stony rises to the north of the Survey Area, suggesting the species persists on other stony rises within the region. The outcropping habitat also supported important microhabitat features for potential SRE species. The Wood Sandpiper and Common Sandpiper were recorded within artificial water sources on cleared habitat within the Survey Area. The other habitats had limited importance to significant fauna and fauna assemblages.

Mt Weld Mining Pty Limited

Mt Weld Rare Earth Project Level 2 and Targeted Terrestrial Fauna Survey

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1. Introduction

1.1 Project Background and Location

Mt Weld Mining Pty Ltd (Mt Weld) has approval to mine, process, and transport rare earth ore from their deposit at the Mt Weld mine site (the Project). Mt Weld commissioned Stantec Australia Pty Ltd (Stantec) to undertake a two-phase Level 2 and Targeted Terrestrial fauna survey (the Survey) within tenements associated with, and adjacent to the Project (the Survey Area). The Survey Area represents two separate areas of land, collectively covering 3,255 ha located approximately 31 km south-east of Laverton, in the Murchison bioregion of Western Australia (**Figure 1-1**).

The intent of the surveys is to inform proposed applications to the Environmental Protection Authority (EPA) to modify approved limits on disturbance areas and development envelopes prescribed in Ministerial Statement 476 as relevant to the Mt Weld Rare Earths Project. Stantec understands that Mt Weld will be seeking the modifications in two stages: firstly, via an application under Section 45C of the Environmental Protection Act, 1986 for an additional 49 ha of disturbance (now approved by EPA) followed by a separate referral to the EPA for clearing an additional 406.97 ha will be submitted to accommodate Life of Mine disturbance.

Several fauna surveys have previously been undertaken in the vicinity of the Survey Area comprising Halpern Glick Maunsell (1999), MWH (2014), Ninox Wildlife Consulting (1992), Outback Ecology (2011), Outback Ecology (2013), Stantec (2018b), and Stantec (2018a). However, additional survey work was required to inform environmental approvals for proposed expansion of the Project. The resultant data from each of these surveys and the Stantec (2020) survey have been collated and used to produce this report.

1.2 Report Scope and Objectives

The objective of the Survey was to understand the vertebrate and short-range endemic (SRE) invertebrate values of the Survey Area, through a desktop assessment and by conducting a dual season field survey, to inform environmental approvals for the Project. This report presents the results of a two-phase field survey and the consolidation of all applicable previous terrestrial fauna and short-range endemic (SRE) fauna surveys for the Project. The scope requirements to meet the objective included the following:

- complete a comprehensive desktop assessment of the Survey Area;
- conduct a dual phase level 2 terrestrial fauna survey to assess the occurrence and likely distribution of fauna assemblages within the Survey Area;
- conduct targeted searches for vertebrate fauna of significance (specifically the Long-tailed Dunnart) and SRE invertebrate fauna in prospective habitats to ascertain their occurrence and distribution;
- identify, describe and map fauna habitats within the Survey Area;
- assess the Survey findings in a local and regional context providing comparison with available data within the bioregion; and
- consolidate previous spatial data and mapping into a single mapping layer that can be used to inform the environmental impact assessment (EIA) for the terrestrial fauna environmental factor.

The objectives and methods adopted for the surveys are aligned with the following relevant regulatory guidelines:

- (EPA 2020b), Technical Guidance: Terrestrial vertebrate fauna surveys for environmental impact assessment;
- (EPA 2020a), EPA Statement of Environmental Principles, Factors and Objectives.
- (EPA 2016a), Environmental Factor Guideline: Terrestrial Fauna;
- (EPA 2016b), Technical Guidance Sampling of short range endemic invertebrate fauna;
- (EPA 2016c), Technical Guidance: Sampling methods for Terrestrial vertebrate fauna;
- (EPA 2016d), Technical Guidance: Terrestrial Fauna Surveys;
- Department of the Environment (DotE 2013), Matters of National Environmental Significance significant impact guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act).
- Survey Guidelines for Australia's Threatened Mammals (DSEWPaC 2011b);
- Survey Guidelines for Australia's Threatened Birds (DEWHA 2010a);
- Survey Guidelines for Australia's Threatened Bats (DEWHA 2010b);
- Survey Guidelines for Australia's Threatened Reptiles (DSEWPaC 2011a); and

	Inherine Chieleline for Drelingings Company of Night Depart (Department of the Chief Night Company)	
•	Interim Guideline for Preliminary Surveys of Night Parrot (<i>Pezoporus occidentalis</i>) in Western Australia (DPaW 2017).	

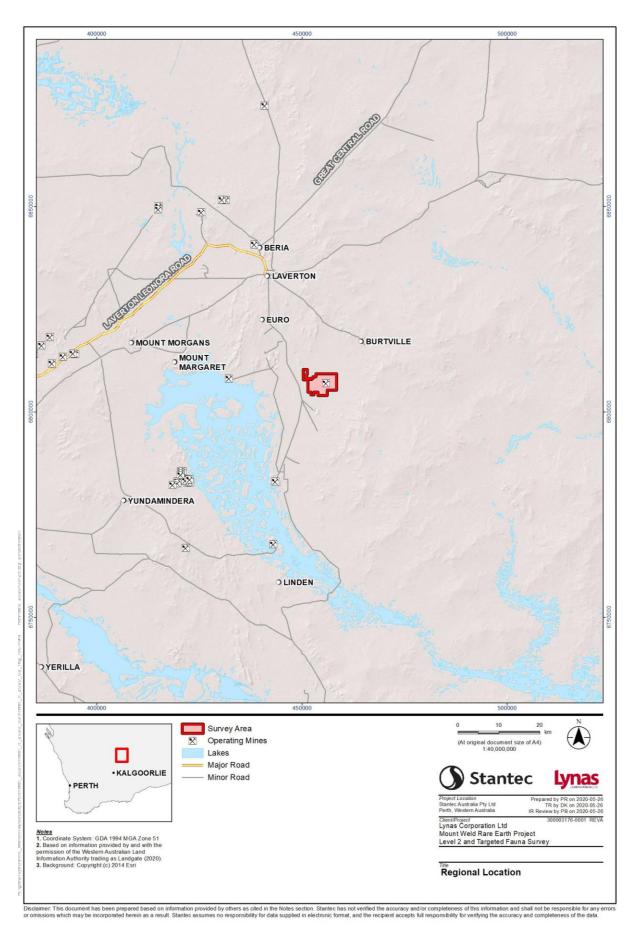


Figure 1-1: Regional location of the Survey Area in the Murchison bioregion of Western Australia

2. Background Information

2.1 Biophysical Environment

2.1.1 Biogeographical location

The Interim Biogeographic Regionalisation for Australia (IBRA) is a bioregional framework that divides Australia into 89 biogeographic regions and 419 subregions on the basis of climate, geology, landforms, vegetation, and fauna (Thackway and Cresswell 1995). It was developed through collaboration between state and territory conservation agencies with coordination by the Commonwealth Department of the Environment, Water, Heritage and the Arts (now the Commonwealth Department of Agriculture, Water and the Environment).

The Survey Area is located in the Murchison bioregion in Western Australia, which covers an area of 281,200 km², with mining and grazing listed as the two main land uses (Australian Natural Resouces Atlas 2010, DotE 2008). The Murchison bioregion encompasses the transitional zone between the eucalypt dominated environment of south-west Australia and the mulga/spinifex dominated areas of central Australia (Morton et al. 1995).

The vegetation in the bioregion is closely associated with geology, soils and climate. Areas of outcropping rock with skeletal soils support low mulga woodlands. Hummock grassland grows predominantly on calcareous soils and samphire (*Tecticornia* sp.) low shrubland mostly on the saline alluvium areas. In the east of the bioregion, the red sandplains support mallee-mulga parkland over hummock grassland (Thackway and Cresswell 1995).

The Survey Area occurs within the Eastern Murchison subregion (MUR1), which consists of extensive areas of elevated red/red-brown desert sandplains with minimal dune development, breakaway complexes and internal drainage and salt lake systems associated with occluded palaeodrainage systems (Cowan et al. 2001). Mulga woodlands rich in ephemeral species dominate the subregion, as well as hummock grasslands, saltbushes and *Tecticornia* shrublands.

2.1.2 Land systems

Land systems are defined as an area or group of areas throughout which there is a recurring pattern of topography, soils and vegetation (Tille 2006). An assessment of land systems provides an indication of the occurrence and distribution of fauna habitats and vegetation within and surrounding the Survey Area.

Land systems across the Murchison bioregion have been mapped by the Natural Resources Assessment Group of the Department of Primary Industries and Regional Development (Pringle et al. 1994). This mapping provides a comprehensive description of biophysical resources in the area.

The Survey Area intersects five land systems (**Table 2-1**; **Figure 2-1**). The Monk and Jundee land systems occupy most of the Survey Area (93%), defined by hardpan plains with gravelly or sandy substrate supporting mulga shrublands. Less than 1% of the Survey Area comprises the Mindura system.

Table 2-1: Description of land systems associated with the Survey Area

Land system	Description	Extent in the b	oioregion	Extent in the Survey Area		
		ha	%	ha	%	
Monk	Hardpan plains with occasional sandy banks supporting mulga tall shrublands and wanderrie grasses	994,703	3.5	2,904	89.2	
Jundee	Hardpan plains with variable gravelly mantles and minor sandy banks supporting weakly groved mulga shrublands	588,270	2.1	123	3.8	
Brooking	Prominent ridges of banded iron formations supporting mulga shrublands and occasional minor halophytic communities	96,066	0.3	113	3.5	
Gundockerta	Extensive, gently undulating calcareous stony plains supporting bluebush shrublands.	329,501	1.2	104	3.2	

Land system	Description	Extent in the I	oioregion	Extent in the Survey Area		
		ha	%	ha	%	
Mindura	Low hills, ridges and outcrops of granite, gneiss and quartz above convex, quartz-strewn interfluves and lower plains supporting sparse acacia shrublands becoming more dense in drainage floors.	380,981	1.4	11	0.3	
Total*		2,389,521	8.5	3,255	100	

^{*}Note: Some totals may not equal the sum of their parts due to rounding.

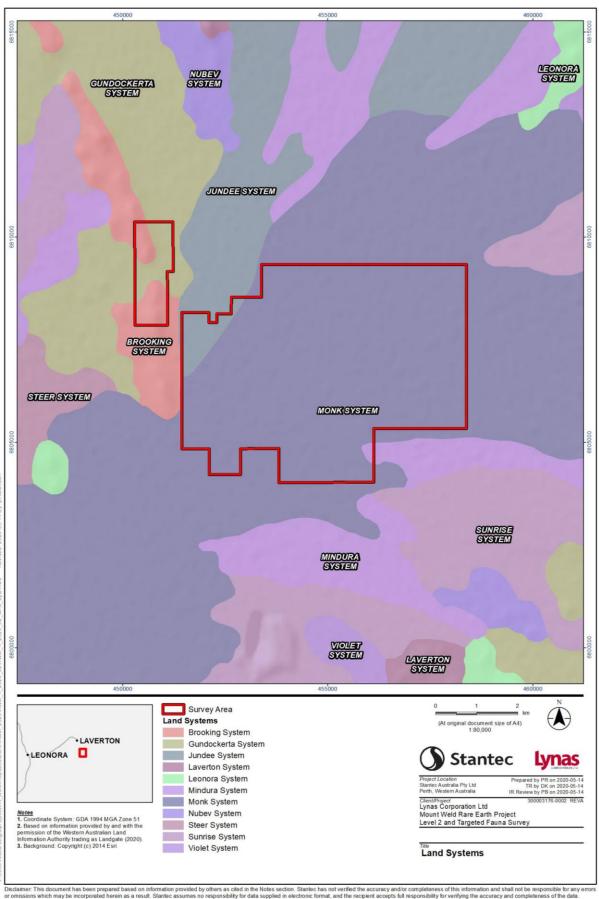


Figure 2-1: Land systems of the Survey Area

2.2 Physical Environment

2.2.1 Climate

The Survey Area is characterised by an arid to semi-arid climate. The closest Bureau of Meteorology (BOM) weather station to the Survey Area, with relevant long-term and recent climatic data is Laverton Weather Station (No. 012045), located approximately 30 km northwest of the Survey Area.

The mean annual rainfall at Laverton is 211 mm, with February usually the wettest month of the year due to rainfall related to ex-tropical cyclone activity off the north-west of Western Australia. Mean monthly temperatures typically peak at approximately 35°C in January (**Figure 2-2**), with mean minimum monthly temperature close to 5°C in July (BoM 2020).

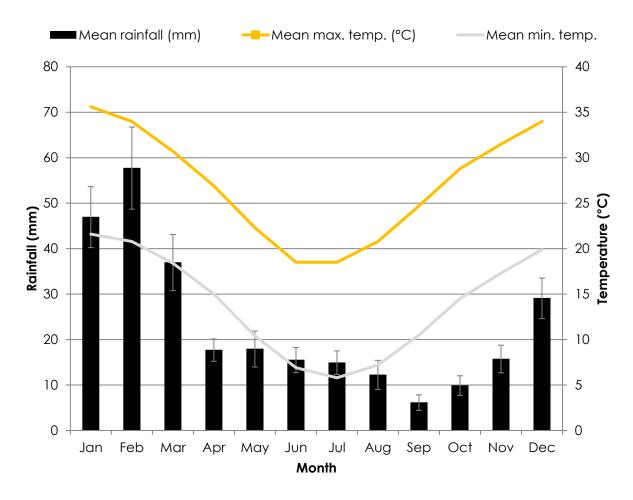


Figure 2-2: Long-term (1899-2020) climate data records from the Laverton weather station (No. 012045) (BoM 2020)

2.2.2 Surface geology and soils

The surface geology of the Survey Area is comprised of two geological units (**Table 2-2**; **Figure 2-3**). These units were mapped at a scale of 1:1,000,000 by Geoscience Australia (2012). A cemented layer of redbrown hardpan has formed across many wash plains; however, sandy and loamy wash plains are also present (DotE 2008). The soils of the MUR1subregion consist of red sandy earths to red loams, red-brown hardpan and calcareous loamy earths in low lying areas, with stony soils found near mesas and breakaway complexes (DotE 2008).

Table 2-2: Geological units occurring within the Survey Area

Name	Geological description	Extent within survey area		
		ha	%	
Colluvium 38491 (Qrc)	Colluvium, sheetwash, talus; gravel piedmonts and aprons over and around bedrock; clay-silt-sand with sheet and nodular kankar; alluvial and aeolian sand-silt-gravel in depressions and broad valleys in Canning Basin; local calcrete, reworked laterite	3102	95.3	
Sedimentary rocks 74322 (Ase)	Phyllitic schist, siltstone, sandstone, greywacke, pelite, conglomerate, quartzite, phyllite, shale, slate, claystone, chert, minor felsic volcanic and volcaniclastic rocks; arkose, para- and orthoamphibolites; rare banded iron formation	153	4.7	
Total		3,255	100	

2.2.3 Surface hydrology and drainage

Broad sheet-flow drainage lines are a feature of the mulga-dominated woodlands of the Survey Area. The landscape exhibits some small low-lying depressions in the northwest, representing the upper reaches of drainage to Lake Carey, approximately 12 km southwest of the Survey Area.

There is no indication of natural permanent surface water within the Survey Area. The Survey Area has altered hydrology in the form of a flood bund in the eastern portion of the Survey Area. This flood bund redirects water flowing from the north, to the south of the mine area.

No Wetlands of International Importance (Ramsar wetlands) or Nationally Important Wetlands occur within the Survey Area. The nearest significant wetland system is Lake Marmion, situated approximately 130 km southeast of the Survey Area (DotE 2019).

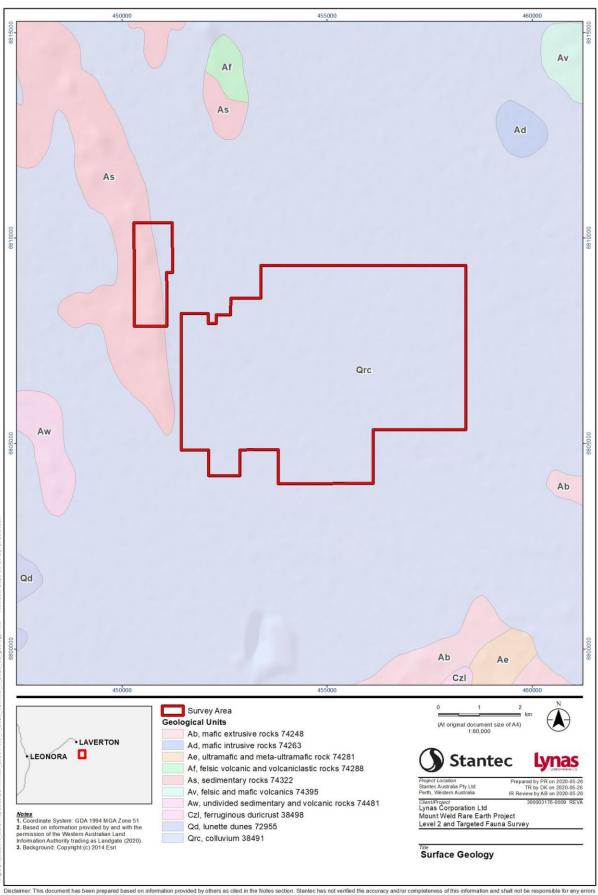
2.2.4 Land tenure and use

The dominant land use (85%) within the East Murchison subregion is grazing of sheep and cattle on native pastures (Australian Natural Resouces Atlas 2010, Cowan et al. 2001). Other land uses include Unallocated Crown Land (UCL), Crown reserves, and mining. Mining in the subregion largely consists of gold and nickel; however most mining lease areas, including the Survey Area, are still required to be stocked, according to the pastoral lands act (Cowan et al. 2001).

2.2.5 Conservation Reserves and Environmentally Sensitive Areas

There are three conservation reserves within 250 km of the Survey Area (**Figure 2-4**). The De La Poer Nature Reserve is approximately 170 km to the north; Goongarrie National Park is 145 km southwest and Wanjarri Nature Reserve is approximately 240 km west-northwest. In addition to Lake Marmion (**Section 2.2.3**), Lake Ballard is 140 km southeast of the Survey Area and is listed as a Proposed Ramsar addition. Several other nature reserves, timber reserves and important wetlands occur within 250 km of the Survey Area (**Figure 2-4**).

The De La Poer Range Nature Reserve (74,935 ha) was gazetted in 1974 (Barton and Cowan 2001) and Goongarrie National Park (60,397 ha) in 1995 and this spans both semi-arid and arid climate zones, characterised by a range of woodlands and mulga shrubland. The Wanjarri Nature Reserve (53,000 ha) is mostly of extensive undulating sandplains featuring sand dunes, with breakaways and low granite hills also common, dominated by spinifex grasslands and a range of habitats supporting threatened wildlife.



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Figure 2-3: Surface geology of the Survey Area

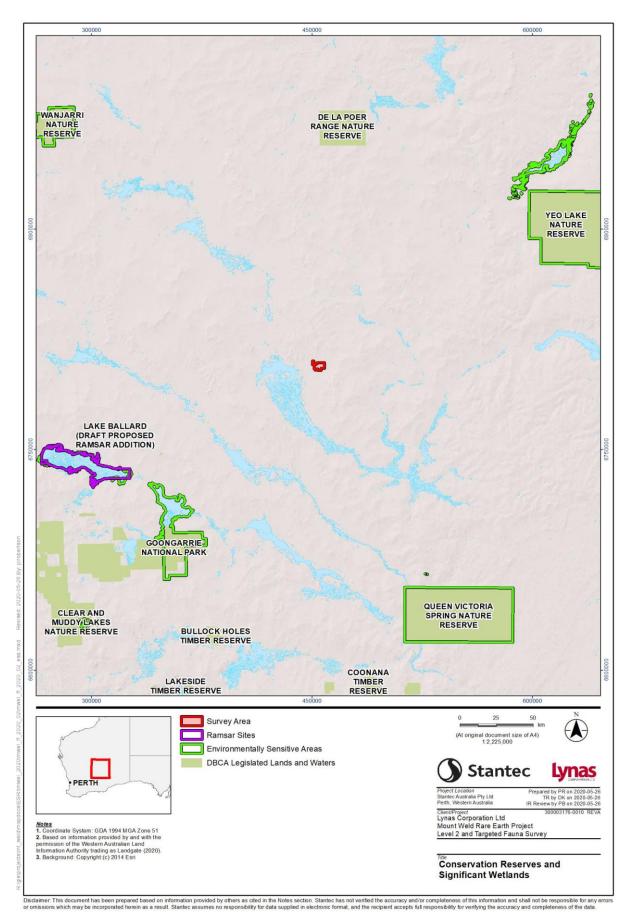


Figure 2-4: Conservation Reserves and Significant Wetlands within 250 km of the Survey Area

Desktop Assessment

A desktop assessment, comprising database searches and a literature review, was undertaken to gather contextual information on the Survey Area. The purpose of the desktop assessment was to identify terrestrial fauna potentially occurring within, and in the vicinity of the Survey Area, particularly species of significance.

Conservation significance and rankings used under the Environmental Protection and Biodiversity Conservation Act 1999 (EPBC Act), Biodiversity Conservation Act 2016 (BC Act), as well as the Departments of Biodiversity, Conservation and Attractions (DBCA) Priority list, are defined in **Appendix A**. The desktop assessment was conducted prior to the release of EPA (2020b) and followed the guidance of EPA (2016d) and EPA (2016c).

3.1 Methods

3.1.1 Database searches

Database searches were completed prior to undertaking Phase 1 of the Survey to generate a list of vertebrate and SRE fauna previously recorded within, and in vicinity of the Survey Area, with an emphasis on species of significance. Nine database searches were conducted according to a central coordinate within the Survey Area (51J 460747 mE, 6815858 mS) (**Table 3-1**). Appropriate search buffers were selected depending on the technical capabilities (maximum buffer, accuracy of data) of the databases and the ecological features of the area. Database search results are presented in **Appendix B**.

Table 3-1: Database searches conducted for the desktop assessment

Custodian	Database name	Method of search	Buffer (km)	Date of receipt
Department of Biodiversity, Conservation and Attractions (DBCA) (2020c)	NatureMap	Central coordinates (51J) • 460748 mE, 6815857 mS	40	11/03/2020
Department of Agriculture, Water and the Environment (DoAWE) (2020b)	Protected Matters Search Tool (PMST)		50	11/03/2020
DBCA (2020b)	Threatened and Priority Fauna		50	18/03/2020
DBCA (2020a)	Threatened Ecological Community (TEC) and Priority Ecological Communities (PEC)		50	26/03/2020
Birdlife Australia (2020)	Birdlife Bird Data		50	18/03/2020
Western Australian Museum (WAM) (2020c)	Arachnid and Myriapod Database	Coordinates (51J) NW corner: 351705 mE, 6901345 mS	100	14/04/2020
WAM (2020d)	Mollusc Database	• SE corner: 553774 mE, 6706115 mS		15/04/2020
Department of Agriculture, Water and the Environment (DoAWE) (2020b)	Index of Biodiversity Surveys for Assessment (IBSA)	Central coordinates (51J) 460748 mE, 6815857 mS	50	15/04/2020
Atlas of Living Australia (ALA)(ALA 2023)	Atlas of Living Australia (ALA)	Central coordinates (51J) 460748 mE, 6815857 mS	50	21/02/2023

3.1.2 Literature review

Background information relating to the Survey Area and surrounds was compiled prior to conducting the field work for the Survey. Historic vegetation mapping (Beard 1975, Shepherd et al. 2002), soil and landform mapping and characteristics (Tille 2006), land system mapping and characteristics (Pringle et al. 1994), and IBRA classification and system information (Cowan et al. 2001) were reviewed to provide broad contextual information.

The literature review considered eight terrestrial fauna surveys previously conducted since 1992, which overlap the Survey Area, summarised in **Table 3-2** and shown in **Figure 3-1**. To assist in providing regional comparison to the results of the Survey, three terrestrial fauna surveys within approximately 60 km were also reviewed (**Table 3-3**).

Table 3-2: Summary of the relevant fauna surveys completed in the vicinity of the Survey Area

Reference	Survey details	Proximity to Survey Area	Survey timing and staff	Survey effort	Fauna habitats	Fauna assemblages recorded	Species of conservation significance (species names and conservation status current at time of survey)	Limitations
Long-tailed Dunnart Monitoring in L38/224: Accommodation Camp Summary (Lynas 2020)	Targeted deployment of motion cameras within potential Long- tailed Dunnart habitat, informed by desktop assessment (Stantec 2018a)	Within – Tenement L38/224	Motion cameras installed between 13 June to 16 October 2019 Adam Cargill	Twenty-seven motion cameras deployed for a minimum of 10 nights each	N/A	N/A	• Long-tailed Dunnart (P4)	None
Mt Weld Long-tailed Dunnart Monitoring (Lynas 2019)	Targeted deployment of motion cameras within potential Long- tailed Dunnart habitat, informed by desktop assessment (Stantec 2018a)	Within - Tenement L38/224	Motion cameras installed between 03 February to 12 June 2019 Adam Cargill	Fifteen motion cameras deployed for a minimum of 10 nights each.	N/A	N/A	• Long-tailed Dunnart (P4)	None
Mt Weld Long-tailed Dunnart Desktop Assessment (Stantec 2018a)	Assessed the potential suitability and importance of the stony rise habitat for the Long-tailed Dunnart within the Survey Area in the context of the surrounds	Within - Tenement L38/224	N/A	N/A	N/A	N/A	N/A	None
Mt Weld Flora, Vegetation and Fauna Review (Stantec 2018b)	Level 1 Flora, Vegetation and Fauna survey and ground truthing	Within - Tenements E38/2558 and E38/2359 and a portion of L38/224, and the proposed TSF	26 and 28 September 2018 Alice Bott Crystal Heydenrych	• 18 habitat assessments	Five broad fauna habitats recorded: • Low mulga woodland on clay loam; • Mulga on clay loam; • Mulga on stony plain; • Shrub plain; and • Stony rise	N/A	None	None
Lynas Corporation Ltd Mt Weld Rare Earths Project: Level 1 Vegetation, Flora and Fauna Survey (MWH 2014)	Level 1 Flora, Vegetation and Fauna survey	Within - Tenement E38/2558	Survey 15 to 18 September 2014 Arnold Slabber Neal Henshaw	Seven habitat assessments Active searches for SRE fauna, scats, tracks and diggings Opportunistic recording Avifauna census	Low mulga woodland over clay loam Mulga on stony loam (adapted from vegetation unit mapping)	A total of 31 vertebrate fauna species was recorded during the survey period, including: 3 mammals (one native); 24 birds; and 4 reptiles.	Six potential SRE specimens collected from three genera: • Aname; • Aganippe; and • Urodachus.	Optimal timing for SRE sampling is during peak rainfall (Nov – Apr).
Lynas Corporation Ltd Mt Weld Rare Earths Project: Level 1 Vegetation, Flora and Fauna Assessment (Outback Ecology 2013)	Level 1 Flora, Vegetation and Fauna survey	Within - Tenement L38/224	Survey from 27 to 29 August 2012 Jeni Alford Michael Young	 Habitat assessments (eight in northern half of Study Area) One bat echolocation recorder deployment location for two nights Spotlighting Active hand searching for fauna in each broad habitat type Two motion cameras deployed for a total of four trap nights 	Four broad habitats recorded: Low mulga woodland on clay loam; Mulga on stony plain; Stony rise; and Shrub plain.	A total of 22 vertebrate fauna recorded, including: 11 mammals, and; 11 birds.	None	Cool conditions potentially limited reptile species detected

Reference	Survey details	Proximity to Survey Area	Survey timing and staff	Survey effort	Fauna habitats	Fauna assemblages recorded	Species of conservation significance (species names and conservation status current at time of survey)	Limitations
Lynas Corporation Ltd Mt Weld Rare Earths Project: Level 1 Terrestrial Fauna Assessment (Outback Ecology 2011)	Level 1 Terrestrial Fauna Assessment	Within - Tenements E38/2558 and E38/2359	Survey from 5 to 7 September 2011 Tamagen Lee- Steere Arnold Slabber	Spotlighting Two motion cameras deployed for four trap nights Two bat unit deployment locations The following was completed at six survey sites representative of habitats in the Study Area: 90 minute searches Avifauna census Spotlighting SRE targeted search Habitat assessment	One broad habitat recorded: • Low mulga woodland over clay loam	A total of 47 vertebrate fauna recorded, including: 15 mammals; 30 birds, and; 2 reptile.	None	Optimal timing for SRE sampling is during peak rainfall (Nov – Apr).
Mt Weld Rare Earths Project: A review of terrestrial vertebrates (Ninox Wildlife Consulting 1992)	Level 1 fauna survey	Within - Tenements E38/2558, E38/2935	22 – 25 April 1991 16 – 19 Dec 1991 NWC principal Technical assistant	Opportunistic site assessment with foot and vehicle transects. 100 box traps set for two nights Spotlighting for two nights One-night bat mist-netting Habitat assessments	Acacia aneura mulga woodland Two stands of Eucalyptus lucasii mallee (note, too small to support distinct community) Small patches of Triodia basedowii (note, too small to support distinct community)	A total of 51 vertebrate fauna recorded: 8 mammals; 35 birds; and 8 reptiles	None	N/A

Table 3-3: Summary of select, relevant regional fauna surveys conducted near the Survey Area

Reference	Study details	Proximity to Survey Area	Survey timing and staff	Survey effort	Fauna habitats	Fauna assemblages recorded	Species of conservation significance (species names and conservation status current at time of survey)	Limitations
Targeted survey for Long-tailed dunnarts for the Granny Deeps Project Area (Terrestrial Ecosystems 2011)	Targeted fauna survey, combined with results from a Level 2 fauna survey of the same area	10 km east	Survey from 5 to 16 April 2011 Scott Thompson Dene Edmunds	840 box traps for 10 nights each	Open mulga woodland over mixed scattered shrubs	N/A	Long-tailed Dunnart (P4)	N/A
Moolart Well, Dogbolter and Erlistoun Gold Projects. Vertebrate Fauna Reconnaissance Survey and Habitat Assessment (Outback Ecology 2006).	Level 1 fauna survey	60 km northeast			 Gravelly mulga woodlands Low hills and ridges Mulga groves Stony plains Gravelly sand plains Sandy alluvial plains Saline alluvial plains Creeklines Minor drainage lines Rocky outcrops 	A total of 38 vertebrate fauna recorded, including: 7 mammals; 28 birds; and 3 reptiles.	• None	
Rosemont Gold Project Biological Assessment Survey – Phases 1 & 2 (Halpern Glick Maunsell 1999)	Level 2 fauna survey	55 km northeast			 Stony plains Low hills and ridges Groves Gravelly sand plains Saline alluvial plains Drainage lines Rocky outcrops 	A total of 101 vertebrate fauna recorded, including: 12 mammals; 67 birds; and 22 reptiles.	• None	

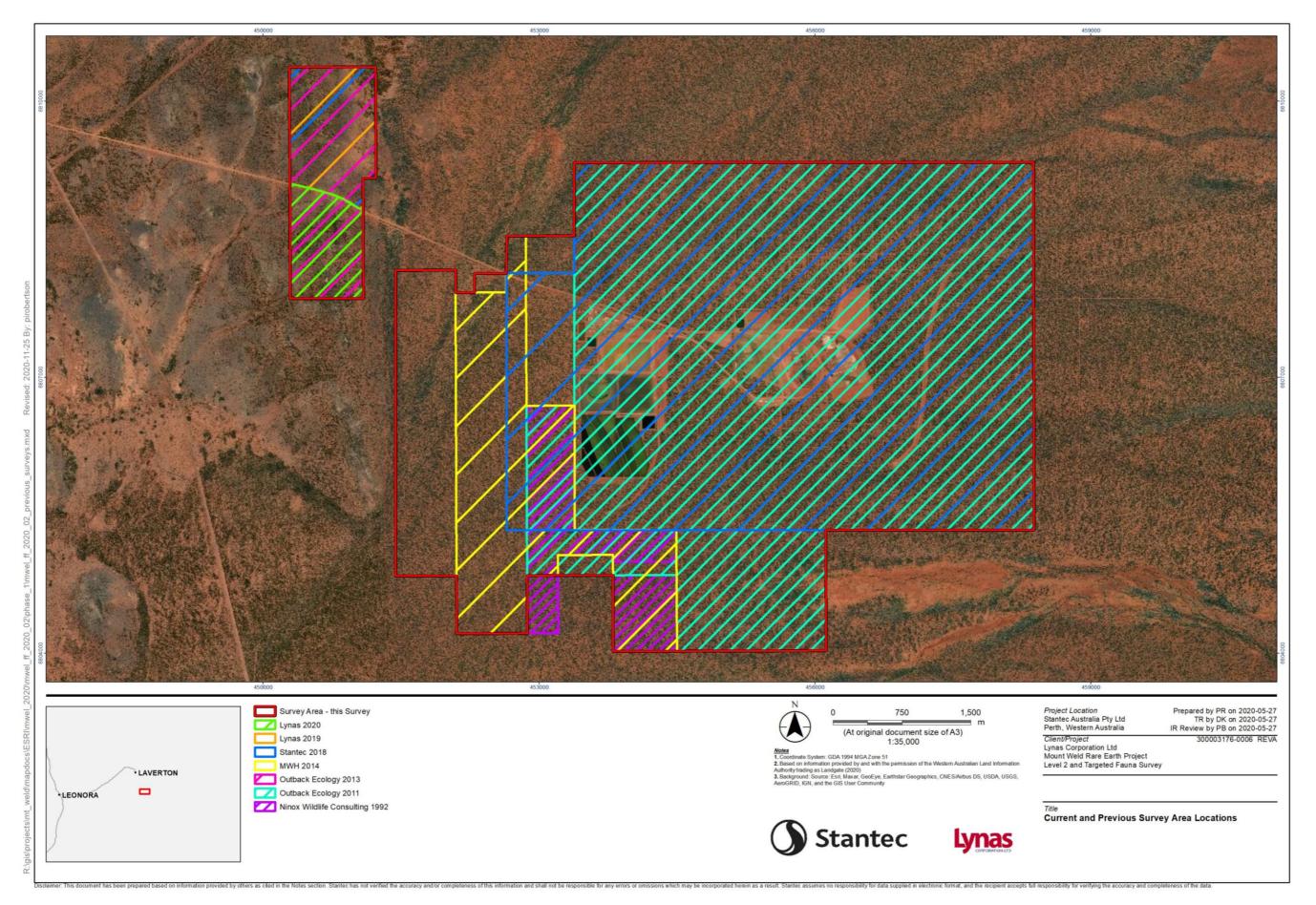


Figure 3-1: Previous fauna surveys identified from the literature review and their proximity to the Survey Area

3.1.3 Likelihood of occurrence of significant fauna

Significant fauna were assessed for their likelihood to occur within the Survey Area (**Section 5.3**), based on proximity, the most recent records and the presence of suitable habitat. The likelihood rankings were assigned using the following criteria:

Confirmed – the species has been recorded unambiguously during the last ten years (i.e. during recent surveys or from reliable records obtained via database searches) in the Survey Area.

Likely – there is a medium to high occurrence that the species uses the Survey Area as it occurs within the known species distribution, contains suitable habitat (either year round or intermittently, such as temporary water sources or features that are only relied upon during certain times of the year e.g. breeding caves) and the species has been recorded recently nearby.

Possible – there is a potential for the species to use the Survey Area as;

- the species has not been recorded recently nearby however;
 - the species may not have been detected during previous surveys e.g. is rare, patchily distributed, highly mobile, or has an extensive forgaing range; and
 - the species is known to be cryptic and may not have been detected despite extensive surveys.
- the species has been recorded recently nearby and species presence cannot be ruled out due to factors such as species ecology or distribution however;
 - doubt remains over taxonomic identification;
 - o the majority of habitat does not appear suitable; and
 - o coordinates are doubtful.

Unlikely – there is an outward potential for the species to use the Survey Area as;

- the Survey Area lacks critical habitat, only supports marginally suitable habitat, or is severely degraded; and/or
- there are few historic record/s and no other current records in the local area.

Not present – the species does not use the Survey Area as;

- the species is not known to occur within the IBRA bioregion based on current literature and distribution;
- the Survey Area lacks important habitat for a species that has highly selective habitat requirements; and
- the species has been historically recorded within Survey Area or locally; however, it is considered locally extinct due to significant habitat changes such as land clearing and/or introduced predators.

3.1.4 SRE classification

Endemism refers to the restriction of a species to a particular area, at a continental, national or local scale (Allen et al. 2002). Harvey (2002) defines a restricted range as a species with a maximum range of 10,000 km². Comprehensive systematic reviews of different faunal groups often reveal the presence of SRE invertebrate species (Harvey et al. 2011). Some better known SRE species have been listed under State or Commonwealth legislation. However, the majority of SRE species have not been listed under legislation, often due to lack of taxonomic knowledge (EPA 2016b). SRE invertebrates in general are considered relevant to environmental impact assessment as habitat loss and degradation can decrease their prospects for persistence (EPA 2016b)

The SRE invertebrate fauna of Western Australia (WA) is typically associated with sheltered and mesic microhabitats, such as the southeast aspect of slopes, trees, boulders and rock piles, outcrops, mesas, drainage systems, deep gorges, natural springs and fire refuges (EPA 2016b). In WA, many terrestrial SRE invertebrate species have Gondwanan origins and are relics of previously widespread species common to the continents of the southern hemisphere during the mesic climates of the Miocene (Harvey 2002). The subsequent aridification of Australia during the Miocene through to the Pleistocene resulted in the fragmentation and contraction of once common mesic habitats. Consequently, populations dependent on these mesic habitats were also fragmented, resulting in the evolution of SRE invertebrate fauna (Harvey 2002).

A combination of intrinsic and extrinsic factors, such as dispersal capabilities or opportunities, habitat preferences, life history attributes, physiological attributes, habitat availability, biotic and abiotic interactions and historical factors, determine not only the geographic distribution of a taxon, but its propensity for population differentiation and speciation (Ponder and Colgan 2002). Taxa prone to short-range endemism tend to share several ecological and life-history characteristics, such as poor powers of

dispersal, confinement to discontinuous habitats, highly seasonal activity patterns and low fecundity (Harvey 2002).

Invertebrate groups prone to short-range endemism that have potential to occur within the Survey Area and that are regularly targeted during SRE surveys across the state include: mygalomorph spiders, selenopid spiders, scorpions, pseudoscorpions, millipedes, slaters and terrestrial snails. Additional invertebrate groups have potential to include SRE species (Harvey 2002), however, these groups are generally considered beyond the requirements of fauna surveys for environmental impact assessments. Taxonomists at the WAM have developed criteria for explaining the degree of certainty surrounding the SRE status of a specimen where specific knowledge gaps exist, such as:

- unknown geographic distribution of a species due to patchy/limited sampling;
- limited taxonomic resolution due to limited knowledge of a particular group or a lack of specialist skills; and
- specimens are of an inappropriate life stage or sex to allow for accurate identification to species level.

These categories will be used to provide context to specimens collected during this Survey (Table 3-4).

Table 3-4: Western Australian Museum short-range endemism classification

SRE category	Criteria	Typical representatives
Confirmed	 Confirmed or almost certainly SRE; Taxonomy is well known (but not necessarily published Group is well represented in collections (in particular from the region in question) High levels of endemism exist in documented species of the genus/family. Inference is often possible from immature specimens based on locality 	 Anticiropus millipedes (Paradoxosomatidae) Aops scorpions (Urodacidae)
Likely	 Taxonomically poorly resolved group. Unusual morphology related to poor dispersal for that group e.g. troglomorphism. Often singletons in surveys. Few, if any, regional records 	 Opiliones in the genus Dampetrus Some pseudoscorpions Schizomids Some slaters (Philosciidae) Karaops spiders (Selenopidae)
Potential	 Taxonomically poorly resolved group (or specimen cannot be identified to species level) Often common in certain microhabitats in SRE surveys (i.e. litter dwellers) Other species within the genus might be widespread 	Many mygalomorph spidersSome centipedesSome pseudoscorpions
Unlikely	Cannot be identified to species level and taxonomy uncertain, but experience suggests the distribution is unlikely to be restricted	Indolpium pseudoscorpions
Unknown	So little is known that it does not allow for any suggestion of geographic distribution	• Acari
Widespread	Taxonomy well understood Common and known from areas larger than 10,000 km²	 The spider Gaius villosus (Idiopidae) The millipede Austrostrophus stictopygus

3.2 Results and Discussion

3.2.1 Vertebrate fauna

The desktop assessment (including database searches and the literature review), identified a total of 273 species of vertebrate fauna, which have previously been recorded and/or have the potential to occur within the Survey Area (**Table 3-5**; **Appendix C**). These comprised the following:

- 26 native mammals;
- 12 non-native mammals;
- 152 birds;
- 78 reptiles; and
- 5 amphibians.

Many of the species identified are considered unlikely to occur in the Survey Area, due to a lack of suitable or comparable habitat based on available records. In addition, small, common, ground-dwelling reptile and mammal species tend to be patchily distributed even where appropriate habitats exist, and many species of birds can occur as regular migrants, occasional visitors or vagrants.

Three invertebrate species of significance, all fairy shrimp have also been recorded in the vicinity of the Survey Area. These were Branchinella apophysata, Branchinella simplex and Branchinella denticulata. As these species have been recorded from Lake Carey or its peripheral wetlands, and the Survey Area does not contain suitable aquatic habitat, they have been excluded from the likelihood assessment.

Table 3-5: Summary of vertebrate fauna identified during the desktop assessment

		Rele	vant Reg	jional Rep	oorts		Relevant Database Searches				
Faunal Group	(MWH 2014)	(Outback Ecology 2013)	(Outback Ecology 2011)	(Outback Ecology 2006)	(Halpern Glick Maunsell 1999)	(Ninox Wildlife Consulfing 1992)	(Birdlife Australia 2020)	(DBCA 2020b)	(DoAWE 2020b)	(DBCA 2020c)	(ALA 2023)
Mammals	1	8	6	3	3	3	0	5	1	19	4
Mammals (non- native)	2	2	8	4	8	5	0	0	9	4	2
Birds	25	11	31	28	68	35	123	9	15	107	71
Reptiles	4	0	2	3	21	18	0	1	0	65	41
Amphibians	0	0	0	0	0	0	0	0	0	5	0
Total	32	21	47	38	100	61	123	15	25	200	118

3.2.2 Significant vertebrate fauna

Of the 273 species of vertebrate fauna identified as being previously recorded and/or having the potential to occur within the Survey Area, 25 were significant fauna, comprising six mammals, 18 birds, and one reptile species (**Table 3-6**). Of these, only the Long-tailed Dunnart (P4) has previously been recorded from within the Survey Area.

Table 3-6: Significant vertebrate fauna species identified during the desktop assessment

Scientific Name	Common Name	EPBC Listing	WA Listing
Mammals			
Myrmecobius fasiatus	Numbat	En	EN
Macrotis lagotis	Bilby	Vu	VU
Lagostrophus fasciatus fasciatus	Banded Hare-wallaby	Vυ	VU
Dasyurus geoffroii	Chuditch	Vυ	VU
Sminthopsis longicaudata	Long-tailed Dunnart		P4
Dasycercus blythi	Brush-tailed Mulgara		P4
Birds			
Pezoporus occidentalis	Night Parrot	En	CR
Leipoa ocellata	Malleefowl	Vυ	VU
Polytelis alexandrae	Princess Parrot	Vυ	P4
Apus pacificus	Fork-tailed Swift	Mi	IA
Actitis hypoleucos	Common Sandpiper	Mi	IA
Calidris ruficollis	Red-necked Stint	Mi	IA
Gelochelidon nilotica	Gull-billed Tern	Mi	IA
Plegadis falcinellus	Glossy Ibis	Mi	IA
Ardea modesta	Eastern Great Egret	Mi	IA
Charadrius veredus	Oriental Plover	Mi	IA
Thinornis cucullatus	Hooded Plover	Mi	IA
Tringa glareola	Wood Sandpiper	Mi	IA
Tringa nebularia	Common Greenshank	Mi	IA
Calidris acuminata	Sharp-tailed Sandpiper	Mi	IA
Calidris melanotos	Pectoral Sandpiper	Mi	IA
Motacilla flava	Yellow Wagtail	Mi	IA
Motacilla cinerea	Grey Wagtail	Mi	IA
Falco peregrinus	Peregrine Falcon		S
Reptiles			
Liopholis kintorei	Great Desert Skink	Vυ	VU

3.2.3 Short-range invertebrate fauna

A total of nine SRE invertebrate taxa were returned from the WAM Arachnid and Myriapod database, and the Mollusc (land snail) database (**Table 3-7**; **Appendix B**). Only specimens identified to species or morphospecies are presented, as it is not possible to determine species distribution based on genus only.

The taxa were filtered by the WAM to include only those species with known distributions of less than 10,000 km² and were limited to terrestrial invertebrates from groups associated with SRE species in the Murchison bioregion (mygalomorph spiders, selenopid spiders, scorpions, pseudoscorpions, millipedes and terrestrial snails). These comprised the following species counts from target groups within 100 km of the Survey Area (excluding slaters where there is no current database):

- 6 mygalomorph spiders;
- 2 scorpions; and
- 1 pseudoscorpion.

Six invertebrate specimens have been previously collected from within the Survey Area, three of which are additional to those returned by the WAM database search (**Table 3-7**). These mygalomorph specimens were not adult males and could therefore not be identified to species level.

Table 3-7: SRE invertebrates returned by the desktop assessment within 100 km of the Survey Area

Group	Family	Genus	Species
Mygalomorph spiders	Anamidae	Aname	`glenorne sp. 2`
		Aname	`MYG629`
		Aname	sp. indet.*
	Nemesiidae	Proshermacha	`MYG504`
		Teyl	`MYG444`
	Barychelidae	Synothele	yundamindra
	Idiopidae	Eucyrtops	eremaeus
		Aganippe	sp. indet.*
Scorpions	Urodacidae	Urodacus	`gibson 1?`
		Urodacus	`pale complex`
		Urodacus	sp. indet.*
Pseudoscorpions	Chernetidae	Tyrannnochthonius	`Helens Bore`

^{*} Denotes specimens that have been collected from within the Survey Area.

4. Survey

4.1 Methods

4.1.1 Survey team and licensing

Field work was conducted by experienced zoologists comprising Melissa Jensen (technical lead) and Stephanie Williams (survey lead) (**Table 4-1**). All field team members have sound technical knowledge and experience undertaking ecological assessments throughout Western Australia. Bat echolocation recordings were analysed by Robert Bullen, a bat specialist from BatCall WA. Bird acoustic recordings were analysed by Nigel Jackett, an ornithologist specialising in analysing Night Parrot recordings. The field work was conducted under DBCA Regulation 27 Licence BA27000232, issued on 23/03/2020. Phase 1 of the survey was conducted under EPA (2016c) and EPA (2016d) guidance as it predated the release of EPA (2020b). Phase 2 was conducted under the guidance of EPA (2020b).

Table 4-1: Survey teams

Personnel	sonnel Qualifications		Years' Experience		
Phase 1: 27 March – 6 April 2020					
Melissa Jensen	First Class Honours (Ecology) BAppSc (Wildlife Science)	Technical Lead	11		
Stephanie Williams	BSc (Conservation Biology and Zoology), BSc (Biomedical Science)		2		
Phase 2: 14 September – 23 September					
Melissa Jensen	First Class Honours (Ecology) BAppSc (Wildlife Science)	Technical Lead	11		
Stephanie Williams	BSc (Conservation Biology and Zoology), BSc (Biomedical Science)	Survey Lead	2		

4.1.2 Survey timing

The Level 2 phase 1 survey was conducted from 27 March to 6 April 2020, within the optimal time for a vertebrate fauna survey, which is following maximum rainfall for the region (EPA 2020b). For the Murchison bioregion, this is generally in summer and autumn (September to April). The Survey was conducted outside the breeding season of the Long-tailed Dunnart (October to December) and within peak offspring dispersal for the species (March to April) (van Dyck and Strahan 2008, WAM 2020b, Woolley and Valente 1986). The phase 2 survey was conducted in spring during September 2020, optimal timing for reptiles in the Eremaean province (EPA 2016c).

Rainfall recorded onsite via the mine weather station in the six months prior to phase 1 of the survey (74 mm) was well below the long-term average (109.6 mm), in comparison to the Laverton BoM weather station (No. 012045) (**Table 4-2**). The total rainfall for February was 3.6 mm, approximately 89% lower than the long-term average for that month (31.4 mm).

Monthly rainfall at the Project for the 12 months preceding the Phase 2 survey (124.8 mm) was half the long-term average recorded at the Laverton weather station (246.2 mm) (Figure 4-1). Only January and August 2020 received rainfall greater than the long-term average (Figure 4-1). The above average rainfall in January can be attributed to 51.6 mm being recorded between 9 and 10 January 2020, associated with an ex-tropical cyclone. Phase 1 was conducted 11 weeks after this rainfall event.

During the field surveys, the weather conditions were typical for the time of year. Rainfall (0.4 mm) was recorded on the fifth day (31/03/2020) only. Maximum daily temperatures ranged from 24.7°C to 35.8°C, while minimum daily temperatures ranged from 11.1°C to 21.2°C (**Table 4-2**). During the phase 2 survey, maximum daily temperatures ranged from 18.6°C to 30.7°C, while minimum daily temperatures ranged from 3.2°C to 21.7°C (**Table 4-2**).

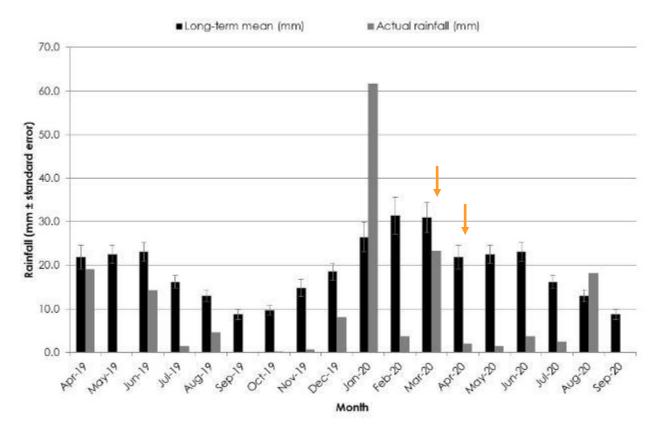


Figure 4-1: Long-term (1994-2020) mean monthly rainfall (mm) at Laverton BoM weather station (No. 012045) and the monthly rainfall (mm) on site preceding Phase 1 and Phase 2 field surveys (orange arrows indicate survey timing)

Table 4-2: Temperatures and rainfall recorded during Phase 1 and Phase 2 field surveys

Data	Temperature (°C)		Desire feell (seems)	Relative Humidity (%)		
Date	Min	Max	Rainfall (mm)	Min	Max	
Phase 1						
27-03-2020	15.2	31.5	0.0	22	71.2	
28-03-2020	19.6	35.8	0.0	13.3	41.3	
29-03-2020	21.2	34.8	0.0	17.2	51.0	
30-03-2020	15.4	27.2	0.0	36.8	76.0	
31-03-2020	16.5	29.5	0.4	24.3	65.5	
01-04-2020	15.1	27.1	0.0	33.2	82.2	
02-04-2020	19.3	28.0	0.0	22.7	50.7	
03-04-2020	15.5	31.9	0.0	21.0	69.3	
04-04-2020	11.1	24.7	0.0	23.2	63.7	
05-04-2020	13.7	24.9	0.0	22.2	51.0	
06-04-2020	18.3	25.7	0.0	19.8	45.0	
Phase 2						
14-09-2020	10.6	23.5	0.0	14.7	59.3	
15-09-2020	17.7	28.4	0.0	19.7	36.5	
16-09-2020	21.7	29.1	0.0	18	27.8	
17-09-2020	10	29.7	0.0	19.3	72	
18-09-2020	6.9	18.6	0.0	35	81.7	
19-09-2020	7.4	23.1	0.0	20.3	73.5	
20-09-2020	9.8	30.7	0.0	5.5	54.3	
21-09-2020	8.6	19.6	0.0	22.3	66	
22-09-2020	3.2	20.5	0.0	23.8	53.7	
23-09-2020	7.6	23.5	0.0	17.5	57.2	

4.1.3 Sampling techniques

4.1.3.1 Habitat assessment and mapping

Prior to the field work for the Survey, fauna habitats and mapping identified in Stantec (2019) were reviewed in conjunction with aerial photography, satellite imagery and topographical maps. The extent of these habitat types was ground-truthed and representative areas were selected for detailed habitat assessment. Habitat assessments were undertaken to characterise the quality and complexity of habitat provided for fauna focusing on significant fauna. A total of 10 fauna habitat assessments were undertaken within the Survey Area (Figure 4-3; Appendix D). At each assessment location, the following key habitat parameters were recorded:

- landscape and geological (substrata) features;
- vegetation cover, condition and species composition;
- the presence or absence of woody debris, leaf litter, hollows, outcropping or other habitat structures;
- ground cover and composition;
- hydrological features such as the presence or absence of drainage line and surface water;
- types of disturbance and levels of disturbance; and
- any significant microhabitat features, such as caves or water sources, were also recorded and where applicable sampled via opportunistic or targeted survey methods.

4.1.3.2 Site selection

Following the review of habitats by Stantec (2019), sites for systematic sampling (**Section 4.1.3.3**) and targeted survey effort (**Section 4.1.4**) were identified. The indicative location of sampling sites broadly follows a stratified random sampling design, capturing the main broad habitat types in the Survey Area while also:

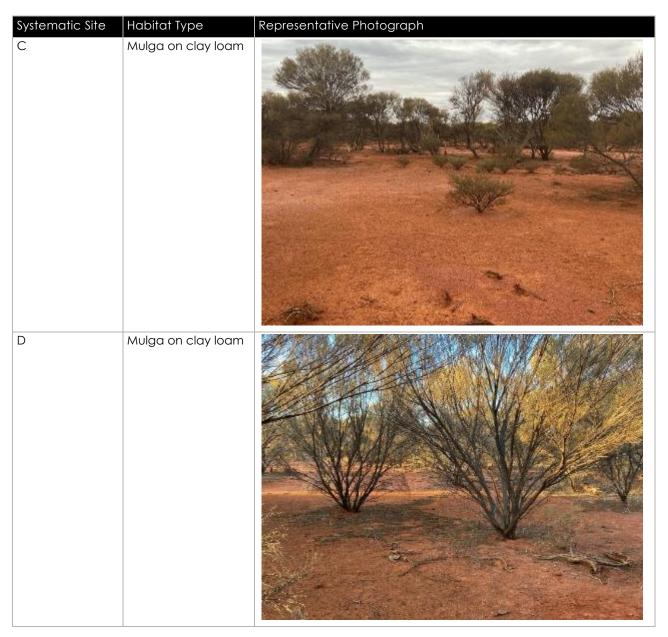
- maximising coverage and diversity of habitats/landforms;
- considering accessibility and the likelihood of supporting significant fauna; and
- avoiding heavily disturbed areas where possible.

4.1.3.3 Systematic sampling

Four sites were established within the Survey Area, in three broad habitats comprising stony rise, mulga on clay loam, and shrub plain habitat types (**Table 4-3**). Systematic sites were established within the main habitats represented within the Survey Area to gain an understanding of the fauna assemblages present. The sampling program implemented at each of these sites consisted of standardised trapping, fixed-time avifauna census, systematic searching, nocturnal spotlighting, motion-sensor camera deployments and bat echolocation recordings. A detailed breakdown of the survey effort expended at each site is provided in **Section 4.1.7.**

Table 4-3: Systematic trapping sites sampled during the field work for the Survey

Systematic Site	Habitat Type	Representative Photograph
A	Shrub plain	
В	Stony rise	



4.1.3.4 Systematic trapping

A standardised trapping grid was established at each systematic site during the field work for the Survey, to capture terrestrial mammals, reptiles and amphibians (**Figure 4-2**). Each trapping grid comprised two drift fences; 40 cm high and 50 m long, set into the substrate. The following was installed along the drift fences within each standard trapping grid:

- two types of pitfall traps: five standard 20 L PVC buckets and five PVC pipe traps (15 cm in diameter and 50 cm deep). Pitfall traps were set flush with the surface of the ground, with drift fence running through the centre.
- twenty funnel traps measuring 75 cm x 18 cm x 18 cm were placed with one side pressed firmly against the fence in pairs.
- twenty baited small Elliott box traps (9 cm x 10 cm x 33 cm) and two Sheffield cage traps (31 cm x 31 cm x 70 cm) were positioned in the trap line surrounds. To protect animals from heat stress, Elliott and Sheffield traps were placed in shaded locations where possible and covered with vegetation and/or custom-made shade covers. Elliott and Sheffield traps were baited with universal bait (a mixture of oats, peanut butter and sardines).

Traps were left open overnight and checked early the following morning for seven nights each, for a total trapping effort of 364 trap nights per site, equating to 1,456 trapping nights per phase, with a combined total of 2,912 trap nights conducted for the Survey (**Table 4-5**).

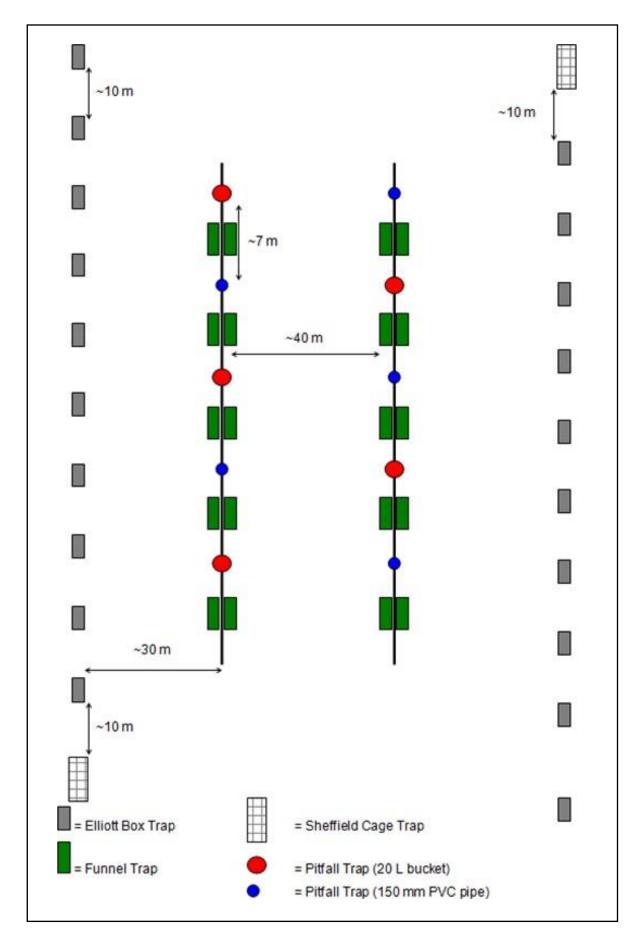


Figure 4-2: Layout of standardised trapping grid deployed at each systematic trapping site

4.1.3.5 Avifauna census

A 20-minute avifauna census was conducted at each systematic site on each day of trapping during the field work for the Survey. Each avifauna census was conducted between 6:30 am and 11:00 am while undertaking trap clearing activities. During each census, sightings, calls or other indirect signs of bird presence i.e. feathers, scats, nests were recorded. A total of 280 minutes of avifauna census was conducted at each site during the field work for the Survey (**Table 4-5**).

4.1.3.6 Systematic searches

Systematic diurnal searching for vertebrate fauna was conducted at each systematic site. This technique allows for the observation of species that are unlikely to be trapped because of their biology or behaviour (e.g. large individuals or diurnal species that are inactive when traps are open at night and/or species that don't forage far from specific habitat features). The specific methods employed included identification of active animals, investigating crevices, overturning logs and stones, searching beneath the bark of dead trees, investigating burrows and recording tracks, diggings, scats and other indirect signs. Systematic searches were performed at each systematic site for a total of 160 person minutes per site during each phase, totalling 640 person minutes for the Survey (Table 4-5).

4.1.3.7 Spotlighting and head-torching

Spotlighting was conducted using head torches and vehicle headlights to identify nocturnal species that were unlikely to be trapped, such as nocturnal bird species, frogs and some reptiles. Spotlighting was conducted for a total of 40 person minutes at each systematic site during the field work for the Survey (**Table 4-5**).

4.1.3.8 Motion-sensor cameras

Two motion-sensor cameras (Reconyx HF2X) were deployed at each systematic site for seven consecutive nights and baited with universal bait (**Table 4-5**). Motion-sensor cameras were used to document the presence of vertebrate fauna that are rarely captured via other trapping methods or systematic searches, due to size, general behaviour or trapability, such as macropods and large carnivores.

4.1.3.9 Bat echolocation recorders

Bat recordings were captured using SM4 (Wildlife Acoustics, Inc.) ultrasonic bat recorders fitted with an external omnidirectional SMM-U1 ultrasonic microphone. Each unit was preconfigured to activate at astronomical sunset each day and deactivate at astronomical sunrise the following morning, coinciding with peak bat activity times. One unit was deployed at each systematic site for two nights (**Table 4-5**) and echolocation recordings were analysed by BatCall WA to develop a species inventory per systematic site.

4.1.4 Targeted methods

4.1.4.1 Long-tailed Dunnart motion-sensor cameras

Motion-sensor cameras were established to target the Long-tailed Dunnart at 32 locations across four areas of suitable habitat within the Survey Area during Phase 1 (**Figure 4-3**). These were deployed in suitable habitat, such as outcropping and stony rises. Each camera was baited with universal bait. The motion-sensor cameras were deployed for a period of between three and five nights between the 31st March and 5th April, for a total of 144 motion-sensor camera nights. An additional 32 motion-sensor cameras were deployed from 19 September to 11 October in Phase 2, for a total of 736 motion-sensor camera nights, on stony rises and outcropping to the north of the Survey Area to determine the presence of Long-tailed Dunnart in the wider region (**Figure 4-3**).

4.1.4.2 Bat echolocation recorders

In addition to bat echolocation units deployed at systematic sites, targeted bat echolocation units were deployed at one location for 3 nights during Phase 1 and at three locations for 5-6 nights during Phase 2 to opportunistically supplement survey effort (**Figure 4-3**). The units were deployed adjacent to a permanent water source in most cases.

4.1.4.3 Bird acoustic recording units

Bird acoustic recording units were deployed within the Survey Area to target the Night Parrot (**Figure 4-3**). The desktop assessment determined the Night Parrot to be unlikely to occur based on a lack of previous records and no suitable habitat present within the Survey Area. Recording units were deployed as a precautionary approach given the recent attention the species has received from regulators. Four acoustic SM4 Mini (Wildlife Acoustics Inc.) units were deployed in phase 2 of the Survey. Units were spread throughout habitats considered to be low potential to achieve geographical spread within the Survey

Area. Three units were deployed in the mulga on clay loam habitat, and one unit was deployed in the mulga on stony plain habitat (**Figure 4-3**). Each unit was deployed for six nights in line with the 2017 Interim Guidelines (DPaW 2017). Units were set to begin recording one hour prior to sunset and to finish recording one hour after sunrise. This targeted peak calling time for non-breeding individuals, which tend to call within two hours after sunset and within two hours before sunrise. This also allowed for the capture of potential calls associated with breeding birds, which may occur throughout the night and closer to sunset and sunrise (DPaW 2017).

4.1.4.4 Avifauna census

Targeted avifauna census' were conducted for 20 minutes in prospective habitats. During each census, sightings, calls or other indirect signs of bird presence i.e. feathers, scats, nests were recorded. Three targeted avifauna census' were conducted at three locations at permanent water sources, totalling 60 minutes, within the Survey Area (**Figure 4-3**).

4.1.4.5 Targeted searches

A likelihood of occurrence assessment was conducted for significant fauna identified during the desktop assessment (Section 3.2.2). Where significant species were assessed as confirmed, likely or possible to occur within the Survey Area and where suitable habitat was present, targeted searches were undertaken in accordance with the methods presented within Table 4-4. Evidence that was recorded included: visual observations, mounds, tracks, scats, feathers and carcasses. Any evidence discovered while conducting the searches was recorded using in-field data collection application, and waypoints taken. Targeted survey effort is presented within Figure 4-3.

4.1.5 Opportunistic records

Vertebrate fauna observed outside of the systematic and targeted sampling during the field work for the Survey were documented and the resulting records were classified as 'opportunistic' within the Survey Area. Opportunistic records can be direct, such as from visual or aural observations, or indirect, such as from locating bones, carcasses, tracks, scats, burrows or nests. Opportunistic records were generated from observations made as follows:

- before or after the fixed-time systematic searches or bird censuses;
- during trap line establishment;
- while travelling to and from survey sites; and
- at any time while working in or travelling within the Survey Area.

4.1.6 Short-range endemic invertebrates

4.1.6.1 SRE habitat assessments

Habitat assessments form an important component of terrestrial SRE surveys. This is because a risk-based approach that uses habitat as a surrogate to infer a species distribution may be required in situations where SRE species are only recorded from planned impact areas. A risk-based approach will be considered by the (EPA 2016b) under the following conditions:

- a potential SRE taxon is represented by one or few specimens from only within proposed development areas:
- contextual data on the wider distribution and status of the taxon is unavailable from the WAM or the DBCA; and
- additional targeted surveys appear unlikely to yield results in a reasonable timeframe.

Additional habitat information was collected at each of the SRE sites to better understand the potential for these habitats to support SRE species. The SRE habitat assessment was undertaken in an area of approximately $50 \times 50 \, \text{m}$, with the following information recorded:

- landform;
- outcropping;
- soil type;
- broad vegetation type;
- litter cover and shade cover;
- existing disturbance; and
- the level of physical connectivity to similar sites in the landscape.

There are no prescriptive guidelines to identify the habitats that must be searched when looking for potential SRE taxa, although the most prospective habitats tend to be those that are sheltered, isolated or both (EPA 2016b).

4.1.6.2 Collection techniques

The SRE survey methods involved targeted searches and collection of invertebrate specimens from dry pitfall traps and funnels used during the systematic sampling methods during the field work for the Survey. The techniques used for collecting SRE taxa are aligned with the recommendations made by the EPA (2016b) and endorsed by invertebrate SRE specialists of the WAM and DBCA. Specimens were collected if they were from the following SRE prospective groups; mygalomorph spiders, selenopid spiders, scorpions, pseudoscorpions, millipedes, slaters and terrestrial snails.

4.1.6.2.1 Dry pitfall trapping

Dry pitfall traps and funnels were established at systematic sampling sites (**Section 4.1.3.4**) within the Survey Area. Invertebrate fauna from groups identified to have potential SRE species were collected from traps and preserved (**Section 4.1.6.3**) during the field work for the Survey. Each of the four systematic trap sites was open for seven nights, for a total trapping effort of 364 trap nights per site, equating to 1,456 trapping nights per phase, with a combined total of 2,912 trap nights conducted for the Survey (**Figure 4-3**).

4.1.6.2.2 Targeted searches

Targeted searches for invertebrates from SRE prospective groups was conducted in conjunction with the vertebrate targeted searches at systematic sampling sites (**Figure 4-3**). Targeted searches involved a combination of leaf litter sieving, burrow excavations and rock turning at each systematic site and within suitable habitat. Ultra-violet torches were used to search for scorpions during spotlighting and head torching surveys conducted at each systematic sampling site (**Section 4.1.3.7**). Microhabitats targeted during the searches included:

- the base of shrubs and trees;
- under bark and amongst leaf litter and debris; and
- under logs, rocks and in crevices.

In addition, burrows of scorpions and mygalomorph spiders found during targeted searches were excavated and any occupants collected and preserved.

4.1.6.3 SRE specimen processing, preservation, and identification

All invertebrate specimens collected during the Survey were preserved on site in accordance with the WAM Taxonomic Services Submission Guidelines – March 2018 (WAM 2018). These methods allow both morphological identification and DNA barcoding to be completed (where required). SRE specialists Dr Erich Volschenk and Simon Judd of Alacran Environmental Science were engaged to identify invertebrate specimens and assess SRE status.

4.1.7 Survey effort

A variety of survey methods were employed during the field work for the Survey to ensure that significant fauna with the likelihood of occurring could be adequately detected (**Table 4-4**). The detection methods of some species were excluded from **Table 4-4**, as they were assessed as no longer occurring in the bioregion (i.e. the Numbat, Bilby, Banded Hare-wallaby, and Chuditch) (**Section 5.3**). A total of 2,912 trap nights for vertebrate fauna were expended at systematic sites during the Survey (**Table 4-5**). This trapping included a total of 560 pitfall trap nights, 1,120 Elliott and 1,120 funnel trap nights also suitable for collecting SRE invertebrate fauna specimens. Systematic sampling also accounted for 1,120 avifauna census minutes, 640 systematic searching minutes, 320 spotlighting minutes, 112 motion-sensor camera sampling nights and 16 bat echolocation recording nights during the Survey (**Table 4-5**).

In addition to systematic sampling, motion-sensor cameras targeting Long-tailed Dunnarts were deployed at 32 locations for 144 trap nights during Phase 1, and at 32 locations for a total of 736 trap nights on stony rises and outcropping to the north of the Survey Area in Phase 2. Targeted bat echolocation units were deployed at one location for 3 nights during Phase 1 and at three locations for 5-6 nights during Phase 2. Targeted SM4 Mini acoustic bird recorders were deployed at four locations throughout the Survey Area in Phase 2 for seven nights, for a total of 28 acoustic recorder nights for the Surve

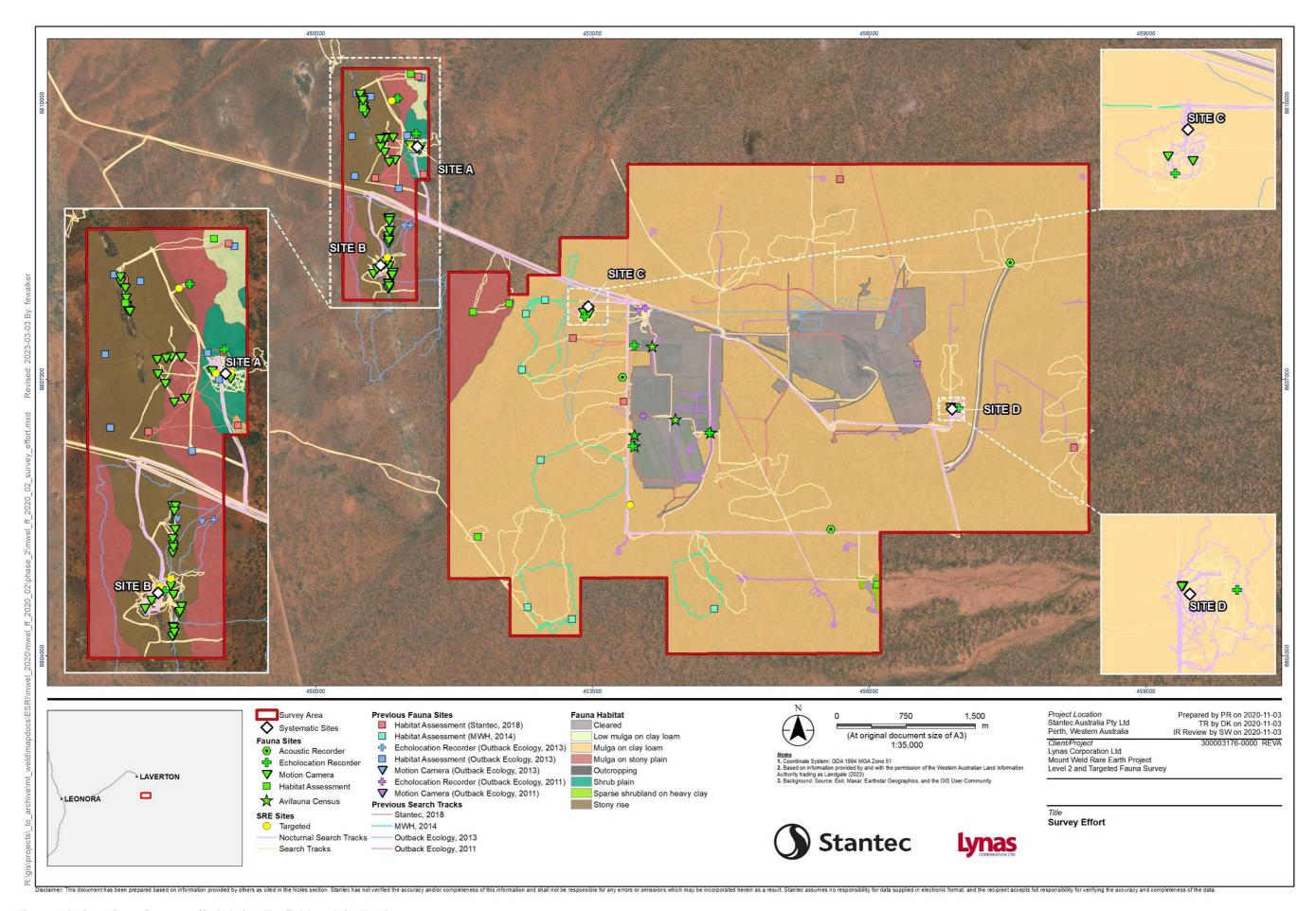


Figure 4-3: Overview of survey effort during the field work for the Survey

Table 4-4: Detection methods targeting significant fauna species during the field work for the Survey

Table 44. Defection memoral range in g	1	atus				ey metl			
Common name Species name	EPBC	ВС	Systematic trapping	Systematic searching	Avifauna census	Spotlighting	Targeted searching	Motion-sensor camera	Acoustic recorder
Mammals									
Long-tailed Dunnart (Sminthopsis longicaudata)		P4	Х			X		Х	
Brush-tailed Mulgara (Dasycercus blythi)		P4	Х	Х			Х	Х	
Birds									
Night Parrot (Pezoporus occidentalis)	En	CR				X			Х
Malleefowl (Leipoa ocellata)	Vυ	VU					Х	Х	
Princess Parrot (Polytelis alexandrae)	Vυ	P4			Χ		Х		
Fork-tailed Swift (Apus pacificus)	Mi	IA			Χ				
Eleven species of wetland/shorebirds and migratory species from the families: • Threskiornithidae;					V				
• Ardeidae;	Mi	IA, P4			Χ				
• Laridae;									
Charadriidae; andScolopacidae									
Yellow Wagtail (Motacilla flava)	Mi	IA			Х				
Grey Wagtail (Motacilla cinerea)	Mi	IA			Χ				
Peregrine Falcon (Falco peregrinus)		S			Χ				
Reptiles									
Great Desert Skink (Liopholis kintorei)	Vυ	VU	X	Х			Х	Х	

Table 4-5: Survey effort conducted at each systematic site during the field work for the Survey

				Traj	o nights				Active searches			
Phase Sites		Buckets	Pipes	Funnels	Small Elliott traps	Cages	Total	Avifauna census (mins.)	(including 20 min/pp targeted SRE search) (40 mins/pp)	Spotlighting (20 mins/pp)	Bat echolocation recorders (nights)	Motion camera nights (location)
	А	35	35	140	140	14	364	140	80	40	2	14 (2)
	В	35	35	140	140	14	364	140	80	40	2	14 (2)
Phase 1	С	35	35	140	140	14	364	140	80	40	2	14 (2)
	D	35	35	140	140	14	364	140	80	40	2	14 (2)
	Total	140	140	560	560	56	1,456	560	320	160	8	56
	Α	35	35	140	140	14	364	140	80	40	2	14 (2)
	В	35	35	140	140	14	364	140	80	40	2	14 (2)
Phase 2	С	35	35	140	140	14	364	140	80	40	2	14 (2)
	D	35	35	140	140	14	364	140	80	40	2	14 (2)
	Total	140	140	560	560	56	1,456	560	320	160	8	56
Survey total		280	280	1,120	1,120	112	2,912	1,120	640	320	16	112

4.1.8 Specimen identification and nomenclature

Fauna taxonomy is dynamic, due to the ongoing description and revision of new species, and the increased understanding of the relationships between taxa through genetic and morphological studies. The nomenclature and taxonomy of all vertebrate fauna in this report follows the Checklist of the Vertebrates of Western Australia (WAM 2020a).

Vertebrate fauna species were identified in the field, as required, using standard field guides or scientific publications for:

- Mammals (Menkhorst and Knight 2011, van Dyck et al. 2013, van Dyck and Strahan 2008);
- Birds (Menkhorst et al. 2017, Pizzey and Knight 2012);
- Reptiles (Wilson and Swan 2013); and
- Amphibians (Cogger 2014, Tyler and Doughty 2009).

4.2 Analysis

4.2.1 Echolocation data treatment

Echolocation recordings from the field work of the Survey were analysed by BatCall WA to identify species diversity, using COOL EDIT 2000 (now available as AUDITION from Adobe Systems Inc.). Once identified, calls were compared to a database of reference calls.

4.2.2 Species accumulation curves

Species accumulation curves can be used to estimate the sampling adequacy of systematic observation techniques for a survey (EPA 2016c, EPA and DEC 2010). When a curve approaches an asymptote, it suggests that sampling effort has been sufficient to adequately collect the majority of species comprising the faunal assemblage at the locations sampled (Thompson and Withers 2003). The value at which the curve asymptotes can also be used as an approximate measure of the total size of the species complement at that location (Thompson and Withers 2003).

Species accumulation curves for the Survey were calculated using avifauna census data for birds, and systematic trapping data for mammals and herpetofauna (reptiles and amphibians combined). Species accumulation curves derived included Sobs (Mao Tao), to reflect the number of species observed (based on a given total of species recorded), and richness estimators (Chao 1, Chao 2, Jackknife 1 and Bootstrap), to predict the total number of species that could potentially be recorded using these techniques. Bias-corrected formulas are used for Chao 1 and Chao 2 indicators.

While species accumulation curves were created using systematic trapping and avifauna census data, many species were also detected via alternate techniques. In addition, many species may not have been detected during the field work for various reasons such as:

- weather patterns species such as burrowing frogs may occur within the Survey area year-round but are not detected in the absence of specific climatic events that trigger emergence;
- variation in detectability some species are readily trapped, seen and/or heard, but other species are more cryptic and require concerted, highly-targeted surveys for detection; and
- species rarity species with restricted distributions or population sizes may not be detected without major, resource-intensive targeted surveys.

Results and Discussion

5.1 Fauna habitats

Seven fauna habitats were identified during the Survey on the basis of location, landform, substrate and vegetation type (**Table 5-1**; **Figure 5-1**; **Appendix D**). The habitats classified in the Survey Area were as follows:

- Mulga on clay loam;
- Mulga on stony plain;
- Low mulga on clay loam;
- Stony rise;
- Outcropping;

- Shrub plain; and
- Sparse shrubland on heavy clay.

Survey effort was focussed on habitats that contributed the most to the overall extent of the Survey Area and those that were most likely to be impacted by the proposed developments. The mulga on clay loam habitat made up the majority (81%) of the Survey Area, with the remaining six habitats each accounting for less than 5%. Habitat condition ranged from good to very good, affected by exploration tracks and feral grazing. Broad fauna habitats and their presence in the Survey Area are presented in greater detail in **Sections 5.1.1.1** to **5.1.1.7**. Each of the habitat types identified were defined in terms of distribution and significance according to the following criteria:

- **Distribution**: habitats widespread and common throughout the Survey Area were categorised as Widespread; otherwise they were categorised as being of Limited Extent. Six of the seven habitat categories within the Survey Area were considered to have a Limited Extent (**Table 5-1**). The remaining habitat was considered Widespread within the Survey Area.
- **Significance**: habitats capable of supporting significant fauna or distinct fauna assemblages were categorised as Significant on a local and regional scale; otherwise they were categorised as being of Limited Significance. Two of the seven habitat categories were considered Significant and may support listed fauna, particularly threatened species or distinct assemblages (**Table 5-1**). Habitats and their value to significant fauna are discussed in **Sections 5.1.1.1** to **5.1.1.7**, while **Section 5.3** details the likely occurrence of significant fauna species within the Survey Area.

Table 5-1: Attributes of broad fauna habitat types within the Survey Area

Table 5-1: Attributes of broad fauna habitat ty			T			
Habitat Extent & Significance	Extent (ha)	Proportion of Survey Area (%)	Systematic Site	Vegetation Description	Disturbance Types	Representative Photograph
Mulga on clay loam • Widespread • Limited Significance • Malleefowl	2,644.11	81.17	CD	Acacia aneura low open forest over Acacia ramulosa var. ramulosa tall shrubland over Eremophila?latrobei subsp. filiformis and Eremophila margarethae low open shrubland	Exploration tracks, feral grazing (cattle and rabbits)	
Mulga on stony plain Limited Extent Limited Significance	137.97	4.24		Acacia aneura low woodland over Acacia tetragonophylla open shrubland over Acacia caesaneura, Maireana sp. and Ptilotus obovatus low scattered shrubs	Exploration tracks in some areas	
Stony rise Limited Extent Significant Long-tailed Dunnart	108.10	3.31	В	Hakea preissii and Acacia sp. low open woodland over Senna sp. and Sida sp. shrubland over Maireana sp. and Ptilotus obovatus low open shrubland	Exploration tracks in some areas	

Habitat Extent & Significance	Extent (ha)	Proportion of Survey Area (%)	Systematic Site	Vegetation Description	Disturbance Types	Representative Photograph
Shrub plain Limited Extent Limited Significance	16.98	0.54	A	Acacia aneura low open woodland over Acacia tetragonophylla and Santalum spicatum tall open shrubland over Eremophila youngii subsp. youngii scattered shrubs over Ptilotus obovatus scattered low shrubs	Exploration tracks in some areas, feral grazing	
Low mulga on clay loam • Limited Extent • Limited Significance	9.76	0.30	-	Acacia aneura, Acacia caesaneura and Acacia aptaneura low open forest over Acacia tetragonophylla and Santalum spicatum tall open shrubland over Ptilotus obovatus scattered low shrubs	Cattle grazing	
Outcropping Limited Extent Significant Long-tailed Dunnart	6.61	0.20	-	Acacia aneura, Acacia pteraneura, Acacia ayersiana low woodland over Acacia minyura tall, scattered shrubs over Eremophila sp., Maireana sp. and Ptilotus obovatus low open shrubland	-	

Habitat Extent & Significance	Extent (ha)	Proportion of Survey Area (%)	Systematic Site	Vegetation Description	Disturbance Types	Representative Photograph
Sparse shrubland on heavy clay Limited Extent Limited Significance	5.24	0.16	-	Acacia aneura, Acacia pteraneura and Acacia aptaneura low open woodland over Acacia tetragonophylla tall open shrubland over Rhodanthe charsleyae and Sclerolaena spp. open herbland	Feral grazing	
Cleared	326.05	10.07	N/A	N/A	Mining activity	N/A
Total	3,254.81	99.99	N/A	N/A	N/A	N/A

 $[\]ensuremath{^*}$ Some totals may not equal the sum of their parts due to rounding.

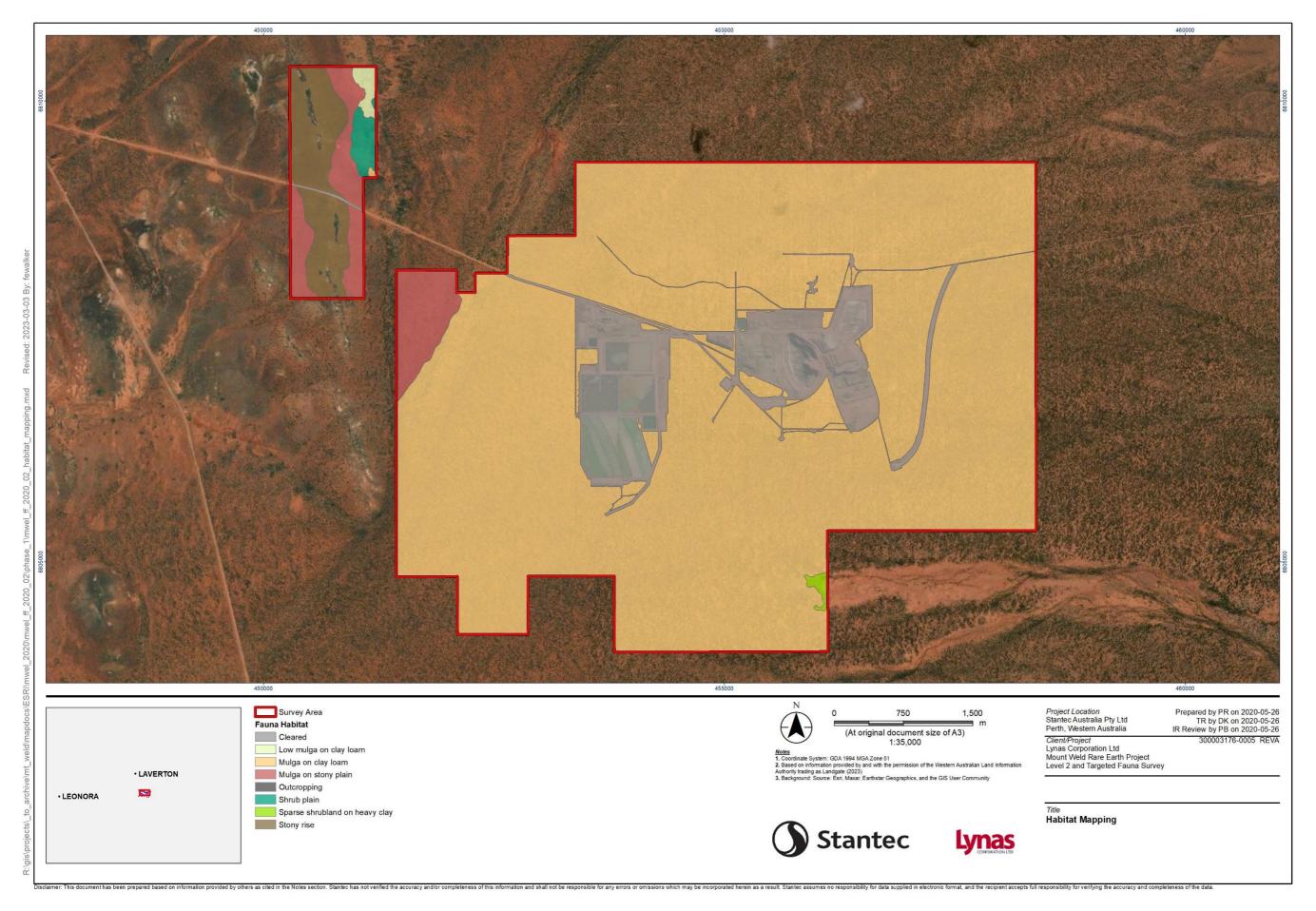


Figure 5-1: Broad fauna habitat types within the Survey Area

5.1.1.1 Mulga on clay loam

The mulga on clay loam habitat was the most widespread habitat in the Survey Area (**Table 5-1**; **Figure 5-1**). This habitat occurred in flat/level areas and was associated with sheet flow of water in a south west direction across the Survey Area. The habitat generally lacked stony substrate; however, pockets of sparse quartz were present in some areas. Vegetation typically comprised open to moderate mulga over sparse Acacia spp. and *Eremophila* spp. shrubs on clay loam soils. The woody debris and leaf litter cover was higher in dense areas and this may provide shelter for mammals and reptiles. However, where this is absent there was minimal alternative lower cover and low significance for fauna. This habitat had no significant fauna species recorded during the Survey. Generally, this habitat was relatively open, however areas of dense cover of mulga and shrubs may provide more suitable habitat for roosting and foraging avifauna and may provide some suitable marginal habitat for Malleefowl.

5.1.1.2 Mulga on stony plain

The mulga on stony plain habitat was dominated by mulga, Acacia tetragonophylla over Ptilotus obovatus low scattered shrubs on clay loam soils. The habitat was characterised by a high cover of coarse fragment evenly spread over a level landscape. Many small patches of leaf litter were present, similarly woody debris was common throughout the habitat. These areas are unlikely to serve as significant habitat for fauna owing to the relatively open vegetation and lack of unique habitat features such as crevices and hollows. Taller trees may provide nesting and/or roosting for bird species, and the small networks of dense mulga may provide shelter for fauna. No significant fauna was recorded from within this habitat during the Survey, nor are they expected to occur.

5.1.1.3 Stony rise

Stony rise habitat comprised low (1-20°) to moderately (21-45°) inclined rises, predominantly in the west of the Survey Area. Upper and mid-story typically comprised mulga over Acacia spp. shrubs over a stony substrate with little bare soil present. The substrate comprised coarse fragments ranging from 1 to 20 cm, dominated by ironstone and to a lesser extent quartz.

The Long-tailed Dunnart was recorded via trapping and a motion-sensor camera within this habitat during the Survey (**Table 5-4**). This habitat may provide foraging resources for the Long-tailed Dunnart and may facilitate connectivity between individuals utilising the adjoining outcropping habitat.

5.1.1.4 Shrub Plain

The shrub plain habitat was characterised by very open areas largely lacking an upper storey. Vegetation was dominated by *Hakea preissii* and *Acacia* sp. over *Senna* spp. and *Sida* spp. with *Maireana* spp. low open shrubs. The habitat contained sparse or no woody debris, leaf litter or peeling bark.

The sparse lower storey provided minimal cover for small mammals and reptiles, and the habitat did not contain a substantial amount of alternative shelters (woody debris, peeling bark etc.). No fauna of significance was recorded within this habitat during the Survey, nor are they expected to occur.

5.1.1.5 Low mulga on clay loam

This habitat is characterised by low mulga open to moderate woodland over an open Acacia shrubland with scattered Eremophila youngii subsp. youngii and Ptilotus obovatus low shrubs. The substrate has quartz stones evenly spread throughout. These areas supported a denser upper storey cover relative to most habitats within the Survey Area. The relatively dense areas of mulga would provide nesting and roosting habitat for species of birds. Along with the debris and peeling bark, these would provide shelter for small reptiles and mammals.

No fauna of significance was recorded within this habitat during the Survey, nor are any expected to occur.

5.1.1.6 Outcropping

Outcropping habitat comprised moderately inclined upper hill slopes and hillcrests above the stony rise habitat. This habitat was characterised by exposed bedrock and large rocky substrate covering most soil. This habitat contained a relatively complex substrate with rocky crevices and alcoves that provide shelter for ground-dwelling fauna such as reptiles and mammals, particularly the long-tailed dunnart. A chain of outcropping habitat surrounded by stony rise habitat, was present in the west of the Survey Area. This habitat was dominated by mulga over Acacia minyura tall, scattered shrubs over Eremophila sp., Maireana sp. and Ptilotus obovatus low open shrubland.

The Long-tailed Dunnart has been recorded within the outcropping habitat in previous surveys of the Survey Area (Lynas 2019). The value of this habitat to the Long-tailed Dunnart lies in the abundance of

shelter provided by the outcropping rocks and crevices. It may also provide suitable foraging habitat for the species.

5.1.1.7 Sparse shrubland on heavy clay

The sparse shrubland on heavy clay habitat is characterised by very open vegetation over heavy clay substrate. The habitat was dominated by mulga over Acacia tetragonophylla and sparse Rhodanthe charsleyae and Sclerolaena spp. shrubs. This habitat is influenced by its low elevation and may become inundated after periods of heavy rainfall. There was only one relatively small area of this habitat in the southeast of the Survey Area. The lack of vegetation and leaf litter provides minimal shelter for small mammals and reptiles. No fauna of significance was recorded within this habitat during the Survey, however it has the potential to support waterbirds when inundated.

5.2 Fauna Assemblages

5.2.1.1 Overview

A total of 95 species of vertebrate fauna were recorded during the Survey, of which 90 were native. This represents 34.8% of the total number of species identified from the desktop assessment (n = 273) as potentially occurring in the Survey Area (**Section 3**). The number of species recorded during the Survey was above most numbers recorded during previous surveys of the Survey Area, however, it should be noted that only one of these surveys (Halpern Glick Maunsell 1999) was of equivalent scope and size to this Level 2 survey. The number of species recorded during this Survey is comparable with the number recorded by Halpern Glick Maunsell (1999).

Eleven species recorded during the Survey were not identified during the desktop assessment; Ooldea Dunnart (Sminthopsis ooldea), Western Grey Kangaroo (Macropus fuliginosus), White-striped Free-tailed Bat (Austronomus australis), South-western Free-tailed Bat (Ozimops kitcheneri), Inland Free-tailed Bat (Ozimops petersi), Mulga Dragon (Diporiphora amphiboluroides), Dark-spined Blind Snake (Anilios bicolor), Banded Knob-tailed Gecko (Nephrurus wheeleri), Perentie (Varanus giganteus), Whiskered Tern (Sterna hybrida) and the Western Whistler (Pachycephala occidentalis) (Appendix C). Two of these species are suspected range extensions (see Section 5.2.1.8). The Survey Area is situated on the extremities of known ranges for the Western Grey Kangaroo (DBCA 2020b, van Dyck et al. 2013).

Species richness at a given location generally depends on the diversity of microhabitats and the size, number and/or extent of these microhabitats. The mulga on clay loam habitat had the highest species richness (n = 26), followed by the shrub plain habitat (n = 18), followed closely by the stony rise habitat which had the lowest species richness (n = 16) (Table 5-2). The high richness and abundance at the mulga on clay loam sites is likely related to twice the sample effort (Site C and Site D), as well as the influence of the denser vegetation providing additional microhabitats. The lower species richness and abundance of the stony rise and shrub plain habitats may be attributed to the open, low vegetation and limited habitat diversity (particularly in the shrub plain habitat). However, some of the species captured at these sites were unique to these sites and only captured in these habitat types.

Table 5-2: Fauna species richness and abundance from systematic sampling of habitats during the Survey

Habitat Sites	Sito:	Native mammals		Birds		Reptiles		Amphibians		Total	
	31163	R	А	R	Α	R	Α	R	Α	R	Α
Mulga on clay loam	C, D	3	13	14	109	9	29	0	0	26	151
Stony rise	В	3	13	6	19	7	14	0	0	16	46
Shrub plain	А	3	9	10	22	5	8	0	0	18	39
Total		5	35	22	150	14	51	0	0	41	236

Note: records comprise captures from systematic sites only and includes only systematic trapping and systematic avifauna census; R = species richness; A = species abundance.

5.2.1.2 Native mammals

The desktop assessment identified 26 species of native mammal that potentially occur in the Survey Area (**Appendix C**). Of these, 18 species (69.2%) were recorded during the Survey. An additional five species of native mammal were recorded during the Survey that had not been identified by the desktop assessment (**Section 5.2.1.1**). In total 18 species of native mammal were recorded during the Survey, most of which were recorded via targeted survey methods (n = 17), with only the Ooldea Dunnart being recorded exclusively by trapping. The number of native mammals recorded during this Survey was the highest of any of the previous studies conducted within the Survey Area (**Table 3-2**).

All three habitat types showed similar diversity for native mammal captures, based on systematic trapping, with all three habitat types recording three species (n = 3) (Table 5-2). However, the mulga on clay loam and stony rise habitats had the highest abundance, which may be attributed to twice the sample effort occurring within the mulga on clay loam habitat (Site C and Site D), a higher upper stratum vegetation cover within the mulga on clay loam habitat, and the presence of rocky outcropping within the stony rise habitat (Section 5.1). The most commonly recorded species at systematic sites was the Stripe-faced Dunnart (Sminthopsis macroura), which was recorded on 28 occasions, mostly within the mulga on clay loam habitat at Sites C and D (Appendix E).

The mulga on clay loam habitat was the most diverse habitat for volant mammals (bats), supporting seven species (**Appendix E**). The shrub plain and stony rise habitats supported six and three species of bat, respectively (**Appendix E**). The most commonly recorded volant mammal species were the White-striped Free-tail Bat (Austronomous australis), Gould's Wattled Bat (Chalinolobus gouldii), and the Lesser Longered Bat (Nyctophilus geoffroyi), found at all systematic sites across all habitat types (**Appendix E**).

Of the 23 species of native mammals recorded during the Survey, only one was listed as a significant fauna species; the Long-tailed Dunnart (Sminthopsis longicaudata) (P4) (Section 5.3).



Plate 5-1: A Woolley's Pseudantechinus (*Pseudantechinus woolleyae*), Kultarr (*Antechinomys laniger*), and Stripe-faced Dunnart (*Sminthopsis macroura*) captured during the Survey. Photos: Melissa Jensen.

5.2.1.3 Birds

The desktop assessment identified 152 species of birds that potentially occur within the Survey Area (**Appendix C**). Of these, 52 species (34.2%) were recorded during this Survey, including 22 species from 150 records at systematic sites (**Appendix E**). This number is above the number recorded from most previous surveys of the Survey Area (**Table 3-2**), with the exception of the Halpern Glick Maunsell (1999) survey, where 67 species of birds were recorded.

The mulga on clay loam habitat contained the highest species richness (n = 1.4) and concurrently the highest relative abundance with 109 individuals recorded (**Table 5-2**). This is likely due to this habitat having denser vegetation that may support roosting, nesting and foraging for more avifauna species than the other habitats within the Survey Area. The most common bird species at systematic sites was the Southern Whiteface (Aphelocephala leucopsis), with 56 records, followed by the Crested Bellbird (*Oreoica gutturalis*), with 21 records. These species are relatively common in the landscape and typically occur in a wide range of habitats (Menkhorst et al. 2017). Two species of bird, the Western Whistler (*Pachycephala occidentalis*) and the Whiskered Tern (*Sterna hybrida*) was recorded during the Survey, however had not been identified in the desktop assessment. The Western Whistler has only been described as a distinct

species since 2014 (Joseph et al. 2014) and this may explain why it was not identified by the desktop assessment.

Four species of reptile were recorded during the Survey that were not identified in the desktop assessment, including the Mulga Dragon (Diporiphora amphiboluroides), Dark-spined Blind Snake (Anilios bicolor), and the Perentie (Varanus giganteus). The Survey Area is within the range of these species, but these records represent new records for the species in the Laverton area

Five targeted avifauna census' were conducted at artificial water sources within the Survey Area. Of the 52 bird species recorded during the Survey, 14 were found exclusively at the artificial water sources. Of these, the Banded Stilt (*Cladorhynchus leucocephalus*) and the Pink-eared Duck (*Malacorhychus membranaceus*) were the most abundant with approximately 100 and 80 individuals recorded respectively.

Of the 52 bird species recorded during the Survey, two are listed as significant: the Wood Sandpiper (*Tringa glareola*) (Mi; IA) and the Common Sandpiper (*Actitis hypoleucos*) (Mi; IA) (**Section 5.3**).

5.2.1.4 Reptiles

The desktop assessment identified 78 species of reptiles that potentially occur in the Survey Area (**Appendix C**). In total 20 (25.6%) of these species were recorded during the Survey, including 14 species from 51 records at systematic sites (**Appendix E**). The number of reptiles recorded during this Survey (n = 20) was generally higher than the surveys previously conducted within the Survey Area, with the exclusion of the Halpern Glick Maunsell (1999) survey, where 22 reptiles species were recorded (n = 22) (**Table 3-2**).

The highest species richness and abundance during the Survey was recorded within the mulga on clay loam habitat, with nine species from 29 records observed at systematic sites (**Table 5-2**; **Appendix E**). This habitat may provide a range of microhabitats for reptiles, including leaf litter, woody debris and peeling bark in which to shelter (**Section 5.1**). This habitat also provides more vegetation cover and the clay loam substrate exhibits moderate to high burrowing suitability.

The most common reptile species recorded during the systematic trapping were the Common Desert Ctenotus (Ctenotus leonhardii; 11 records) and the Barred Wedge-snouted Ctenotus (Ctenotus schomburgkii; 11 records) (Appendix E). The Yellow-spotted Monitor (Varanus panoptes) was regularly recorded via motion-sensor camera and systematic searches at Sites B, C and D (Appendix E). Four species of reptile were recorded during the Survey that were not identified in the desktop assessment, including the Mulga Dragon (Diporiphora amphiboluroides), Dark-spined Blind Snake (Anilios bicolor), and the Perentie (Varanus giganteus). The Survey Area is within the range of these species, but these records represent new records for the species in the Laverton area. They were recorded within the mulga on clay loam, stony rise and mulga on stony plain habitats respectively within the Survey Area (DBCA 2020b, Wilson and Swan 2017). The fourth species that was not identified during the desktop assessment was the Banded Knob-tailed Gecko (Nephrurus wheeleri), captured within the shrub plain habitat at Site A. This represents a suspected range extension for this species (Section 5.2.1.8).

Of the 20 reptile species recorded during the Survey, none were listed as significant fauna (**Section 5.3**). With the exception of the Banded Knob-tailed Gecko (*Nephrurus wheeleri*), all species recorded during the Survey are well known in the bioregion and are widespread (DBCA 2020b, Wilson and Swan 2017).



Plate 5-2: A Goldfields Pebble-mimic Dragon (*Tympanocryptis pseudopsephos*), Dark-spined Blind Snake (*Anilios bicolor*), and Southern Pygmy Spiny-tailed Skink (*Egernia depressa*) captured during the Survey. Photos: Melissa Jensen.

5.2.1.5 Amphibians

The desktop assessment identified five species of amphibians that potentially occur in the Survey Area (Appendix C). However, no amphibians were recorded during the Survey (Table 5-2). Amphibians may breed and persist at the artificial water sources within the Survey Area, however this habitat was not systematically sampled due to previous clearing. However, there was one small pocket of sparse shrubland on heavy clay (Section 5.1), which may support amphibian species, particularly after periods of heavy rainfall (Tyler and Knight 2011, WA Museum 2019). No significant amphibian species are known to occur in the Murchison bioregion.

5.2.1.6 Introduced fauna

The desktop assessment identified ten species of introduced mammal that potentially occur in the Survey Area (**Appendix C**). Five (50%) of these species were recorded during the Survey, including European Cattle (Bos taurus), the Red Fox (*Vulpes vulpes*), Feral Cat (*Felis catus*), Horse (*Equus caballus*), and the Rabbit (*Oryctolagus cuniculus*). The European Cattle and Horse were observed directly within the shrub plain, stony rise and/or mulga on clay loam habitats, with tracks and scats recorded throughout the Survey Area. The Rabbit was recorded via motion-sensor camera on three occasions at systematic Site B and twice in the adjacent outcropping habitat. Rabbit scats were recorded in the stony rise, outcropping and mulga on clay loam habitats. Fox and Feral Cat scat were observed opportunistically in outcropping habitat and mulga on sandy loam habitat, respectively.

Additionally, two species of introduced birds were identified during the desktop assessment; the Domestic Pigeon (*Columba livia*) and the Red Jungle Fowl (*Gallus gallus*) that have the potential to occur in the Survey Area (**Appendix C**). However, neither of these species were recorded during the Survey.

5.2.1.7 Additional fauna

Three additional species, not recorded within the Survey Area during the Survey, were identified on the regional cameras deployed to the north of the Survey Area to target Long-tailed Dunnarts in the wider region. These species included, the Dingo (Canis familiaris dingo), the Dwarf Bearded Dragon (Pogona minor), and the Goldfields Crevice-skink (Egernia formosa).

5.2.1.8 Range extensions

Two suspected range extensions were recorded during the Survey. A Banded Knob-tailed Gecko (Nephrurus wheeleri) was recorded on two occasions at Site A (shrub plain habitat). This record represents a range extension of approximately 104 km (minimum distance to nearest record on Atlas of Living Australia (ALA 2020)). However, the Naturemap (DBCA 2020c) database shows the next closest record as ~327 km northwest of Site A.

A Western Whistler (*Pachycephala occidentalis*) was also recorded at Site A. This record represents a range extension of approximately 300 km to the northeast of its next closest record on the Atlas of Living Australia (ALA 2020).



Plate 5-3: Banded Knob-tailed Gecko (Nephrurus wheeleri) caught at Site A. Photos: Melissa Jensen.

5.2.2 Sampling adequacy

Species accumulation curves can be used to estimate the sampling adequacy of systematic observation techniques for a survey (EPA 2016c). When a curve approaches an asymptote, it suggests that sampling effort has been sufficient to adequately collect the majority of species comprising the faunal assemblage at the locations sampled ((Thompson and Withers 2003). The value at which the curve asymptotes can also be used as an approximate measure of the total size of the species complement at that location (Thompson et al. 2003).

The species richness estimators (particularly Chao 1 and Chao 2) and Sobs accumulation curves for the Survey reached asymptote for mammals, indicating that adequate sampling was conducted to record the majority of mammal species in the area (**Figure 5-2**). Richness predictors indicated that between 83 to 100% of mammal species were trapped during the Survey (**Table 5-3**). Seven additional ground-dwelling mammal species (three native, four introduced) were also recorded within the Survey Area during the Survey, detected by alternative surveying techniques such as systematic searching, spotlighting and motion-sensor camera deployment, and therefore were not included in the Sobs curve. These comprised species not typically recorded via techniques used for systematic trapping (i.e. large macropods or ungulates).

The avifauna species richness estimators and Sobs accumulation curves steadily increased but did not reach asymptote, indicating that additional species would be recorded with further sampling (**Figure 5-3**). Richness predictors indicate that between 70 to 96% of avifauna species were recorded during the Survey, and that between four and nine additional species may be recorded with increased survey effort (**Table 5-3**).

The herpetofauna species richness estimators and Sobs accumulation curves reached an asymptote (particularly Chao 1 and Chao 2) (**Figure 5-4**). Richness predictors indicated that between 78 to 92% of herpetofauna species were recorded during the Survey, and that between one and three additional species may be recorded with further survey effort (**Table 5-3**). Another six species were recorded at systematic sites during spotlighting, systematic searching and opportunistic observations, which were not captured in the Sobs curve.

The season was considered appropriate for the capture of all fauna groups within the Survey Area; warm enough for reptile activity but not too hot to deter avifauna activity during Phase 1. It was noted in the field that many species were in exceptionally good body condition during the Phase 2 field survey. Whilst some curves failed to reach asymptote it should be reiterated that the Sobs curves did not include additional species recorded via targeted or opportunistic methods.

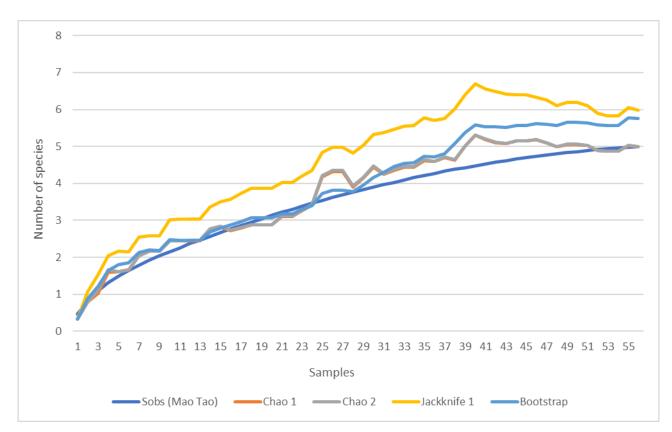


Figure 5-2: Species accumulation curves for captured mammals at systematic sites during the Survey

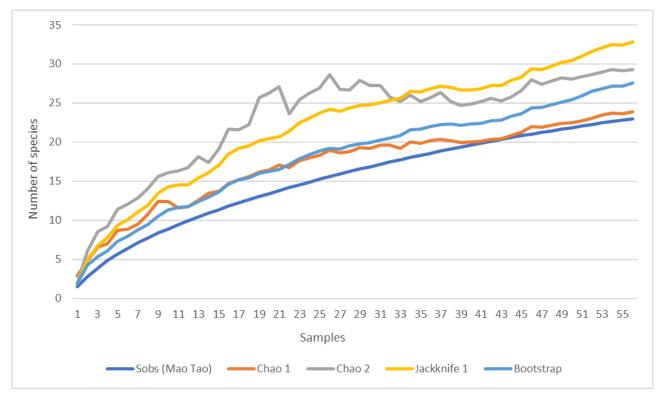


Figure 5-3: Species accumulation curves for avifauna at systematic sites during the Survey

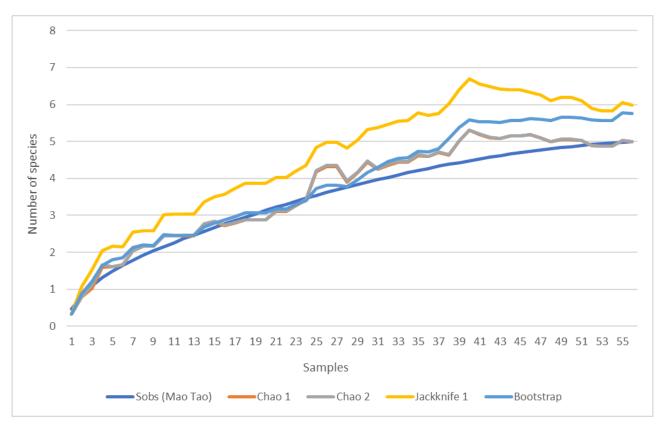


Figure 5-4: Species accumulation curves for captured herpetofauna at systematic sites during the Survey

Table 5-3: Observed and predicted species richness at systematic trapping sites during the Survey

Faunal Group	Observed vs. Es	timated	Species Richness (n)	Proportion Recorded (%)
	Obs.	Sobs	5	-
		Chao 1	5	100
Mammals	Estimated	Chao 2	5	100
	Estimated	Jackknife 1	5.98	83.6
		Bootstrap	5.7	87.7
	Obs.	Sobs	23	-
		Chao 1	23.9	96.2
Birds	 Estimated	Chao 2	29.3	78.5
	Laminatea	Jackknife 1	32.8	70.1
		Bootstrap	27.5	83.6
	Obs.	Sobs	14	-
		Chao 1	15.2	92.1
Herpetofauna	 Estimated	Chao 2	15.2	92.1
	Laminated	Jackknife 1	17.9	78.2
		Bootstrap	16.1	87.0

5.3 Fauna of Significance

The desktop assessment identified a total of 25 terrestrial vertebrate fauna species of significance with the potential to occur within the Survey Area, comprising six mammal, 18 bird and one reptile species (**Section 3.2.2**). Three of these species were recorded within the Survey Area during the Survey (**Section 5.3.1 to 5.3.3**) comprising:

Long-tailed Dunnart (Sminthopsis longicaudata) (P4);

- Wood Sandpiper (Tringa glareola) (Mi; IA); and
- Common Sandpiper (Actitis hypoleucos) (Mi; IA).

The likelihood of significant fauna species occurring within the Survey Area was assessed against the criteria provided in **Section 3.1.3** and is detailed in **Table 5-4**. Of the remaining species, 11 are considered to possibly occur and seven are considered unlikely (**Table 5-4**). Of the 25 significant terrestrial vertebrate species identified in the desktop assessment:

- twenty-three are listed as Threatened under the EPBC Act and/or BC Act;
- three are recognised by DBCA as Priority fauna;
- one species is recognised by the state (BC Act), and requires special protections; and
- thirteen species are listed as Migratory under the EPBC Act and/or International Agreements under the BC Act.

Some of the significant species listed as Threatened, Migratory and/or Priority fauna may be included in multiple groups. In addition, four species comprised records outside their current range and known distribution or are considered extinct (Threatened Species Scientific Committee 2018, van Dyck et al. 2013, van Dyck and Strahan 2008). The following are considered not relevant within the context of this Survey, based on the criteria outlined in **Section 3.1.3**:

- Numbat (Myrmecobius fasciatus, En;EN): restricted to two natural populations at Dryandra and Perup, and translocated populations outside the Survey Area (Threatened Species Scientific Committee 2018);
- Chuditch (Dasyurus geoffroii, Vu;VU): outside current range (DEC 2012, van Dyck et al. 2013);
- Bilby (Macrotis lagotis, Vu;VU): outside current range and no recent records (DBCA 2020b, van Dyck et al. 2013); and
- Banded Hare-wallaby (Lagostrophus fasciatus fasciatus, VU under BC Act): extinct on mainland, restricted to Bernier and Dorre Islands, Shark Bay (van Dyck and Strahan 2008).

5.3.1 Long-tailed Dunnart (Sminthopsis longicaudata) (P4)

There is limited information on the spatial ecology of the Long-tailed Dunnart, with only three records before 1975, where habitat and locality were not disclosed (van Dyck and Strahan 2008), making the discussion of habitat utilisation, dispersal and the activity of the Long-tailed Dunnart limited. However, limited available literature suggests the species is widely distributed in low abundance across much of the arid and semi-arid areas of Western Australia (van Dyck and Strahan 2008). This species was recorded at two locations in the L38/244 tenement area via trapping and motion-sensor camera within the stony rise habitat during both phases of the Survey (**Figure 5-6**; Plate 5-4). The population within the Survey Area could not be assessed as only two individuals were captured. The occurrence of the Long-tailed Dunnart is consistent with the known habitat preferences, which are rocky landscapes that support low open mulga over a spinifex understorey, occasionally with perennial grasses and cassias (Northern Territory Government 2006, van Dyck and Strahan 2008, WAM 2020b).

The Long-tailed Dunnart has also been recently recorded eight times within the Survey Area (Lynas 2019, 2020), and on 12 occasions in the vicinity of the Survey Area. Of the 12 records, two were located 7.2 km northwest and a further two were located approximately 12 km to the northwest (Terrestrial Ecosystems 2011). Three records from Terrestrial Ecosystems (2011) were within flat, open mulga woodland lacking rocky/stony substrate, with limited understorey. This suggests that either this species is not strictly restricted to rocky or stony habitats, or that the species was possibly misidentified, potentially confused with the similar looking Kultarr (Antechinomys laniger) which has also been captured in the area and is known to inhabit flat, open mulga woodlands. The remaining eight records occurred within 700 m of the Survey Area (Lynas 2020).

Thirty-two cameras were deployed on stony rises and outcropping to the north of the Survey Area to determine the presence of Long-tailed Dunnarts in the wider region. Long-tailed Dunnarts were recorded on 25 of these cameras (**Figure 5-6**) on a total of 212 occasions. The majority of Long-tailed Dunnart records were associated with stony rise and outcropping habitat and in conjunction with the records from motion-sensor cameras to the north of the Survey Area, support the argument that the species persists on other stony rise areas in the region.



Plate 5-4: Long-tailed Dunnarts captured at Site B during the Survey; (A) individual captured in pitfall trap during Phase 1, (B) individual prior to release, (C) individual captured during Phase 2 of the survey. Photos: Stephanie Williams and Melissa Jensen.

5.3.2 Wood Sandpiper (Tringa glareola) (Mi, IA)

The Wood Sandpiper is a migrant from Siberia travelling to Australia to use freshwater wetlands (Menkhorst et al. 2017). The species is more common in the north of Australia, however, can be found in the south along the coast and occasionally at inland freshwater wetlands (DotE 2020c, Menkhorst et al. 2017). The Wood Sandpiper utilises freshwater wetlands to forage and roost, before returning to the northern hemisphere for the breeding season (DotE 2020c).

A single individual was recorded during a targeted avifauna census at the Project's evaporation ponds within the cleared areas (**Figure 5-5**; Plate 5-5). The occurrence of the Wood Sandpiper is consistent with known habitat (DotE 2020c), which is at the edges of artificial water sources. This species has been recorded 11.9 km west of the Survey Area in 2008 (DBCA 2020b). That record was in proximity to an artificial water source. The artificial water source within the Survey Area lacks tall fringing vegetation and it is likely that this habitat is a secondary habitat within the region (DotE 2020c).



Plate 5-5: Wood Sandpiper photographed at an evaporation pond. Photo: Melissa Jensen.

5.3.3 Common Sandpiper (Actitis hypoleucos) (Mi, IA)

The Common Sandpiper migrates to Australia from Europe and Asia during the non-breeding season, arriving in late July-August and departing in March (DotE 2020f, Menkhorst et al. 2017). Found along all coastlines of Australia and in many areas inland, the Common Sandpiper is widespread in small numbers. The population, when in Australia, is concentrated in northern and western Australia (DotE 2020f). The Common Sandpiper uses mangrove-lined creeks, mud with outcropping of rocks, steep-sided sewage ponds and dams, and are usually solitary or in very small groups (Menkhorst et al. 2017).

A single individual was recorded during a targeted avifauna census at the Project's return water pond within the cleared areas (**Figure 5-5**). The occurrence of the Common Sandpiper is consistent with known habitat (Menkhorst *et al.* 2017), which includes foraging at steep-sided sewage ponds and dams. This species has previously been recorded on one occasion, 40 km to the north of the Survey Area, in 1979 (DBCA 2020b).

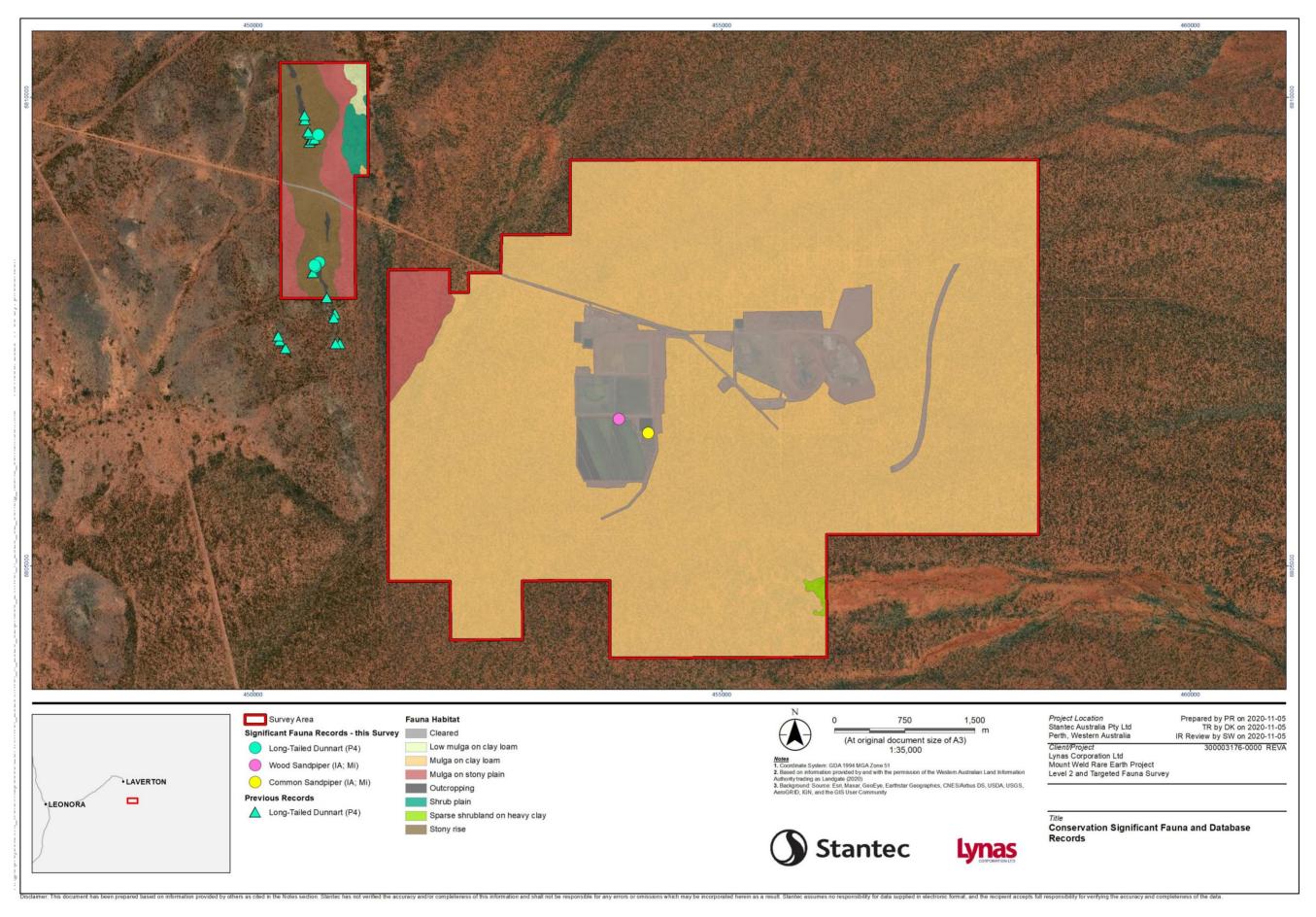


Figure 5-5: Significant fauna records within the Survey Area (from the desktop assessment and during this Survey)

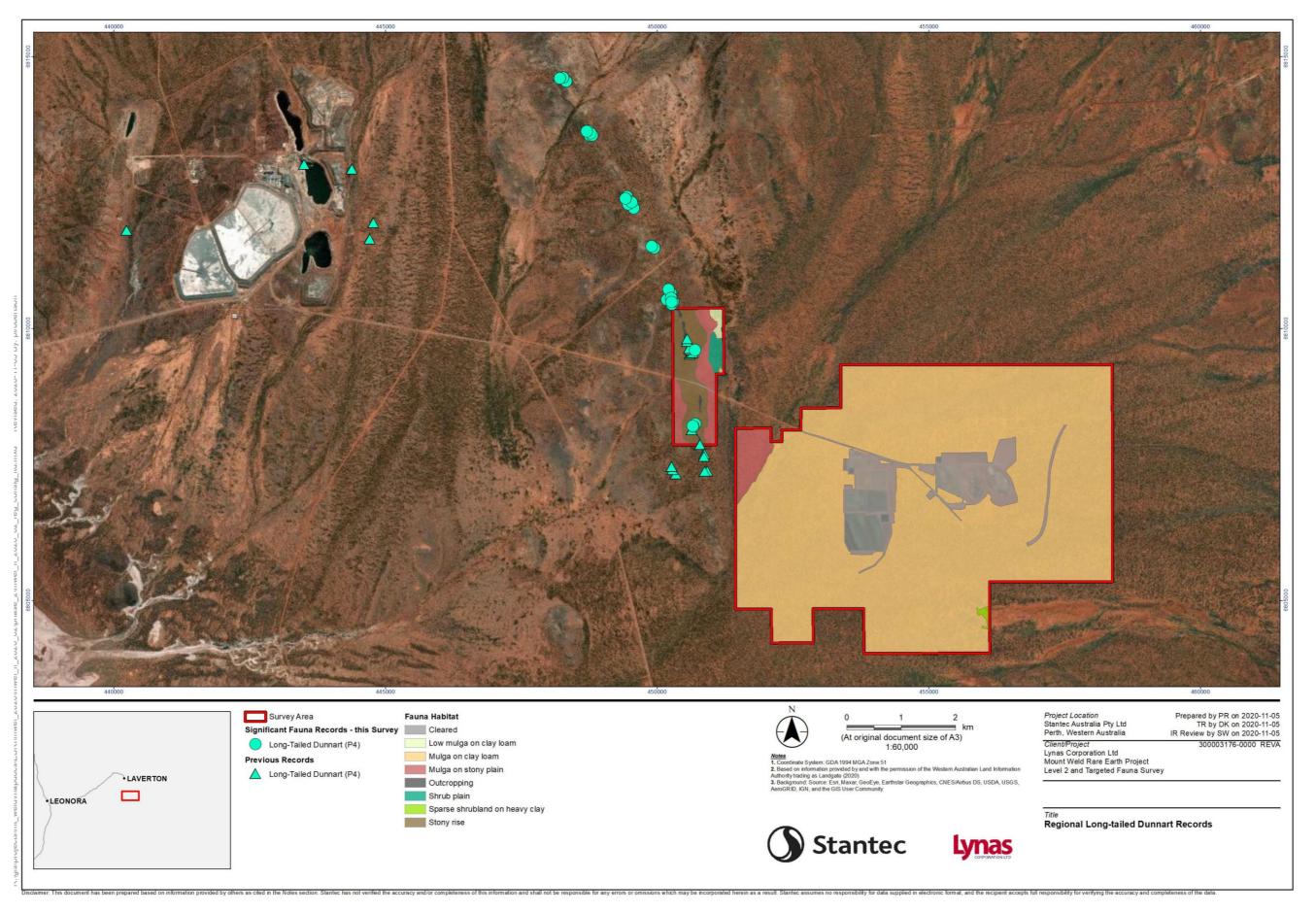


Figure 5-6: Long-tailed Dunnart occurrence recorded by motion-sensor camera in the wider region

Table 5-4: Post-survey likelihood of occurrence of significant fauna within the Survey Area

,	Conservatio		f fauna within the Survey Area		
Common name (scientific name)	EPBC Act	WA	Key threats and reason for listing	Habitat	Likelihood of occurrence and reason for likelihood
Mammals					
Long-tailed Dunnart (Sminthopsis longicaudata)	-	P4	Relatively little is known about the species distribution and biology (van Dyck and Strahan 2008), however potential threats may include inappropriate fire regimes, habitat alteration by non-native herbivores and predations by Red Foxes and Feral Cats.	Rocky, hilly areas, occasionally open areas with a stony, rocky mantle on low open mulga over spinifex and occasionally perennial grasses and cassias (Northern Territory Government 2006, van Dyck and Strahan 2008, WAM 2020b).	Confirmed See Section 4.6.1
Brush-tailed Mulgara (Dasycercus blythi)	-	P4	Major threats may include inappropriate fire regimes, habitat alteration by non-native herbivores and predations by Red Foxes and Feral Cats (Woinarski et al. 2014).	Inhabit spinifex grass plains within the arid zone (van Dyck and Strahan 2008).	Unlikely While the species has been recorded recently nearby, the Survey Area does not contain suitable spinifex sandplain habitat (van Dyck and Strahan 2008). As such, the species is considered unlikely to occur within the Survey Area.
Birds					
Night Parrot (Pezoporus occidentalis)	En	CR	Little is known about potential threats to this species, but suspected threats included reduction of the extent or quality of habitat, increase in numbers of feral predators, increase (or decrease) in grazing pressure, or change in fire regime (DotEE 2016)	Known to inhabit treeless or sparsely wooded long unburnt spinifex hummock plains often interspersed with chenopods (Pyke and Ehrlich 2014).	Unlikely The species has not been recorded recently nearby, and the Survey Area does not contain suitable habitat (Pyke and Ehrlich 2014). The species was only detected as the species or habitat "may occur within the area" (DoAWE 2020b). Four acoustic recording units were deployed within the Survey Area for a total of 28 sampling nights. Three units were deployed in mulga on clay loam habitat and one unit was deployed in the mulga on stony plain habitat. No records of the species were obtained by any of the four units.
Malleefowl (Leipoa ocellata)	Vu	VU	The major threats to the species include, habitat clearing, fragmentation and isolation, habitat alteration by non-native herbivores, predation by Red foxes and to a lesser extent, fire and climate change (Benshemesh 2007).	Knowledge of habitat preferences is limited, however the species tends to inhabit arid or semi- arid shrublands or woodlands dominated by long unburnt mallee, and may also occur in areas dominated by Acacia sp., wandoo, marri or mallet (Benshemesh 2007). Substrates tend to be sandy loams and loamy sands with an abundance of leaf litter for mound construction and may contain gravel or lateritic fragments (Benshemesh 2007, Parsons 2008). A 2008 study indicates the species may be associated with areas of tall vegetation providing canopy cover, shrubs that provide food such as Acacia and Gastrolobium species and reduced sedge cover (Parsons 2008).	Possible The Survey Area occurs within the species range (Pizzey and Knight 2007) and the species has been recorded recently in the surrounding area, the closest of which are a swathe of secondary sign records from 2019 however, their certainty is not assured (DBCA 2020b). The next closest certain records of which are once during 2015, twice during 2014 and once during 2013 between 25 – 30 km south of the Survey Area (DBCA 2020b). However, the Survey Area only contains marginal habitat. Due to these factors, the species is considered to possibly occur.
Princess Parrot (Polytelis alexandrae)	Vu	P4	The major threats for the species include, habitat degradation, inappropriate fire regimes and habitat alteration by non-native herbivores (DEWHA 2008, DotE 2020g).	Often found far from fresh water, inhabits areas with spinifex under Eucalypts, acacias, desert oaks and poplars, hakeas and mistletoes or vegetation near salt lakes (Pizzey and Knight 2007).	Unlikely The Survey Area lies on the edge of the species irregular range (Pizzey and Knight 2007), and nearby records are restricted to one undated record ~ 23 km northwest of the Survey Area near Laverton (DBCA 2020b).
Wood Sandpiper (Tringa glareola)	Mi	IA	Species migratory between Australia and Siberia, and through much of Asia. Therefore, protected under international agreements Bonn, CAMBA, JAMBA and ROKAMBA. Habitat loss and degradation are the largest threats to the species, particularly the availability of foraging and roosting sites required for successful migration and breeding (Bamford et al. 2008, DEWHA 2009).	Small to large sized shore bird inhabit shallow aquatic areas on coasts, mudflats, saltmarshes, estuaries, lake margins and other inland waters and bore or grassy plains, including artificial water sources (DotE 2020c, Pizzey and Knight 2007).	Confirmed See Section 5.3.2
Two wagtails from the family Motacillidae: • Yellow Wagtail (Motacilla flava) • Grey Wagtail (Motacilla cinerea)	Mi	IA	None listed (DotE 2020d, e).	Yellow and Grey Wagtails are listed as rare vagrants to the Australian continent from the North. Inhabit areas associated with water including running water/ streams, sewage ponds, swamp margins and saltmarshes and lawns, ploughed fields and airfields (Pizzey and Knight 2007).	Unlikely The species have not been recorded recently nearby and mainly visit northern areas of Australia (Menkhorst et al. 2017, Pizzey and Knight 2007).

Common name (scientific name)	Conservatio	1	Key threats and reason for listing	Habitat	Likelihood of occurrence and reason for likelihood
Gull-billed Tern (Sterna nilotica)	EPBC Act	IA	Species migratory between Australia and Siberia, and through much of Asia. Therefore, protected under international agreements CAMBA (DotE 2020b).	Shallow sheltered seas close to land, estuaries, tidal creeks; and inundated samphire flats, flooded salt lakes, claypans and watercourses in the interior (Johnstone and Storr 1998). Tends to breed on islands in inland lakes (Pizzey and Knight 2007).	Unlikely The Survey Area does not contain suitable habitat (Pizzey and Knight 2007), and the species has only been recorded once recently nearby (~40 km northwest of the Survey Area during 2000) (Birdlife Australia 2020).
Fork-tailed Swift (Apus pacificus)	Mi	IA	Species migratory between Australia and much of Asia. Therefore, protected under international agreements CAMBA, JAMBA and ROKAMBA. There are no significant threats to the Fork-tailed Swift in Australia. Potential threats include habitat destruction and predation by feral animals (DoAWE 2020a).	Aerial species, which forages high above the tree canopy and rarely lower (Johnstone and Storr 1998). Forage in high-flying flocks over a wide range of habitats, however, may be more abundant over inland plains (Menkhorst et al. 2017). The species tends to arrive in Australia between October and November, with numbers peaking in late summer, and migrate north in April (Menkhorst et al. 2017). Species is occasionally observed during winter (Menkhorst et al. 2017).	Possible The species is a non-breeding visitor to Australia, is exclusively an aerial forager and has a large foraging range (Menkhorst et al. 2017, Simpson and Day 2010). The Survey Area occurs within the species range (Menkhorst et al. 2017), and the species may flyover the Survey Area on an irregular basis but is not dependent on habitats within the Survey Area.
Common Sandpiper (Actitis hypoleucos)	Mi	IA	The species migrates to Australia from Europe and Asia during the non-breeding season, arriving in late July-August and departing in March. Despite its name, they are not particularly common in Australia (DotE 2020f, Menkhorst et al. 2017). Threats include habitat changes and/or loss, reduction of water quality and regulation of rivers, pollution, pesticide use, global warming, and human disturbance (including fishing, shellfish harvesting) (DotE 2020f).	Found along all coastlines of Australia and in many areas inland, the Common Sandpiper is widespread in small numbers (DotE 2020f). Characteristic of narrow and often steep shorelines, often in sheltered setting used by few or no other shorebirds. Habitats include mangrove-lined creeks, mud with outcropping of rocks, steep-sided sewage ponds and dams. Usually solitary or in very small groups (Menkhorst et al. 2017).	Confirmed See Section 5.3.3
Seven ibis, plover, sandpiper, greenshank and stint species from the families; Threskiornithidae, Ardeidae Charadriidae, and Scolopacidae. Sharp-tailed Sandpiper (Calidris acuminata) Pectoral Sandpiper (Calidris melanotos) Red-necked Stint (Calidris ruficollis) Glossy Ibis (Plegadis falcinellus) Common Greenshank (Tringa nebularia) Eastern Great Egret (Adrea modesta) Oriental Plover (Charadrius veredus)	Mi	IA	Species migratory between Australia and Siberia, and through much of Asia. Therefore, protected under international agreements CAMBA, JAMBA and ROKAMBA. Habitat loss and degradation are the largest threats to the species, particularly the availability of foraging and roosting sites required for successful migration and breeding (Bamford et al. 2008, DEWHA 2009).	Small to large sized shore birds inhabit shallow aquatic areas on coasts, mudflats, saltmarshes, estuaries, lake margins and other inland waters and bore or grassy plains (Pizzey and Knight 2007).	Possible While these species have been recorded in the surrounds, the Survey Area is devoid of natural habitat such as drainage lines or inland waters (Pizzey and Knight 2007). The Survey Area does contain artificial sources of water which may provide suitable habitat to some species, however information on utilisation and benefit to individual species is limited (Birdlife Australia 2004). As such, while the species may fly over the Survey Area and may use the artificial water source habitats, they are unlikely to depend upon any habitats within the boundaries and more likely to use suitable areas nearby (e.g. Lake Carey).
Hooded Plover (Thinornis cucullatus)		P4	-		

	Conservatio	n status	V How only over a second s	I I alla da sua	
Common name (scientific name)	EPBC Act	WA	Key threats and reason for listing	Habitat	Likelihood of occurrence and reason for likelihood
Peregrine Falcon (Falco peregrinus)		S	particularly wooded areas which serve as nesting sites to the species in the absence of cliffs (DotE	The species occurs along cliffs, gorges, wooded rivers, wetlands, plains and open woodlands, as well as in association with pylons and buildings (Pizzey and Knight 2007). Nests on cliffs, in crevices, large tree hollows or on building ledges (Pizzey and Knight 2007).	Possible The Survey Area occurs within the species current range (Pizzey and Knight 2007), and the species has been recorded recently nearby, including one 2012 and two 2004 records 25 – 30km from the Survey Area (DBCA 2020b). However, the Survey Area does not contain optimal habitat or roosting trees, and all records are associated with Lake Carey which would provide more suitable habitat (DBCA 2020b). As such, while the species possibly occurs within the Survey Area, they are more likely to depend upon surrounding areas.
Reptiles					
Great Desert Skink (Liopholis kintorei)	Vu	VU	The biggest threats to the species include, predations (especially after loss of vegetation cover), inappropriate fire regimes, habitat alteration by non-native herbivores and habitat degradation due to weed invasion (DotE 2020a, Threatened Species Scientific Committee 2016).	Arid areas with spinifex sandflats and clay/ loamy soils (Wilson and Swan 2013).	Unlikely The Survey Area does not contain suitable habitat (Wilson and Swan 2013) and the species has not been recorded recently nearby (one record during 1967 ~40 km northeast of the Survey Area) (DBCA 2020b). As such, the species is considered unlikely to occur.

5.4 Matters of National Environmental Significance

For the purposes of this report, Matters of National Environmental Significance (MNES) are defined as fauna that are listed under the EPBC Act and that have been confirmed to occur within the Survey Area or are considered likely to occur. Fauna that are listed under the EPBC Act but are considered unlikely or possible to occur in the Survey Area were not considered. Two species listed as migratory under the EPBC Act is considered within this section, the Wood Sandpiper (*Tringa glareola*) (Mi; IA) and the Common Sandpiper (Actitis hypoleucos) (Mi, IA). No species listed as threatened under the EPBC Act were identified during the Survey.

The terminology, rationale and criteria used within this section is consistent with the Commonwealths Matters of National Environmental Significance: Significant impact guidelines 1.1 (DotE 2013). The following key definitions are directly relevant to the information presented in **Table 5-5**.

5.4.1 What is important habitat for a migratory species?

An 'important habitat' for the migratory species is defined by DotE (2013) as:

- habitat utilised by a migratory species occasionally or periodically within a region that supports an
 ecologically significant proportion of the population of the species; and/or
- habitat that is of critical importance to the species at particular life-cycle stages; and/or
- habitat utilised by a migratory species which is at the limit of the species range; and/or
- habitat within an area where the species is declining.

The DEWHA (2009) describe Important Habitat for the Wood Sandpiper and Common Sandpiper as:

- a site identified as an internationally important wetland (RAMSAR); and/or
- a site that supports:
 - o at least 0.1% of the flyway population of the species; or
 - o at least 2,000 migratory shorebirds; or
 - o at least 15 shorebird species.

5.4.2 What is an ecologically significant population?

As defined by DotE (2013), an ecologically significant proportion of the population of migratory species varies with each species and when assessing an ecologically significant proportion the following factors should be considered; populations status, genetic distinctiveness and species specific behavioural patterns. The Survey Area does not contain significant habitat for either the Wood Sandpiper or the Common Sandpiper, based on the criteria in **Section 5.4.1** (**Table 5-5**).

Table 5-5: MNES criteria for the Wood Sandpiper and Common Sandpiper, recorded during the Survey

Species	Wood Sandpiper (Tringa glareola)
Occurrence in the Survey Area	One individual observed at the evaporation ponds
Does the Survey Area contain Important Habitat?	 No Each of the Important habitat criteria for the species is assessed below: Habitat utilised by an ecologically significant proportion of the population: No, only one individual was recorded. Australian population is estimated at 130,000 and the global population is estimated at between 3,055,000 – 4,320,000 (DotE 2020c); Habitat that is critical to the species at particular life-cycle stages: No, breeding does not occur within Australia; Habitat utilised at the limit of the species range: No, whilst scarce in the interior of Australia, the Survey Area is not on the limit of the known range; Habitat within an area where the species is declining: No, in Australia the species has shown no change in the last 20 years, whereas the breeding population has declined in some areas (DotE 2020c); A site identified as an internationally important wetland (RAMSAR): No, the Survey Area does not intersect any internationally important wetlands; A site that supports; 0.1% of the flyway population, ≥2,000 individuals or ≥15 shorebird species: No.
Species	Common Sandpiper (Actitis hypoleucos)
Occurrence in the Survey Area	One individual observed at the return water pond
Does the Survey Area contain Important Habitat?	 No Each of the Important habitat criteria for the species is assessed below: Habitat utilised by an ecologically significant proportion of the population: the Australian non-breeding population is estimated at 3000, and the global population is estimated at between 2,455,000 and 4,030,000 (Bamford et al. 2008, DotE 2020f); Habitat that is critical to the species at particular life-cycle stages: No, breeding does not occur within Australia; Habitat utilised at the limit of the species range: No, the Survey Area is not on the limit of the known range; Habitat within an area where the species is declining: No record of decline in Australia (DotE 2020f); A site identified as an internationally important wetland (RAMSAR): No, the Survey Area does not intersect any internationally important wetlands; A site that supports; 0.1% of the flyway population, ≥2,000 individuals or ≥15 shorebird species: No.

5.5 Short-range Endemic Invertebrate Fauna

5.5.1 SRE invertebrate fauna habitat

The seven fauna habitats identified during the Survey (**Section 5.1**) were assessed and categorised as having a high, medium or low potential to support terrestrial SRE taxa. This was based on the presence of microhabitats, habitat extent (restricted or widespread in the landscape), and whether the habitat occurred in isolation or was well connected in the landscape (**Table 5-6**; **Figure 5-7**).

Table 5-6: Assessment of SRE potential within the identified habitats of the Survey Area

		Assessment criteria			
Habitat	Presence of microhabitats	Restricted in the landscape	Isolated in the Iandscape	SRE potential	
Mulga on clay loam	*	*	*	Low	
Mulga on stony plain	*	*	*	Low	
Stony rise	✓	✓	*	Medium	
Shrub plain	*	✓	✓	Medium	
Low mulga on clay loam	*	✓	*	Low	
Outcropping	✓	✓	✓	High	
Sparse shrubland on heavy clay	*	✓	*	Low	

One habitat, outcropping, was assessed as having a high potential to support SRE species (**Table 5-6**). The outcropping habitat contained microhabitat features such as cracks and crevices, which can accumulate soil and leaf litter, and create mesic microhabitats likely to support SRE taxa, such as scorpions, land snails, millipedes and pseudoscorpions (Main 2000).

Two habitats; shrub plain and stony rise were assessed as having a medium potential to support SRE species (**Table 5-6**). The shrub plain habitat is relatively restricted and isolated in the landscape, comprising only a small portion of the Survey Area, however, offers little in the way of microhabitats. The stony rise habitat conversely contains some microhabitat features, such as cracks and crevices, as well as being restricted in the landscape, however, is not isolated in the landscape. Consequently, although these habitats may be restricted, they may not support SRE potential species due to lack of microhabitats or isolation.

The remaining five habitats within the Survey Area were assessed as having a low potential to support SRE species (**Table 5-6**). These habitats offered little to no microhabitats and were widespread and connected throughout the landscape.

5.5.2 SRE invertebrate taxa

The desktop assessment identified 12 invertebrate taxa that have potential to occur within the Survey Area and based on current known distributions, fulfill the criteria of being potential SRE species i.e. having a distribution of less than 10,000 km² (Section 3.1.4). Of these, four have been recorded within 20 km of the Survey Area, three of which were from within the Survey Area (Table 5-7). However three of these could not be identified to species level (see Section 3.2.3). During the Survey, a total of 20 specimens represented by nine taxa were collected from known SRE invertebrate groups within the Survey Area, six of which were identified to species (Table 5-8; Figure 5-7), equating to 28 specimens from eight taxa including desktop results.

Table 5-7: Invertebrate taxa from the desktop assessment recorded within 20 km from the Survey Area

Group	Family	Genus	Species	Distance to Survey Area (km)
Mygalomorph	Anamidae	Aname	`MYG629`	6.3
spider		Aname	sp. indet.*	within
	Idiopidae	Aganippe	sp. indet.*	within
Scorpions	Urodacidae	Urodacus	sp. indet.*	within

^{*} Denotes specimens that could not be identified to species

Based on the identifications undertaken by Dr Erich Volschenk and Simon Judd of Alacran Environmental Science, there were six taxa identified to morphospecies, two taxa that were only able to be identified to genus, and one taxa was only able to be identified to family from the Survey (**Table 5-8**).

Many taxa are difficult to sample adequately. For example, mygalomorph spiders are time-consuming to locate, and morphological identification requires adult male specimens, which are often in low abundance and only emerge from their burrow during specific conditions, such as following rain or during humid nights.

Two mygalomorph spiders were able to be identified to species, *Mandjelia* 'MYG438', a widespread species in the eastern Goldfield and eastern Murchison regions (**Table 5-8**; **Figure 5-7**). The other mygalomorph spider was represented by a single male specimen and was matched to previously

undetermined *Proshermacha* specimens in the WA Museum from Irwin Hills. It was given the morphospecies code 'MYG715' and is a potential SRE owing to data deficiency regarding its distribution limits. The remaining six mygalomorph spider specimens comprised female specimens and therefore could not be identified to species level (**Table 5-8**). They were identified as *Idiopidae* sp. and *Idiosoma* sp., with the SRE status of 'Potential SRE: (data deficient)'. Furthermore, five mygalomorphs were collected in 2014, however these were only identified to genus as they comprised females and juveniles, and are classified as potential SREs. These comprised three females and one juvenile from the *Agnippe* genus, and one juvenile from the *Aname* genus (MWH 2014), equating to 11 mygalomorph specimens from four taxa collected from the Survey Area. Genetic analysis would be required to determine the relationship of these specimens and their distribution.

The scorpion specimens from the current survey were identified to *Lychas jonesae*, a well-known and widespread species in the eastern Goldfields and eastern Murchison regions and is found across the more arid southern half of Australia, where it has been recorded from Kalgoorlie to Berry in South Australia (**Table 5-8**; **Figure 5-7**). A scorpion was identified in 2014, however as it was a sub-adult this could only be identified to genus *Urodachus* (MWH 2014).

The slater specimens were able to be identified to two morphospecies: Buddelundia '103' and Buddelundia '106' (Table 5-8; Figure 5-7). No males of the Buddelundia '103' species have previously been collected, and such this species is described solely from female specimens and lacks formal taxonomic description. This morphospecies has a limited distribution and such is considered 'Potential SRE' however, due to taxonomic uncertainty is it also considered data deficient. A single specimen of Buddelundia '106' was collected during the Survey and marked the first male of the morphospecies to be collected. Very little is known about distribution and such is considered 'Potential SRE: Data Deficient'. Buddelundia '103' was collected from shrubland plain habitat while Buddelundia '106' was collected from Mulga on clay loam habitat. A recent search of the Alacran Environmental database (7 March 2023) which uses Simons Judds nomenclature for slaters did not reveal any additional matches for these taxa.

One pseudoscorpion specimen was collected during the Survey, belonging to the *Synsphyronus* genus (**Table 5-8**; **Figure 5-7**). This specimen was collected from Site D, within the mulga on clay loam habitat. The specimen did not conform to any previously described Western Australia morphospecies and is the only known specimen of *Synsphyronus* 'weld'. Thus, this morphospecies is considered 'Potential SRE: Data Deficient'.

One land snail specimen was collected during the Survey, belonging to the Pupillidae family (**Table 5-8**; **Figure 5-7**). Western Australian species in the family Pupillidae are generally quite widespread are therefore not SREs.

Table 5-8: Specimens from SRE groups collected during the Survey

Group	Site	Sample number	Identification	# of individuals	Collection method	SRE status	Habitat
	Α	LN7479	Idiosoma sp.	1	Burrow excavation	Potential SRE: Data Deficient	Shrub plain
	Α	LN6984	Zodariidae sp.	1	Dry pitfall trap	Widespread	Shrub plain
	D	LN9454	Idiopidae sp.	1	Burrow excavation	Potential SRE: Data Deficient	Mulga on clay loam
	D	LN8963	Idiopidae sp.	1	Burrow excavation	Potential SRE: Data Deficient	Mulga on clay loam
	D	LN6987	Mandjelia 'MYG438'	1	Burrow excavation	Widespread	Mulga on clay loam
	D	647	Proshermacha 'MYG715'	1	Dry pitfall trap	Potential SRE: Data Deficient	Mulga on clay loam
	SRE1	LN8970	Idiosoma sp.	1	Burrow excavation	Potential SRE: Data Deficient	Mulga on clay loam
	SRE2	LN7976	Idiosoma sp.	1	Burrow excavation	Potential SRE: Data Deficient	Mulga on clay loam
A A B C	Α	LN6622	Lychas jonesae	1	Targeted search	Widespread	Shrub plain
	Α	LN9464	Lychas jonesae	1	Dry pitfall trap	Widespread	Shrub plain
	Α	653	Lychas jonesae	1	Dry pitfall trap	Widespread	Shrub plain
	В	723	Lychas jonesae	1	Dry pitfall trap	Widespread	Stony rise
	С	LN8961	Lychas jonesae	1	Targeted search	Widespread	Mulga on clay loam
	С	LN7468	Lychas jonesae	1	Targeted search	Widespread	Mulga on clay loam
	D	LN6624	Lychas jonesae	3	Targeted search	Widespread	Mulga on clay loam
	D	712	Lychas jonesae	1	Dry pitfall trap	Widespread	Mulga on clay loam
seudoscorpion	D	LN6256	Synsphyronus 'weld'	1	Opportunistic	Potential SRE: Data Deficient	Mulga on clay loam
and snail	В	626	Pupillidae sp.	1	Leaf sieving	Widespread	Stony rise
Slater	Α	LN7966	Buddelundia '103'	1	Dry pitfall trap	Potential SRE: Data Deficient	Shrub plain
	D	LN7988	Buddelundia '106'	1	Dry pitfall trap	Potential SRE: Data Deficient	Mulga on clay loam

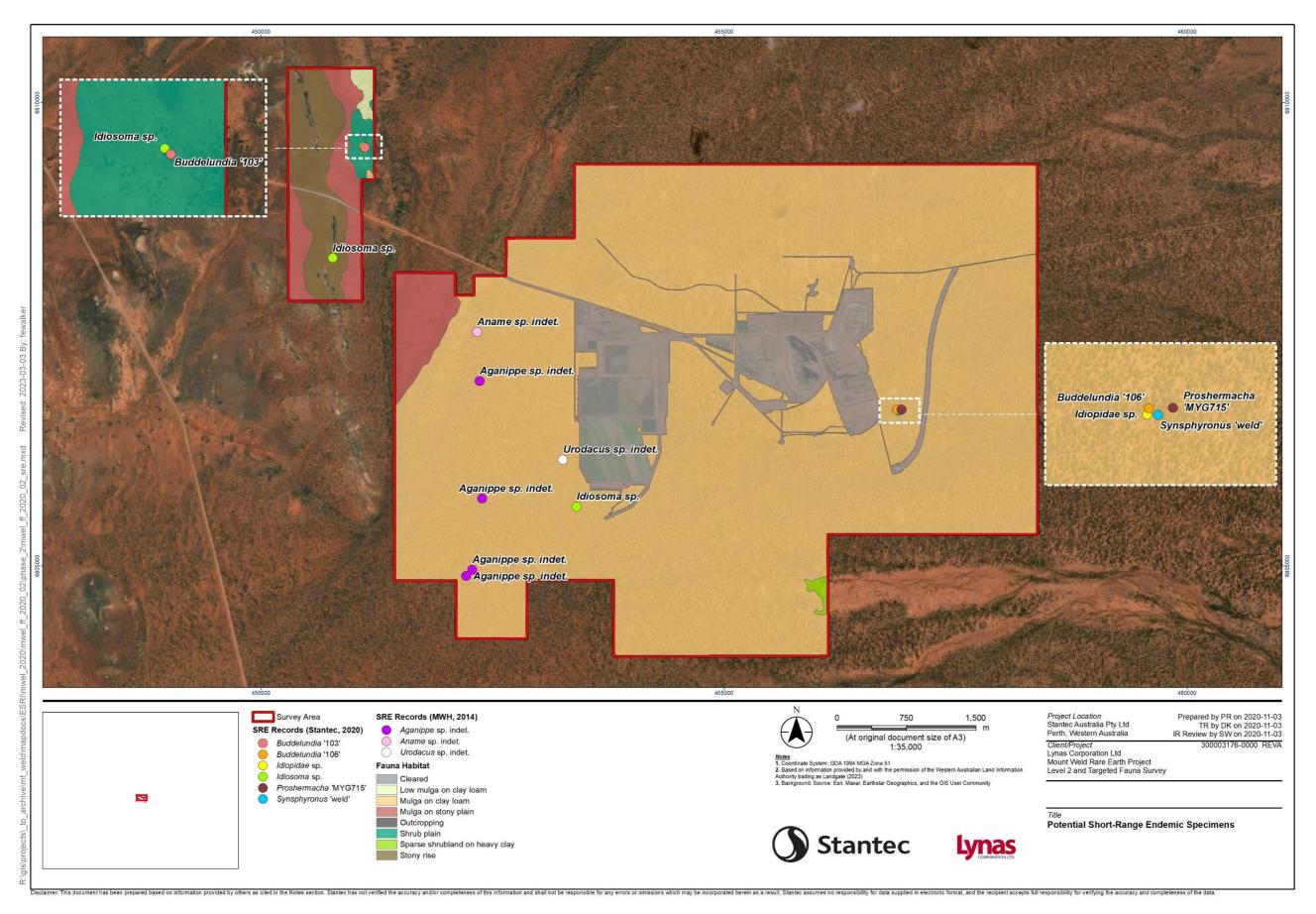


Figure 5-7: SRE invertebrate specimen records within the Survey Area (from the desktop assessment and this Survey)

6. Survey Limitations and Constraints

There are a number of possible limitations and constraints that can impinge on the adequacy of fauna surveys (EPA 2020b) (Table 6-1). All fauna surveys are limited to some degree by time and seasonal factors; consequently, it is most ideal if multiple surveys of an area are undertaken over a number of years and across different seasons (Table 6-1).

This Survey was potentially limited by seasonal factors within the Survey Area and the proportion of fauna identified (**Table 6-1**).

Table 6-1: Potential constraints of the Survey

Factor	Constraint	Comments
Competency and experience of consultants	No	Melissa Jensen was the technical lead, who is an experienced zoologist with over 10 years' experience supported by Stephanie Williams who was the survey lead with 2 years' experience. All team members are competent zoologists/ecologists and all identifications were confirmed by experienced senior zoologist, Melissa Jensen.
Scope	No	All terrestrial vertebrate fauna groups were surveyed using standardised and well-established techniques, and available previous survey work in the vicinity of the Survey Area was reviewed. Bat echolocation recordings were analysed by Robert Bullen of BatCall WA. Potential SRE specimens were analysed by invertebrate taxonomists Dr Erich Volschenk and Simon Judd of Alacran Environmental Science.
Proportion of fauna identified	Partial	Seasonal conditions for the Survey were dry, with below average rainfall in the 12 months preceding the Survey. The inventory of 95 species of vertebrate fauna recorded during the Survey represents 34.8% of the total number of species identified by database searches and surveys in the vicinity of the project (n = 273). The species accumulation curves suggest that additional survey effort would increase the number of species recorded in the Survey Area, however these do not include the additional records made by targeted and opportunistic methods. Most taxonomic groups expected within the Survey Area were represented and the species richness for each faunal group was considered above that of previous surveys in the area. All species were identified using the latest published literature.
Information sources (e.g. historic or recent)	No	Stantec had access to previous reports conducted for the Project, which comprised level 1 and targeted fauna surveys from 1992 to 2019. Stantec conducted a detailed analysis of survey reports, which included the Survey Area and immediate surrounds, summarised in Section 3.1.2 . Despite reports of similar surveys (level 2) conducted in the vicinity of the Survey Area not being available, there was considerable previous data that was able to be consolidated to provide local and regional context for this survey.
Completeness and intensity	No	The Survey Area has been assessed for its value to fauna by this baseline fauna survey. All planned survey works were conducted according to scope, and data relating to significant fauna can be used to inform environmental approvals for the Project. This report details the results of phase 1 of a dual-phase Level 2 fauna survey of the Survey Area, with phase 2 to be undertaken in spring 2020.
Timing / weather / season / cycle	No	Timing, weather, and seasonality of the survey were appropriate for vertebrate fauna in the Murchison bioregion. Rainfall was below average for the 12 months preceding the Survey however, above average rainfall was recorded in January, courtesy of an extropical cyclone system, and in August. Optimal timing for SRE sampling recommended by the Technical Guidance is following rainfall (November to April) (EPA 2016b).

Factor	Constraint	Comments
Disturbances	No	The Survey Area encompasses the mine footprint and exploration tracks, an area of 328 ha (10.1%) of cleared habitat. However, the majority of the Survey Area was not impacted by disturbances (3,227 ha; 89.9%). No recent fire has disturbed the Survey Area. The locations for establishment of systematic sites were selected to avoid areas disturbed by mine and exploration activities.
Intensity	No	The Survey Area was systematically surveyed across four sites for a total of 2,912 trap nights, 1,120 minutes of avifauna census, 640 minutes of systematic searches, 320 minutes of spotlighting, 112 motion-sensor camera nights (16 locations) and 16 echolocation recorder nights (eight locations). This survey work was supplemented with targeted survey effort comprising four echolocation recorder locations, 880 motion-sensor camera nights (64 locations), 100 minutes of targeted avifauna census (five locations), and Malleefowl transects at eleven locations. As such, survey intensity was sufficient for detecting fauna, particularly those of significance within the Survey Area.
Completeness	No	The Survey was complete. Well represented habitats that were likely to yield the greatest diversity and abundance of captures – mulga on clay loam, shrub plain, and stony rise – were targeted for systematic site establishment, and the Survey Area was adequately covered geographically. Targeted survey effort was undertaken on foot in less accessible areas to better understand the occurrence of significant fauna within the Survey Area.
Resources	No	Resources were adequate to carry out the Survey satisfactorily.
Remoteness / access problems	No	Access to areas within the Survey Area was good and survey coverage was adequate to understand fauna assemblages and occurrence of significant fauna within the Survey Area (Figure 4-3). Some areas of the Survey Area had limited access and tracks, however, the habitats within these areas were not dissimilar to those sampled elsewhere in the Survey Area and were less likely to support significant fauna.

7. Summary

The inventory of 95 species of vertebrate fauna recorded during this Survey represents 34.8% of the total number of species identified from the database searches and fauna surveys undertaken in the vicinity of the Project (n = 273). Species recorded during the Survey comprised of 18 native mammals, five nonnative, 52 birds and 20 reptiles (nil amphibians). Eleven species recorded during the Survey were not identified during the desktop assessment; the Ooldea Dunnart, Western Grey Kangaroo, White-striped Freetailed Bat, South-western Free-tailed Bat, Inland Free-tailed Bat, Western Whistler, Whiskered Tern, Mulga Dragon, Dark-spined Blind Snake, Banded Knob-tailed Gecko and the Perentie, none of which were fauna of significance.

Seven broad fauna habitat types were identified within the Survey Area and the land systems in which these habitats occur were considered typical of the East Murchison subregion. Within the Survey Area, the stony rise, and outcropping habitats were the most important fauna habitats at a local scale. These habitats were of limited extent within the Survey Area and are important to the listed Long-tailed Dunnart (P4). These habitats also supported microhabitats including rocky crevices and cracks.

The desktop assessment identified 25 significant fauna species with the potential to occur within the Survey Area comprising six mammals, 18 birds and one reptile. Three of these species were confirmed as occurring during the Survey comprising:

- Long-tailed Dunnart (P4);
- Wood Sandpiper (Mi; IA); and
- Common Sandpiper (Mi; IA).

Based on the desktop assessment and habitats identified within the Survey Area, an additional 11 species were assessed as possible and eight were assessed as unlikely to occur. The Long-tailed Dunnart was recorded on four occasions during the Survey within the Stony rise habitat, its preferred habitat. The species has been recorded on 12 occasions in the vicinity of the Survey Area. The Long-tailed Dunnart was recorded at 25 locations (212 records) on stony rises to the north of the Survey Area from regional deployments of motion-sensor cameras, confirming that the species is present on other stony rises in the region.

Of the species recorded or likely to occur, the Wood Sandpiper and Common Sandpiper are listed as migratory under the EPBC Act and are therefore considered to represent MNES. The Survey Area was determined not to contain any important habitat nor support an ecologically significant proportion of the population of the Wood Sandpiper and Common Sandpiper, due to limited aquatic habitat.

The fauna assemblages within the Survey Area were sampled at systematic trapping sites. Species accumulation curves indicated that between 70% to 100% of the fauna assemblages was captured during the Survey, however further survey effort is likely to result in more avifauna species being recorded. Additional mammal, avifauna and herpetofauna species were recorded from the Survey Area via targeted and opportunistic survey methods that were not captured in the species accumulation curves. The species assemblages recorded during the Survey, recorded a higher number of species than previous surveys undertaken in the vicinity of the Survey Area.

Habitats in the Survey Area were assessed for the potential to support SRE species based on the presence of microhabitats, habitat extent and isolation. Based on these criteria, one habitat, outcropping, was assessed as having a high potential to support SRE species. In addition, the shrub plain and stony rise habitat were assessed as having a medium potential to support SRE species.

A total of 20 specimens from groups prone to short-range endemism were collected during the Survey. Of these, six were identified to morphospecies and four taxa were only able to be identified to genus. Although none were known SRE species, the following were considered to represent potential SRE species and were classified as data deficient.

- the mygalomorph spider specimens from the genus Idiosoma sp.;
- the mygalomorph spider specimens from the genus Idiopidae sp.;
- the mygalomorph spider specimen from the genus Proshermacha sp.;
- the slater specimen from the morphospecies Buddelundia '103';
- the slater specimen from the morphospecies Buddelundia '106'; and
- the pseudoscorpion specimen from the morphospecies Synsphyronus 'weld'.

Furthermore, six specimens were collected from the Survey Area in 2014, which were unable to be identified to genus. These comprised two mygalomorph taxa (*Aname* sp. indet., *Aganippe* sp. indet) and one scorpion taxa (*Urodacus* sp. indet). The slater specimens were collected from within the shrub plain

habitat which was assessed as having a medium potential to support SRE taxa. The remaining potential SRE specimens were collected from within the widespread mulga on clay loam habitat, which held a low potential to support SRE taxa. To understand their lineage and distribution within the Survey Area and in the broader regional context, more specimens would need to be collected and genetic analysis would be required in some instances.

In summary, the species assemblages recorded during the Survey, represented a higher number of species than previous surveys undertaken in the vicinity of the Survey Area. Three significant terrestrial vertebrate fauna species were recorded during the Survey, and no others were considered 'likely' to occur. The Long-tailed Dunnart was recorded on four occasions during the Survey, and in previous surveys in the vicinity of the Survey Area. The species was recorded within the stony rise and adjacent outcropping habitat. Motion-sensor cameras recorded the Long-tailed Dunnart at 25 locations on stony rises to the north of the Survey Area, suggesting the species persists on other stony rises within the region. The outcropping habitat also supported important microhabitat features for potential SRE species. The other habitats had limited importance to significant fauna and fauna assemblages.

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Appendix A Text codes and terms used to describe significant fauna

The Environmental Factor Guideline for Terrestrial Fauna (EPA 2016a) states that terrestrial fauna may be significant for a range of reasons, including: being identified as a threatened or priority species; species with restricted distribution; degree of historical impact from threatening processes and providing an important function required to maintain the ecological integrity of a significant ecosystem.

Those fauna defined as threatened and priority are legislated protection under the EPBC Act and/or the BC Act, or by being listed on the DBCA Priority Species List. This appendix presents a summary of the different rankings and listings used to describe conservation status. Some categories such as 'extinct', 'extinct in the wild' and 'conservation dependent' (EPBC Act) are not represented here, as the table includes only the information needed to fully understand the codes presented in the preceding report. Refer to the relevant legislation for a full description of all codes in use, as well as their associated criteria.

Categories used under the EPBC Act					
Status	Code	Description			
Critically Endangered	Cr	Taxa considered to be facing an extremely high risk of extinction in the wild in the immediate future			
Endangered	En	Taxa considered to be facing a very high risk of extinction in the wild in the near future			
Vulnerable	Vu	Taxa considered to be facing a high risk of extinction in the wild in the medium-term future			
Migratory	Mi	Species that migrate to, over and within Australia and its external territories			

Conservation Codes used under the BC Act					
Status	Code	Description			
Critically Endangered	CR	Taxa rare or likely to become extinct, as critically endangered taxa			
Endangered	EN	Taxa rare or likely to become extinct, as endangered taxa			
Vulnerable	VU	Taxa rare or likely to become extinct, as vulnerable taxa			
Presumed Extinct	EX	Taxa presumed to be extinct			
Migratory	IA	Birds subject to international agreements relating to the protection of migratory birds			
Conservation Dependent	CD	Taxa of special conservation need, being species dependent on ongoing conservation intervention			
Special Protection	S	Taxa in need of special protection			

	Priority Fauna Under the BC Act				
Status	Code	Description			
Priority 1: Poorly- known Species	P1	Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.			
Priority 2: Poorly- known Species	P2	Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.			
Priority 3: Poorly- known Species	Р3	Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.			
Priority 4: Rare, Near Threatened and other species in need of monitoring	P4	 (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands. (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable but are not listed as Conservation Dependent. (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy. 			

Appendix B Database search results

Table B-1: Birdlife Bird Data (Birdlife Australia 2020)

	Birdlife Species list		
Common Name	Scientific Name	No of sightings from 126 surveys	Most recent record
Emu	Dromaius novaehollandiae	21	22-01-19
Stubble Quail	Coturnix pectoralis	1	10-05-01
Musk Duck	Biziura lobata	2	06-08-04
Freckled Duck	Stictonetta naevosa	2	17-02-17
Black Swan	Cygnus atratus	11	17-06-15
Australian Shelduck	Tadorna tadornoides	23	16-07-19
Australian Wood Duck	Chenonetta jubata	13	21-01-19
Pink-eared Duck	Malacorhynchus membranaceus	18	16-07-19
Australasian Shoveler	Anas rhynchotis	3	04-08-14
Grey Teal	Anas gracilis	31	16-07-19
Pacific Black Duck	Anas superciliosa	25	16-07-19
Hardhead	Aythya australis	12	01-05-13
Australasian Grebe	Tachybaptus novaehollandiae	12	15-07-19
Hoary-headed Grebe	Poliocephalus poliocephalus	24	16-07-19
Rock Dove	Columba livia	1	01-11-99
Common Bronzewing	Phaps chalcoptera	9	21-08-19
Crested Pigeon	Ocyphaps lophotes	56	11-08-18
Diamond Dove	Geopelia cuneata	4	10-08-18
Tawny Frogmouth	Podargus strigoides	1	07-09-00
Spotted Nightjar	Eurostopodus argus	1	07-09-00
Australian Owlet-nightjar	Aegotheles cristatus	2	14-07-01
Australasian Darter	Anhinga novaehollandiae	1	15-11-00
Little Pied Cormorant	Microcarbo melanoleucos	1	26-03-75
White-necked Heron	Ardea pacifica	9	22-01-19
Eastern Great Egret	Ardea modesta	2	26-03-75
Cattle Egret	Ardea ibis	1	21-05-17
White-faced Heron	Egretta novaehollandiae	11	04-08-14
Glossy Ibis	Plegadis falcinellus	1	05-11-00
Black-shouldered Kite	Elanus axillaris	8	03-07-16
Whistling Kite	Haliastur sphenurus	5	03-07-16
Brown Goshawk	Accipiter fasciatus	1	23-07-01
Collared Sparrowhawk	Accipiter cirrocephalus	2	22-01-19
Spotted Harrier	Circus assimilis	1	15-07-19
 Wedge-tailed Eagle	Aquila audax	27	01-05-13
Little Eagle	Hieraaetus morphnoides	1	11-08-18
Nankeen Kestrel	Falco cenchroides	38	08-08-16
Brown Falcon	Falco berigora	31	22-01-19
Australian Hobby	Falco longipennis	5	12-03-04
Black-tailed Native-hen	Tribonyx ventralis	10	22-01-19
Eurasian Coot	Fulica atra	10	16-07-19

	Birdlife Species list		
Common Name	Scientific Name	No of sightings from 126 surveys	Most recent record
Australian Bustard	Ardeotis australis	1	23-07-01
Black-winged Stilt	Himantopus himantopus	9	22-01-19
Red-necked Avocet	Recurvirostra novaehollandiae	4	01-05-13
Banded Stilt	Cladorhynchus leucocephalus	1	18-05-17
Red-capped Plover	Charadrius ruficapillus	12	04-08-14
Black-fronted Dotterel	Elseyornis melanops	27	15-07-19
Red-kneed Dotterel	Erythrogonys cinctus	9	22-01-19
Banded Lapwing	Vanellus tricolor	3	21-05-17
Common Greenshank	Tringa nebularia	4	22-01-19
Wood Sandpiper	Tringa glareola	3	20-01-08
Red-necked Stint	Calidris ruficollis	5	01-05-13
Little Button-quail	Turnix velox	3	07-12-11
Galah	Eolophus roseicapillus	32	01-10-14
Cockatiel	Nymphicus hollandicus	6	21-01-19
Purple-crowned Lorikeet	Glossopsitta porphyrocephala	2	24-04-05
Australian Ringneck	Barnardius zonarius	23	22-01-19
Mulga Parrot	Psephotus varius	17	14-07-19
Budgerigar	Melopsittacus undulatus	10	22-01-19
Bourke's Parrot	Neopsephotus bourkii	7	17-02-17
Horsfield's Bronze-Cuckoo	Chalcites basalis	3	10-05-01
Black-eared Cuckoo	Chalcites osculans	1	13-08-99
Pallid Cuckoo	Cacomantis pallidus	12	03-07-16
Red-backed Kingfisher	Todiramphus pyrrhopygius	3	25-08-07
Rainbow Bee-eater	Merops ornatus	4	12-03-04
White-browed Treecreeper	Climacteris affinis	4	22-04-05
Western Bowerbird	Ptilonorhynchus guttatus	27	14-07-19
Splendid Fairy-wren	Malurus splendens	10	20-06-05
White-winged Fairy-wren	Malurus leucopterus	16	16-07-19
Variegated Fairy-wren	Malurus lamberti	1	28-08-02
Redthroat	Pyrrholaemus brunneus	6	15-07-19
Weebill	Smicrornis brevirostris	11	12-08-18
Western Gerygone	Gerygone fusca	2	21-04-05
Slaty-backed Thornbill	Acanthiza robustirostris	5	11-08-18
Yellow-rumped Thornbill	Acanthiza chrysorrhoa	20	07-06-15
Chestnut-rumped Thornbill	Acanthiza uropygialis	29	14-07-19
Inland Thornbill	Acanthiza apicalis	18	12-08-18
Southern Whiteface	Aphelocephala leucopsis	16	11-08-18
Striated Pardalote	Pardalotus striatus	6	05-08-14
Pied Honeyeater	Certhionyx variegatus	4	07-12-11
Singing Honeyeater	Lichenostomus virescens	77	27-09-19

	Birdlife Species list		
Common Name	Scientific Name	No of sightings from 126 surveys	Most recent record
Grey-fronted Honeyeater	Lichenostomus plumulus	4	01-10-14
White-plumed Honeyeater	Lichenostomus penicillatus	2	05-08-14
White-fronted Honeyeater	Purnella albifrons	20	25-05-08
Yellow-throated Miner	Manorina flavigula	60	27-09-19
Spiny-cheeked Honeyeater	Acanthagenys rufogularis	56	22-01-19
Red Wattlebird	Anthochaera carunculata	1	20-06-05
Crimson Chat	Epthianura tricolor	7	06-08-14
Orange Chat	Epthianura aurifrons	2	05-02-13
White-fronted Chat	Epthianura albifrons	3	10-05-01
Black Honeyeater	Sugomel niger	2	04-10-02
Brown Honeyeater	Lichmera indistincta	12	27-09-19
White-browed Babbler Chestnut-breasted Quail- thrush	Pomatostomus superciliosus Cinclosoma castaneothorax	10	03-07-16 05-10-14
Chiming Wedgebill	Psophodes occidentalis	2	15-07-01
Ground Cuckoo-shrike	Coracina maxima	5	23-05-17
Black-faced Cuckoo-shrike	Coracina novaehollandiae	37	08-08-16
White-winged Triller	Lalage sueurii	4	01-05-13
Rufous Whistler	Pachycephala rufiventris	20	04-08-14
Grey Shrike-thrush	Colluricincla harmonica	11	15-07-19
Crested Bellbird	Oreoica gutturalis	50	12-08-18
Masked Woodswallow	Artamus personatus	6	09-12-11
Black-faced Woodswallow	Artamus cinereus	22	01-05-13
Little Woodswallow	Artamus minor	1	04-10-02
Grey Butcherbird	Cracticus torquatus	21	11-08-18
Pied Butcherbird	Cracticus nigrogularis	63	14-07-19
Australian Magpie	Cracticus tibicen	21	05-12-19
Grey Currawong	Strepera versicolor	5	12-09-02
Grey Fantail	Rhipidura albiscapa	1	16-01-00
Willie Wagtail	Rhipidura leucophrys	51	05-12-19
Little Crow	Corvus bennetti	44	19-09-19
Torresian Crow	Corvus orru	17	05-08-14
Magpie-lark	Grallina cyanoleuca	48	27-09-19
Jacky Winter	Microeca fascinans	1	07-09-00
Red-capped Robin	Petroica goodenovii	32	21-01-19
Hooded Robin	Melanodryas cucullata	10	03-04-12
Rufous Songlark	Cincloramphus mathewsi	8	05-08-14
Brown Songlark	Cincloramphus cruralis	5	25-08-07
White-backed Swallow	Cheramoeca leucosterna	15	06-04-12
Welcome Swallow	Hirundo neoxena	34	16-07-19
Fairy Martin	Petrochelidon ariel	4	04-08-14

	Birdlife Species list						
Common Name	Scientific Name	No of sightings from 126 surveys	Most recent record				
Tree Martin	Petrochelidon nigricans	15	05-08-14				
Mistletoebird	Dicaeum hirundinaceum	6	02-05-13				
Zebra Finch	Taeniopygia guttata	50	21-01-19				
Australasian Pipit	Anthus novaeseelandiae	30	10-08-18				
Crow & Raven species		12	27-09-19				

Table B-2: Threatened and Priority Fauna (DBCA 2020b)

CLASS	NAME_SCI	NAME_COM	CONS_CODE	DATE	GDA_LONG	GDA_LAT
IRD	Actitis hypoleucos	Common Sandpiper	IA	27-02-79	122.501400	-28.498700
NVERTEBRATE	Branchinella apophysata	a fairy shrimp (Laverton)	P1	17-01-37	122.166700	-28.800000
NVERTEBRATE	Branchinella denticulata	a fairy shrimp (Carnarvon to Kalgoorlie)	P3	11-04-17	122.381200	-28.869300
NVERTEBRATE	Branchinella simplex	a fairy shrimp (inland WA)	P1	08-03-11	122.328600	-28.867400
NVERTEBRATE	Branchinella simplex	a fairy shrimp (inland WA)	P1	08-03-11	122.240500	-28.814500
VVERTEBRATE	Branchinella simplex	a fairy shrimp (inland WA)	P1	08-03-11	122.275000	-28.835200
NVERTEBRATE	Branchinella simplex	a fairy shrimp (inland WA)	P1	08-03-11	122.381900	-28.936200
IRD	Calidris ruficollis	Red-necked Stint	IA	01-05-13	122.381100	-28.838600
IRD	Calidris ruficollis	Red-necked Stint	IA	23-04-05	122.441400	-29.050900
IRD	Calidris ruficollis	Red-necked Stint	IA	20-01-08	122.381100	-28.838600
IRD	Calidris ruficollis	Red-necked Stint	IA	01-05-13	122.381100	-28.838600
MAMMAL	Dasycercus blythi	Brush-tailed Mulgara	P4	26-05-14	122.761700	-29.100600
MAMMAL	Dasycercus blythi	Brush-tailed Mulgara	P4	26-05-14	122.761900	-29.100800
MAMMAL	Dasycercus blythi	Brush-tailed Mulgara	P4	26-05-14	122.764200	-29.101400
SIRD	Falco peregrinus	Peregrine Falcon	OS	22-03-04	122.422900	-29.052200
SIRD	Falco peregrinus	Peregrine Falcon	OS	19-03-04	122.444300	-29.117000
SIRD	Falco peregrinus	Peregrine Falcon	OS	14-11-12	122.220700	-28.806600
BIRD	Gelochelidon nilotica	Gull-billed Tern	IA	15-11-00	122.200300	-28.597200
MAMMAL	Lagostrophus fasciatus fasciatus	Banded Hare-wallaby, Mernine	VU	01-01-10	122.400000	-28.633300
IRD	Leipoa ocellata	Malleefowl	VU	26-05-14	122.655900	-29.091800
SIRD	Leipoa ocellata	Malleefowl	VU	21-02-15	122.655900	-29.091800
IRD	Leipoa ocellata	Malleefowl	VU	26-05-14	122.655900	-29.091800
SIRD	Leipoa ocellata	Malleefowl	VU	07-10-13	122.615800	-29.129800
BIRD	Leipoa ocellata	Malleefowl	VU	15-05-07	122.419700	-29.063300
SIRD	Leipoa ocellata	Malleefowl	VU	23-02-13	122.482600	-29.196700
SIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.758900	-28.849500
SIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.821100	-28.796400
SIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.864000	-28.802000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.854800	-28.793800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.797100	-28.751000
SIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.830700	-28.794000
SIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.783000	-28.866100
SIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.866200	-28.803800
SIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.627900	-28.694400
IRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.857100	-28.796100
IRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.606200	-28.695300
IRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.766500	-28.735300
IRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.705600	-28.691400
IRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.776500	-28.742500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.844000	-28.926300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.994400	-28.757800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.845100	-28.925300

BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.732700	-28.708000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.845500	-28.925500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.836600	-28.919600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.838000	-28.923000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.883500	-28.533800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.828500	-28.900900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.780900	-28.506000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.852300	-28.930900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.881800	-28.533800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.747800	-28.835700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.742900	-28.828000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.855200	-28.785500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.956800	-28.898800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.866500	-28.900800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793000	-28.527800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792600	-28.527500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793000	-28.527900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.956800	-28.898700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.765000	-28.506600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.881500	-28.533700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.789000	-28.497900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.829400	-28.904900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839900	-28.923300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793400	-28.527600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793500	-28.528500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792000	-28.524600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.790000	-28.525500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.686300	-28.585400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.720400	-28.610100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.721000	-28.609100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.721200	-28.610000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.957700	-28.899400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793200	-28.526900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.840600	-28.924200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.796100	-28.528100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.731500	-28.617700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.795800	-28.528100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.928000	-28.536400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.956600	-28.900700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793200	-28.527700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.797200	-28.529400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.774900	-28.502800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.010400	-28.758400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.004800	-28.757100

BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.783500	-28.499700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.933100	-28.535700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.796000	-28.877700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.566000	-28.577500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.010200	-28.759000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.936900	-28.539000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.924600	-28.540000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.699000	-28.793100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.929200	-28.536300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.643700	-28.556200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.859000	-28.794500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.643400	-28.548700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.746900	-28.835800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.651500	-28.561200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.005100	-28.757500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.743200	-28.832400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744400	-28.833700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.858900	-28.942100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.743500	-28.833100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.790200	-28.877100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.849400	-28.927500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.931700	-28.536700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.747200	-28.836100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.858200	-28.941000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.735100	-28.823500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.851600	-28.791900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.855300	-28.786000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.748100	-28.835800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.849700	-28.928000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.989200	-28.763300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.928900	-28.535700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.783600	-28.499600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.743300	-28.832600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.772100	-28.507500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.603900	-28.565200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.778100	-28.741300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.746400	-28.836800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.918600	-28.903300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.790500	-28.877500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837400	-28.532200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792200	-28.873700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.003200	-28.758000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.795400	-28.877700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.735100	-28.823900

Marchenology	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744500	-28.834400
Month	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.909500	-28.779800
SPACE Lippoc celebra	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.794300	-28.500300
DEC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.783600	-28.499800
PRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.686100	-28.587600
PRO	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.907400	-28.779400
BEC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.957600	-28.900400
Miles Mile	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.700400	-28.795200
BRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.028800	-28.755600
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.752500	-28.839200
88D	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.841400	-28.782000
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.772200	-28.507700
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.999900	-28.759900
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.835900	-28.778200
BKD Leipoa oceidata Maleefowl VU 19-06-19 122,630700 28,561800 BRD Leipoa oceidata Maleefowl VU 19-06-19 122,732600 -28,613100 BRD Leipoa oceidata Maleefowl VU 19-06-19 122,793260 -28,613100 BRD Leipoa oceidata Maleefowl VU 19-06-19 122,99700 -28,535900 BRD Leipoa oceidata Maleefowl VU 19-06-19 122,79700 -28,535900 BRD Leipoa oceidata Maleefowl VU 19-06-19 122,79700 -28,535900 BRD Leipoa oceidata Maleefowl VU 19-06-19 122,836700 -28,705400 BRD Leipoa oceidata Maleefowl VU 19-06-19 122,836700 -28,705400 BRD Leipoa oceidata Maleefowl VU 19-06-19 122,795300 -28,71600 BRD Leipoa oceidata Maleefowl VU 19-06-19 122,735200 -28,876100 BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.855200	-28.936000
BIRD Leipca ceellata Malloefowl VU 19-6-19 122,73860 -28,613100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.838800	-28.531600
BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,981700 -78,761300 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,297700 -28,533900 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,77800 -28,50700 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,77800 -28,50700 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,70900 -28,50700 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,70900 -28,50700 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,70900 -28,76400 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,79000 -28,76400 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,79000 -28,876100 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,79000 -28,83600 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,79000 -28,83600 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,79000 -28,83600 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,27900 -28,83400 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,27900 -28,7400 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,87900 -28,7400 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,83700 -28,7400 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,83700 -28,7400 BIRD Leipoa oceiliata Malleefowl VIU 19-66-19 122,83700 -28,7400 -28,7400 -28,7400 -28,7400 -28,7400 -28,7400 -28,7400 -28,7400 -28,7400 -28,7400 -28,7400 -28,7400 -28,74	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.650700	-28.561800
BIRD Leipoa ocellota Malleefowl VU 19-06-19 122,99700 -28,53900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.723600	-28.613100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,771800 -28,507000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,70900 -28,59200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,79500 -28,59200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,795300 -28,74800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,795300 -28,74800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,795300 -28,876100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,795300 -28,836400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,795300 -28,834600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,79500 -28,837200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,747700 -28,834600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.981700	-28.761300
BIRD Leipoa oceilata Malieefowl VU 19-06-19 122,799900 -28,529200	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.929700	-28.535900
BIRD Leípoa oceilata Malleefowl VU 19-06-19 122,836700 -28,905400 BIRD Leípoa oceilata Malleefowl VU 19-06-19 122,975300 -28,764800 BIRD Leípoa oceilata Malleefowl VU 19-06-19 122,795300 -28,876100 BIRD Leípoa oceilata Malleefowl VU 19-06-19 122,795300 -28,876100 BIRD Leípoa oceilata Malleefowl VU 19-06-19 122,838700 -28,531400 BIRD Leípoa oceilata Malleefowl VU 19-06-19 122,79500 -28,531400 BIRD Leípoa oceilata Malleefowl VU 19-06-19 122,79500 -28,537400 BIRD Leípoa oceilata Malleefowl VU 19-06-19 122,74700 -28,837400 BIRD Leípoa oceilata Malleefowl VU 19-06-19 123,011800 -28,75400 BIRD Leípoa oceilata Malleefowl VU 19-06-19 122,74700 -28,876000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.771800	-28.507000
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,975300 28,764800 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,790400 28,876100 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,790400 28,876100 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,79000 28,836600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,893700 28,531400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,79000 28,877200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,279300 28,535800 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,77700 28,834600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,77700 28,834600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,77700 28,834600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,77700 28,832500 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,774100 28,832500 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,743100 28,832500 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,83700 28,70000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,83700 28,837000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,43100 28,837000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,43700 28,83400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,43700 28,83400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,43700 28,53100 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,44700 28,83400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,44700 28,835700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,44700 28,835700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,44700 28,835700 BIRD Leipoa oce	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.709900	-28.529200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,790400 -28,876100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.836700	-28.905400
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.752300 -28.836600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.975300	-28.764800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.838700 -28.531400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.790400	-28.876100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.795900 -28.877200	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.752300	-28.836600
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,979300 -28,535800	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.838700	-28.531400
BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.747700 -28.834600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.795900	-28.877200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.011800 -28.757400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.929300	-28.535800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,797600 -28,762000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.747700	-28.834600
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.743100 -28.832500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.011800	-28.757400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.853900 -28.790500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837500 -28.780400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.756100 -28.897800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745100 -28.834700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.623500 -28.557200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744700 -28.834600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.840700 -28.531900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.013500 -28.755900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.647800 -28.557700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.647800 -28.557700	BIRD		Malleefowl		19-06-19	122.979600	-28.762000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837500 -28.75900		,			19-06-19		
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.956100 -28.897800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745100 -28.834700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.623500 -28.557200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744700 -28.834600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.840700 -28.531900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.013500 -28.755900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.647800 -28.557700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.647800 -28.557700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.692700 -28.535100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.853900	-28.790500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745100 -28.834700		Leipoa ocellata	Malleefowl	VU	19-06-19	122.837500	-28.780400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.623500 -28.557200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744700 -28.834600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.840700 -28.531900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.013500 -28.755900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.647800 -28.557700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.692700 -28.535100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.956100	-28.897800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744700 -28.834600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.840700 -28.531900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.013500 -28.755900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.647800 -28.557700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.692700 -28.535100		Leipoa ocellata	Malleefowl		19-06-19		
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.840700 -28.531900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.013500 -28.755900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.647800 -28.557700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.692700 -28.535100		-					
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.013500 -28.755900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.647800 -28.557700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.692700 -28.535100		-					
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.647800 -28.557700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.692700 -28.535100		-					
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.692700 -28.535100							
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.003800 -28.761400		-					
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.003800	-28.761400

BSD Lisbout unerwhole Volumerical VII 19-66 9 122,835000 28,0000 BSD Lisbout unerwhole Volumerical VII 19-66 9 122,83500 28,85400 BSD Lisbout unerwhole VII 19-66 9 122,74100 28,85800 BFD Lisbout onerwhole Molecular VII 19-66 9 122,75100 28,55000 BFD Lisbout onerwhole Molecular VII 19-66 9 122,85900 28,53000 BFD Lisbout onerwhole Molecular VII 19-66 9 122,85900 28,53100 BFD Lisbout onerwhole Molecular VII 19-66 9 122,85900 28,53100 BFD Lisbout onerwhole Allenders onerwhole Molecular VII 19-66 9 122,85900 28,53100 BFD Lisbout onerwhole Molecular VII 19-66 9 122,85900 28,52000 BFD Lisbout onerwhole Molecular VII 19-66 9 122,85900 28,52000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.929400	-28.536000
Month	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.835000	-28.902900
SEC Lepon centron	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744200	-28.834300
DEC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.751400	-28.838500
PRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.835000	-28.530700
PRED	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.835900	-28.531000
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.015500	-28.755000
REP	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.651900	-28.551200
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.752300	-28.837400
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.823800	-28.776000
88D	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745400	-28.835200
SRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837300	-28.532000
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.910100	-28.778000
BRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837500	-28.532000
BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,923300 -28,903000 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,772300 -28,504400 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,772300 -28,504400 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,877300 -28,898900 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,877300 -28,898900 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,877300 -28,898900 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,879300 -28,80000 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,999300 -28,70000 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,799800 -28,50000 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,784000 -28,513000 <tr< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.881000</td><td>-28.780500</td></tr<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.881000	-28.780500
BIRD Leipoa ocellata Malicefowl VU 19-6-19 122,77300 -28,504400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.850200	-28.786500
BIRD Leipoa oceiliata Malleefowl VIU 19-06-19 123,001000 -28,759800 BIRD Leipoa oceiliata Molleefowl VIU 19-06-19 122,377500 -28,898900 BIRD Leipoa oceiliata Molleefowl VIU 19-06-19 122,377500 -28,898900 -28,827700 -28,898900 -28,87700 -28,877500 -28,898900 -28,87700 -28,877500 -28,87	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.923300	-28.903000
BIRD Leipoa ocellota Malleefowl VU 19-06-19 122,877500 -28,89900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.772300	-28.504400
BIRD Lejopa ocellata Malleefowl VU 19-06-19 122,737700 -28,827700 BIRD Lejopa ocellata Malleefowl VU 19-06-19 122,865800 -28,801400 BIRD Lejopa ocellata Malleefowl VU 19-06-19 122,898200 -28,70300 BIRD Lejopa ocellata Malleefowl VU 19-06-19 122,793800 -28,500700 BIRD Lejopa ocellata Malleefowl VU 19-06-19 122,789800 -28,500700 BIRD Lejopa ocellata Malleefowl VU 19-06-19 122,889000 -28,59000 BIRD Lejopa ocellata Malleefowl VU 19-06-19 122,789100 -28,899500 BIRD Lejopa ocellata Malleefowl VU 19-06-19 122,789100 -28,899500 BIRD Lejopa ocellata Malleefowl VU 19-06-19 122,789100 -28,831300 BIRD Lejopa ocellata Malleefowl VU 19-06-19 122,74700 -28,85100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.001000	-28.759800
BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.85800 -28.801400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.877500	-28.898900
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,992500 -28,760300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,793800 -28,500700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,688700 -28,695000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,688700 -28,59400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,783100 -28,499500 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,283100 -28,499500 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,283700 -28,531300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,746100 -28,531300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,744100 -28,833600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,839100 -28,529400 <	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.737700	-28.827700
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,793800 -28,500700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,688700 -28,695000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,688700 -28,584800 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,783100 -28,584800 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,83100 -28,531300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,839400 -28,531300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,776700 -28,851100 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,776700 -28,853600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,776700 -28,853600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,776700 -28,853600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,839200 -28,529400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,839200 -28,529400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,839100 -28,531300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,83100 -28,531300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,93100 -28,531300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,93100 -28,531300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,93100 -28,752800 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,74500 -28,836800 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,637400 -28,691200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,833700 -28,691200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,74800 -28,691200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,74400 -28,691200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 1	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.865800	-28.801400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.688700 -28.695000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.992500	-28.760300
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.682000 -28.584600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793800	-28.500700
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.783100 -28.499500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.688700	-28.695000
BIRD Leipoa ocellata Molleefowl VU 19-06-19 122.839400 -28.531300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.776700 -28.861100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.776700 -28.758000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.741100 -28.833600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.839200 -28.529400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.839200 -28.876000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.791600 -28.87600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.791600 -28.774500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.934100 -28.774500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745500 -28.833600 <	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.682000	-28.584800
BIRD Leipoa oceliata Malleefowl VU 19-06-19 122,776700 -28.861100 BIRD Leipoa oceliata Malleefowl VU 19-06-19 123,005200 -28.758000 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122,744100 -28.833600 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122,89200 -28.876000 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122,791600 -28.876000 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122,839100 -28.876000 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122,839100 -28.774500 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122,934100 -28.774500 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122,746500 -28.836600 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122,74500 -28.757400 <t< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.783100</td><td>-28.499500</td></t<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.783100	-28.499500
BIRD Leipa acellata Malleefawl VU 19-06-19 123.005200 -28.758000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839400	-28.531300
BIRD Leipoa ocellata Malleefowl YU 19-06-19 122,744100 -28,833600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.776700	-28.861100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.839200 -28.529400		Leipoa ocellata	Malleefowl	VU	19-06-19	123.005200	-28.758000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.791600 -28.876000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744100	-28.833600
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.839100 -28.531300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839200	-28.529400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.934100 -28.774500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.791600	-28.876000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.028300 -28.752800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.746500 -28.836800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.011500 -28.757400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.637400 -28.691200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.833700 -28.901600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.728800 -28.613500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744100 -28.833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744100 -28.833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793700 -28.875500		Leipoa ocellata	Malleefowl		19-06-19		
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.746500 -28.836800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.011500 -28.757400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.637400 -28.691200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.833700 -28.901600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.728800 -28.613500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744100 -28.833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793700 -28.875500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.934100	-28.774500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.011500 -28.757400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.637400 -28.691200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.833700 -28.901600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.728800 -28.613500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744100 -28.833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793700 -28.875500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.028300	-28.752800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.637400 -28.691200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.833700 -28.901600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.728800 -28.613500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744100 -28.833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793700 -28.875500		Leipoa ocellata	Malleefowl		19-06-19	122.746500	-28.836800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.833700 -28.901600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.728800 -28.613500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744100 -28.833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793700 -28.875500		·					
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.728800 -28.613500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744100 -28.833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793700 -28.875500							
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744100 -28.833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793700 -28.875500		1					
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793700 -28.875500							
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744100	-28.833700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.028900 -28.753400		1					
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.028900	-28.753400

BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.924500	-28.539700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.953100	-28.768900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.762000	-28.847500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.857100	-28.786100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.901200	-28.776400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.844100	-28.786300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.906900	-28.775400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.780900	-28.528100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.857600	-28.784600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.773700	-28.503300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.735300	-28.823800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.836500	-28.529400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837100	-28.532400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.646300	-28.691200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.791200	-28.747400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.748100	-28.835000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.733700	-28.824600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744300	-28.836600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744800	-28.835900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.727800	-28.614100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.798000	-28.497400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.695400	-28.683200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.772400	-28.507800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.747000	-28.836700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.930700	-28.537100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.651100	-28.562000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837600	-28.531600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.952200	-28.769500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.733600	-28.824800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.840900	-28.531900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.752300	-28.836300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744700	-28.833300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.736100	-28.821200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.662200	-28.566300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.747700	-28.836000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.699700	-28.694500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.695700	-28.684000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.884200	-28.966700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744300	-28.834400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839300	-28.531400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.648300	-28.551300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.942700	-28.897000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.011700	-28.757500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.657400	-28.564800
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980 Jeann Controlling Missellowing 91 19-91-71 129-97900 429-75800 980 Jeanne Controlling Missellowing 91 199-91 129-97900 429-75800 980 Jeanne Controlling Missellowing 91 199-91 129-97900 428-3100 980 Jeanne Controlling Missellowing 91 19-91-91 129-8300 428-3100 980 Jeanne Controlling Missellowing 91 19-91-91 129-84-900 28-87-100 980 Jeanne Controlling Missellowing 91 19-91-91 129-84-900 28-87-800 980 Jeanne Controlling Missellowing 91 99-91-91 129-85-90 28-87-800 980 Jeanne Controlling Missellowing Missellowing 91 19-91-91 122-85-900 28-87-800 980 Jeanne Controlling Missellowing Missellowing 91 19-91-91 122-85-900 28-87-800 980 Jeanne Controlling Missellowing 91 19-91-	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793200	-28.877200
BPD Lepon cerebrish Mollenform VU 19-0-19 12-25-2500 25-31500 BDD Lippos cerebrish Mollenform VU 19-0-19 12-25-2500 25-25-200 BDD Lippos cerebrish Mollenform VU 19-0-19 12-25-200 28-5000 BDD Lepon cerebrish Mollenform VU 19-0-19 12-25-200 28-5000 BRD Lepon cerebrish Mollenform VU 19-0-19 12-25-200 28-5000 BRD Lepon cerebrish Mollenform VU 19-0-19 12-25-200 28-5000 BRD Lepon cerebrish Mollenform VU 19-0-19 12-25-2000 28-5000 BRD Lepon cerebrish Mollenform VU 19-0-19 12-25-2600 28-5000 BRD Lepon cerebrish Mollenform VU 19-0-19 12-25-2600 28-5000 BRD Lepon cerebrish Mollenform VU 19-0-19 12-25-2600 28-5000 BRD Lepon cere	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.970900	-28.763500
BDC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.949800	-28.768500
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.865300	-28.531300
BOTO CARRON CONCINTO Molectoria Molectoria VI 196-191 222,2000 28,66070 BITO Lapoda Coelistica Molectoria VI 196-191 122,315700 22,76100 BITO Lapoda Coelistica Molectoria VI 196-191 122,25700 22,78100 BITO Lapoda Coelistica Molectoria VI 196-191 122,27500 22,78100 BITO Lapoda Coelistica Molectoria VI 196-191 122,87000 28,79100 BITO Lapoda Coelistica Molectoria Molectoria VI 196-191 122,88200 28,7800 BITO Lapoda Coelistica Molectoria Molectoria VI 196-191 122,28200 28,3800 BITO Lapoda Coelistica Molectoria Molectoria VI 196-191 122,28200 28,3800 BITO Lapoda Coelistica Molectoria Molectoria VI 196-191 122,28200 28,3800 BITO Lapoda Coelistica Molectoria <td>BIRD</td> <td>Leipoa ocellata</td> <td>Malleefowl</td> <td>VU</td> <td>19-06-19</td> <td>122.736000</td> <td>-28.713500</td>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.736000	-28.713500
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.661900	-28.693000
6KD Absolute celebra Molecoloval Molecoloval VU 19-0-19 122-89-00 -22-86-00 BRD Lapota celebra Molecoloval VU 17-0-19 122-86-20 -28-81/20 BRD Lapota celebra Molecoloval VU 17-0-19 122-86-20 -28-81/20 BRD Lapota celebra Molecoloval VU 17-0-19 122-86-20 -28-81/20 BRD Lapota celebra Molecoloval VU 19-0-19 19-0-19 12-28-90 -28-91/20 BRD Lapota celebra Molecoloval VU 19-0-19	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.702800	-28.686700
BMD Albeit to cellutor Moliente VI 194-19* 122.24/00 28.28/00 BRD Zibica celluto Moliente VI 196-19* 122.24/00 28.28/00 BRD Zibica celluto Moliente VI 196-19* 122.88/00 28.2000 BRD Zibica celluto Moliente VI 196-19* 192.88/00 28.3000 BRD Zibica celluto Moliente VI 196-19* 192.28/10 28.3000 BRD Zibica celluto Moliente Moliente VI 196-19* 192.27/30 28.2300 BRD Zibica celluto Moliente VI 196-19* 192.27/30 28.2300 BRD Zibica celluto Moliente VI 196-19* 192.27/30 28.2300 BRD Zibica celluto Moliente VI 196-19* 192.27/30 28.5300 BRD Zibica celluto Moliente VI 196-19* 192.24/30 28.2300 BRD Zibica celluto	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.015700	-28.757200
BRC Légico celeiro Molicefowi Molice fowi VU 19-61-76 212-84920 28-8720 BRC Légico celeiro Molice fowi VU 19-66-77 122-84930 28-87400 BRC Légico celeiro Molice fowi VU 19-66-77 122-85100 28-3500 BRC Légico celeiro Molice fowi VU 19-66-77 122-85100 28-27100 BRC Légico celeiro Molice fowi VU 19-66-77 29-28500 28-8300 BRC Légico celeiro Molice fowi VU 19-66-79 122-85500 28-8300 BRC Légico celeiro Molice fowi VU 19-66-79 122-85500 28-8300 BRC Légico celeiro Molice fowi VU 19-66-79 122-8500 28-8300 BRC Légico celeiro Molice fowi VU 19-67-79 122-8500 28-3550 BRC Légico celeiro Molice fowi VU 19-67-79 122-8500 28-3550 BRC <td>BIRD</td> <td>Leipoa ocellata</td> <td>Malleefowl</td> <td>VU</td> <td>19-06-19</td> <td>122.845900</td> <td>-28.786100</td>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.845900	-28.786100
BSD Explored celluto Molacolowi VI 19-6-19 122-8570 22.87400 BRD Lejoco celluto Molacolowi VI 19-6-19 122-85100 28.7300 BRD Lejoco celluto Molacolowi VI 19-6-19 122-85100 28.7300 BRD Lejoco celluto Molacolowi VI 19-6-19 122-8500 28.73000 BRD Lejoco celluto Molacolowi VI 19-6-19 192-4490 28.73000 BRD Lejoco celluto Molacolowi VI 19-6-19 192-3500 28.5300 BRD Lejoco celluto Molacolowi VI 19-6-19 192-3500 28.53500 BRD Lejoco celluto Molacolowi VI 19-6-19 192-3500 28.53500 BRD Lejoco celluto Molacolowi VI 19-6-19 192-300 28.75500 28.75500 BRD Lejoco celluto Molacolowi VI 19-6-19 192-3000 28.75500 28.75500 28.75500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.787000	-28.870500
BRO Colpos oceilato Molledrowi VU 19-0-19 12-25-500 28-35000 BRO Léporo oceilato Molledrowi VU 19-0-19 12-25-8100 28-3700 BRO Léporo oceilato Molledrowi VU 19-0-19 12-27-4300 28-3700 BRO Léporo oceilato Molledrowi VU 19-0-19 12-27-4300 28-3800 BRO Léporo oceilato Molledrowi VU 19-0-19 12-27-3300 28-33700 BRO Léporo oceilato Molledrowi VU 19-0-19 12-23-3000 28-23-3000 BRO Léporo oceilato Molledrowi VU 19-0-19 12-25-8000 28-23-3000 BRO Léporo oceilato Molledrowi VU 19-0-19 12-25-8000 28-23-3000 BRO Léporo oceilato Molledrowi VU 19-0-19 12-25-8000 28-27-300 BRO Léporo oceilato Molledrowi VU 19-0-19 12-25-8000 28-27-300 28-27-300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.646200	-28.691200
BND Colpon oceilator Moleeford VU 19.06 (1) 12.28810(1) 28.94210 BND Lápono caelator Molaeford VU 19.06 (1) 12.979300 28.73000 BND Lópico caelator Molaeford VU 19.06 (1) 122.74300 28.8300 BND Lópico aceitar Molaeford VU 19.06 (1) 122.83500 28.8370 BND Lópico aceitar Molaeford VU 19.06 (1) 122.83500 28.7550 BND Lópico aceitar Molaeford VU 19.06 (1) 122.64500 28.7550 BND Lápico aceitar Molaeford VU 19.06 (1) 122.64500 28.7550 BND Lápico aceitar Molaeford VU 19.06 (1) 122.64500 28.7550 BND Lápico aceitar Molaeford VU 19.06 (1) 122.74300 28.7510 BND Lápico aceitar Molaeford VU 19.06 (1) 122.74300 28.5340 BND Lápico aceitar	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.849300	-28.794000
BRD Calpora cealatra Molectown VI 196-19** 122973200 28,5000 BRD Calpora cealatra Molectown VI 196-19** 122244300 28,53000 BRD Calpora cealatra Molectown VI 196-19** 122,83500 28,33070 BRD Lépono cealatra Molectown VI 196-19** 122,83500 28,45500 BRD Lépono cealatra Molectown VI 196-19** 122,64500 28,55500 BRD Lépono cealatra Molectown VI 196-19** 122,64500 28,55500 BRD Lépono cealatra Molectown VI 196-19** 122,71000 28,75500 BRD Lépono cealatra Molectown VI 196-19** 122,71000 28,75100 BRD Lépono cealatra Molectown VI 196-19** 122,77000 28,25400 BRD Lépono cealatra Molectown VI 196-19** 122,77000 28,35300 BRD Lépono cea	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.856100	-28.533000
BIRD Leipon cellota Molientovi VU 19-06-19 12274300 28,834000 BIRD Lejono neclota Molientovi VU 19-06-19 122,83500 28,0000 BIRD Lejono cellota Molientovi VU 19-06-19 122,33500 28,1440 BIRD Lejono cellota Molientovi VU 19-06-19 122,04500 28,75500 BIRD Lejono cellota Molientovi VU 19-06-19 122,04500 28,75500 BIRD Lejono cellota Molientovi VU 19-06-19 122,04500 28,75500 BIRD Lejono cellota Molientovi VU 19-06-19 122,27900 28,77510 BIRD Lejono cellota Molientovi VU 19-06-19 122,77900 28,77610 BIRD Lejono cellota Molientovi VU 19-06-19 122,77900 28,35600 BIRD Lejono cellota Molientovi VU 19-06-19 122,77900 28,35900 BIRD Lej	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.858100	-28.942100
BIRD Lépido celebra Molleelow VI 19-61-9 1228/500 28,30/00 BIRD Lépido celebra Molleelow VI 19-66-19 122,33500 28,61900 BIRD Lépido celebra Molleelow VI 19-66-19 122,35500 28,75500 BIRD Lépido celebra Molleelow VI 19-66-19 122,65500 28,55500 BIRD Lépido celebra Molleelow VI 19-66-19 122,65500 28,7510 BIRD Lépido celebra Molleelow VI 19-66-19 122,9000 28,7510 BIRD Lépido celebra Molleelow VI 19-66-19 122,9000 28,7540 BIRD Lépido celebra Molleelow VI 19-66-19 122,9000 28,8750 BIRD Lépido celebra Molleelow VI 19-66-19 122,8300 28,3300 BIRD Lépido celebra Molleelow VI 19-61-19 122,8500 28,3500 BIRD Lépido celebra	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.993200	-28.763000
BIRD Leipod celetró Malienform VU 19.61 P 12.78830 28.61940 BIRD Leipod celetró Mollenform VU 19.61-P 122.05600 -28.755500 BIRD Leipod celetró Mollenform VU 19.61-P 122.65600 -28.755500 BIRD Leipod celetró Mollenform VU 19.61-P 122.6900 -28.75500 BIRD Leipod celetró Mollenform VU 19.61-P 122.97030 -28.7500 BIRD Leipod celetró Mollenform VU 19.61-P 122.97030 -28.75100 BIRD Leipod celetró Mollenform VU 19.61-P 122.79030 28.27400 BIRD Leipod celetró Mollenform VU 19.61-P 122.77000 28.35400 BIRD Leipod celetró Mollenform VU 19.61-P 122.79000 -28.35100 BIRD Leipod celetró Mollenform VU 19.61-P 122.7900 -28.35100 BIRD Leipod	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744300	-28.834000
BIRD Lejora oceilatra Malleefoul VU 19-06-19 123.06400 -28.755500 BIRD Lejora oceilatra Molleefoul VU 19-06-19 122.65400 28.55500 BIRD Lejora oceilatra Molleefoul VU 19-06-19 122.65400 28.50500 BIRD Lejora oceilatra Molleefoul VU 19-06-19 122.97300 28.77510 BIRD Lejora oceilatra Molleefoul VU 19-06-19 122.97100 28.77540 BIRD Lejora oceilatra Molleefoul VU 19-06-19 122.77000 -28.75400 BIRD Lejora oceilatra Molleefoul VU 19-06-19 122.74000 -28.35800 BIRD Lejora oceilatra Molleefoul VU 19-06-19 122.84000 28.38300 BIRD Lejora oceilatra Molleefoul VU 19-06-19 122.92000 28.38500 BIRD Lejora oceilatra Molleefoul VU 19-06-19 122.78700 28.98500 <td< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.837500</td><td>-28.530700</td></td<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837500	-28.530700
BRD Lépod oceilido Malleefowl VU 19-61-19 122.64500 28.6550 BRD Lépod oceilido Malleefowl VU 19-61-19 122.86600 28.00000 BRD Lépod oceilido Malleefowl VU 19-61-19 122.971800 28.775010 BRD Lépod oceilido Malleefowl VU 19-61-19 122.971800 28.77540 BRD Lépod oceilido Malleefowl VU 19-61-19 122.77800 28.7540 BRD Lépod oceilido Malleefowl VU 19-61-19 122.77900 28.52400 BRD Lépod oceilido Malleefowl VU 19-61-19 122.83400 28.53100 BRD Lépod oceilido Malleefowl VU 19-61-19 122.83400 28.93500 BRD Lépod oceilido Malleefowl VU 19-61-19 122.7900 28.69850 BRD Lépod oceilido Malleefowl VU 19-61-19 122.79300 28.69350 BRD Lépod oceili	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.738500	-28.619400
BIRD Leipoa oceilara Molleefowl VU 19-66-19 122,86000 -28,70000 BIRD Leipoa oceilara Molleefowl VU 19-66-19 122,97300 28,775100 BIRD Leipoa oceilara Molleefowl VU 19-66-19 122,971800 28,75400 BIRD Leipoa oceilara Molleefowl VU 19-66-19 122,77000 -28,52400 BIRD Leipoa oceilara Molleefowl VU 19-66-19 122,77000 -28,52400 BIRD Leipoa oceilara Molleefowl VU 19-66-19 122,834300 -28,53400 BIRD Leipoa oceilara Molleefowl VU 19-66-19 122,834300 -28,53400 BIRD Leipoa oceilara Molleefowl VU 19-66-19 122,78900 -28,53400 BIRD Leipoa oceilara Molleefowl VU 19-66-19 122,78900 -28,53500 BIRD Leipoa oceilara Molleefowl VU 19-66-19 122,78600 28,53500 BI	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.006400	-28.755500
BIRD Leipca oceilata Malieefowl VU 19-06-19 122,07300 28,77510 BIRD Leipca oceilata Malleefowl VU 19-06-19 122,07800 -28,77510 BIRD Leipca oceilata Malleefowl VU 19-06-19 122,07900 28,52400 BIRD Leipca oceilata Malleefowl VU 19-06-19 122,74700 -28,33590 BIRD Leipca oceilata Malleefowl VU 19-06-19 122,84300 -28,33590 BIRD Leipca oceilata Malleefowl VU 19-06-19 122,8000 -28,33500 BIRD Leipca oceilata Malleefowl VU 19-06-19 122,79700 -28,59850 BIRD Leipca oceilata Malleefowl VU 19-06-19 122,79700 -28,698500 BIRD Leipca oceilata Malleefowl VU 19-06-19 122,79700 -28,69350 BIRD Leipca oceilata Malleefowl VU 19-06-19 122,74600 -28,59300 BIRD<	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.654500	-28.565500
BIRD Lejoa ocelidra Malleefowl VU 19-06-19 122,91800 28,77540 BIRD Lejoa ocelidra Malleefowl VU 19-06-19 122,70900 -28,52400 BIRD Lejoa ocelidra Malleefowl VU 19-06-19 122,70900 -28,53700 BIRD Lejoa ocelidra Malleefowl VU 19-06-19 122,83400 -28,53700 BIRD Lejoa ocelidra Malleefowl VU 19-06-19 122,83400 -28,37460 BIRD Lejoa ocelidra Malleefowl VU 19-06-19 122,7000 -28,37460 BIRD Lejoa ocelidra Malleefowl VU 19-06-19 122,7000 -28,87800 BIRD Lejoa ocelidra Malleefowl VU 19-06-19 122,70800 -28,87800 BIRD Lejoa ocelidra Malleefowl VU 19-06-19 122,77800 -28,53000 BIRD Lejoa ocelidra Malleefowl VU 19-06-19 122,77800 -28,53000 BIRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.866000	-28.900000
BIRD Leipoa ocellafa Malleefoul VU 19-06-19 122,709600 -28.254600 BIRD Leipoa ocellafa Malleefoul VU 19-06-19 122,747000 -28.835900 BIRD Leipoa ocellafa Malleefoul VU 19-06-19 122,834300 -28.53100 BIRD Leipoa ocellafa Malleefoul VU 19-06-19 122,84200 -28.934600 BIRD Leipoa ocellafa Malleefoul VU 19-06-19 122,9000 -28.87850 BIRD Leipoa ocellafa Malleefoul VU 19-06-19 122,7000 -28.87850 BIRD Leipoa ocellafa Malleefoul VU 19-06-19 122,7000 -28.95070 BIRD Leipoa ocellafa Malleefoul VU 19-06-19 122,70900 -28.95000 BIRD Leipoa ocellafa Malleefoul VU 19-06-19 122,77600 -28.53000 BIRD Leipoa ocellafa Malleefoul VU 19-06-19 122,77600 -28.83700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.907300	-28.775100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.74700 -28.85900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.834300 -28.531200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.854200 -28.934600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.90000 -28.93800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793700 -28.693500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.79800 -28.693500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.78800 -28.693500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.78600 -28.693500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.77600 -28.59200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.778000 -28.87700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.911800	-28.775400
BIRD Léjoq ocelida Mallefowl VU 19-06-19 122.83400 -28.531200 BIRD Léjoq ocelida Mallefowl VU 19-06-19 122.85400 -28.93460 BIRD Léjoq ocelida Mallefowl VU 19-06-19 122.892000 -28.89580 BIRD Léjoq ocelida Mallefowl VU 19-06-19 122.793700 -28.89580 BIRD Léjoq ocelida Mallefowl VU 19-06-19 122.79300 -28.69300 BIRD Léjoq ocelida Mallefowl VU 19-06-19 122.79300 -28.69300 BIRD Léjoq ocelida Mallefowl VU 19-06-19 122.79800 -28.93000 BIRD Léjoq ocelida Mallefowl VU 19-06-19 122.77600 -28.53000 BIRD Léjoq ocelida Mallefowl VU 19-06-19 122.77600 -28.9700 BIRD Léjoq ocelida Mallefowl VU 19-06-19 122.79100 -28.83700 BIRD Léjoq oce	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.709600	-28.526400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.854200 -28.934600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.920000 -28.898500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793700 -28.500700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.78900 -28.500700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.88800 -28.94300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.678400 -28.53000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.776600 -28.530200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.97600 -28.530200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.77500 -28.83700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.77300 -28.53700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.747000	-28.835900
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,92000 -28,89500 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,79370 -28,500700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,70800 -28,500700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,70800 -28,53300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,57800 -28,53300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,77600 -28,50200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,77600 -28,50200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,76700 -28,50200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,74300 -28,83700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,80100 -28,53700 B	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.834300	-28.531200
BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.793700 -28.500700 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.708900 -28.693500 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.858800 -28.743000 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.678400 -28.53200 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.678400 -28.50200 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.78100 -28.50200 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.957100 -28.50200 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.77300 -28.87700 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.80200 -28.527600 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.74300 -28.527600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.854200	-28.934600
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,708900 -28,693500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,678400 -28,53800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,678400 -28,53800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,776600 -28,50220 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,776600 -28,50220 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,77600 -28,90700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,78000 -28,87700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,74300 -28,83700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,74300 -28,53700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,74300 -28,533100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.920000	-28.898500
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.858800 -28.43000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.678400 -28.538000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.776600 -28.50220 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.776600 -28.900700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.798000 -28.879700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.747300 -28.837700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.809200 -28.527600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.809200 -28.53700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.744300 -28.533100 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.807200 -28.533100 <tr< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.793700</td><td>-28.500700</td></tr<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793700	-28.500700
BIRD Lépod ocellata Mallefowl VU 19-06-19 122.678400 28.538000 BIRD Lépod ocellata Mallefowl VU 19-06-19 122.776600 -28.502200 BIRD Lépod ocellata Mallefowl VU 19-06-19 122.957100 -28.90700 BIRD Lépod ocellata Mallefowl VU 19-06-19 122.778000 -28.87700 BIRD Lépod ocellata Mallefowl VU 19-06-19 122.747300 -28.83700 BIRD Lépod ocellata Mallefowl VU 19-06-19 122.809200 -28.527600 BIRD Lépod ocellata Mallefowl VU 19-06-19 122.809200 -28.53700 BIRD Lépod ocellata Mallefowl VU 19-06-19 122.744300 -28.53700 BIRD Lépod ocellata Mallefowl VU 19-06-19 122.83300 -28.532300 BIRD Lépod ocellata Mallefowl VU 19-06-19 122.644200 -28.533100 BIRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.708900	-28.693500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,776600 -28,502200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,795100 -28,900700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,798000 -28,879700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,747300 -28,833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,747300 -28,537600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,809200 -28,537700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,744300 -28,537700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,837300 -28,533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,64200 -28,533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,85300 -28,533100 <t< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.858800</td><td>-28.943000</td></t<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.858800	-28.943000
BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.957100 -28.900700 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.798000 -28.837700 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.747300 -28.833700 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.809200 -28.527600 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.936100 -28.537700 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.744300 -28.533100 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.837300 -28.532300 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.664200 -28.53700 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.83500 -28.533100 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.83500 -28.533100 <tr< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.678400</td><td>-28.538000</td></tr<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.678400	-28.538000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.798000 -28.879700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.747300 -28.833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.809200 -28.527600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.936100 -28.537700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744300 -28.833100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837300 -28.532300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.664200 -28.534700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.83400 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835400 -28.533100 <td></td> <td>Leipoa ocellata</td> <td>Malleefowl</td> <td>VU</td> <td>19-06-19</td> <td>122.776600</td> <td>-28.502200</td>		Leipoa ocellata	Malleefowl	VU	19-06-19	122.776600	-28.502200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.747300 -28.833700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.809200 -28.527600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.936100 -28.537700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744300 -28.833100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837300 -28.532300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.664200 -28.547000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.853400 -28.533100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.957100	-28.900700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.809200 -28.527600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.936100 -28.537700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744300 -28.833100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837300 -28.532300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.664200 -28.547000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.83400 -28.533100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.798000	-28.879700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.936100 -28.537700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744300 -28.833100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837300 -28.532300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.664200 -28.534700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.747300	-28.833700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.744300 -28.833100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837300 -28.532300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.664200 -28.547000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.853400 -28.934000		Leipoa ocellata	Malleefowl		19-06-19		
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837300 -28.532300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.664200 -28.547000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.853400 -28.934000							
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.853400 -28.934000							
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836500 -28.533100 BIRD Leipoa ocellata Wu 19-06-19 122.853400 -28.934000							
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.853400 -28.934000		· · ·					
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BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.840600 -28.531900							
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.840600	-28.531900

BBD dejou cucleiro Mulerloy VI 9 60 70 20 235340 25,550 cm BBD dejou cucleiro Michaelo VI 19 60 10 12 23570 25,550 cm BBD dejou cucleiro Michaelo VI 19 60 12 12 23570 25,550 cm BBD dejou cucleiro Michaelo VI 19 60 12 12 2450 25,550 cm BDD dejou cucleiro Michaelo VI 19 60 12 12 750 Cm 22 2350 Cm BDD dejou cucleiro Michaelo VI 19 60 12 12 750 Cm 22 2350 Cm BDD dejou cucleiro Michaelo VI 19 60 12 12 750 Cm 25 25 25 25 25 25 25 25 25 25 25 25 25 2	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744600	-28.834600
Month Mont	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.933400	-28.536000
SPD Lepon coentro Molecom VI 19-6-10 125-4800 287-000 SRD Libodo coentro Molecom VI 19-6-10 125-4800 28-2800 SRD Libodo coentro Molecom VI 19-6-10 125-4200 28-3000 SRD Lepon coentro Molecom VI 19-6-10 122-200 28-3000 SRD Lepon coentro Molecom VI 19-6-10 122-3300 28-3010 SRD Lepon coentro Molecom VI 19-6-10 122-3300 28-3000 SRD Lepon coentro Molecom VI 19-6-10 122-3300 28-3000 SRD Lepon coentro Molecom VI 19-6-	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839500	-28.531500
SIDE Legon controlation Modername VIL 19-06-19 122-25/250 28.85/250 SIRD Lebood cerlotro Molechord VID 19-06-19 122-25/250 28.55/250 SIRD Lebood cerlotro Molechord VID 19-06-19 122-25/250 28.55/250 SIRD Lebood cerlotro Molechord VID 19-06-19 122-25/250 28.55/250 SIRD Lebood cerlotro Molechord VID 19-06-19 122-25/250 28.55/150 SIRD Lebood cerlotro Molechord VID 19-06-19 122-25/250 28.55/150 SIRD Lebood cerlotro Molechord VID 19-06-19 122-25/250 28.55/250 SIRD Lebood cerlotro Molechord VID 19-06-19 122-25/250 28.25/250 SIRD Lebood cerlotro Molechord VID 19-06-19 122-25/250 28.25/250 SIRD Lebood cerlotro Molechord VID 19-06-19 122-25/250 28.25/250	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837700	-28.531600
BRD Jenos oceratro Molescord Molescord VU 1964-19 122,87400 28,5000 BDC Jenos oceratro Molescord VU 1964-19 122,24300 28,5000 BDC Jenos oceratro Molescord VU 1964-19 122,6100 28,5100 BIG Jenos oceratro Molescord Molescord VU 1964-19 122,6100 -28,5100 BIG Jenos oceratro Molescord VU 1964-19 122,7000 -28,5100 BIG Jenos oceratro Molescord VU 1964-19 122,7000 -28,5300 BIG Jenos oceratro Molescord VU 1964-19 122,5000 -28,5300 BIG Jenos oceratro Molescord VU 1964-19 122,5000 -28,5300 BIG Jenos oceratro Molescord VU 1964-19 122,5000 -28,9300 BIG Jenos oceratro Molescord Molescord VU 1964-19 122,5000 -28,9300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.846800	-28.789600
BRD Improvimentation Molecular Medication Molecular Medication VII 19.61-19 127.27900 95.5000 85D Liciosa cerlatria Molecular VII 19.61-19 122.61300 28.51400 85D Liciosa cerlatria Molecular VII 19.61-19 122.81300 28.51400 87D Liciosa cerlatria Molecular VII 19.61-19 122.81300 -28.51700 87D Liciosa cerlatria Molecular VII 19.61-19 123.01600 -28.51700 87D Liciosa cerlatria Molecular VII 19.61-19 123.01000 -28.53000 87D Liciosa cerlatria Molecular VII 19.61-19 122.251300 -28.75000 87D Liciosa cerlatria Molecular VII 19.61-19 122.251300 -28.77000 87D Liciosa cerlatria Molecular VII 19.61-19 122.251300 -28.77000 87D Liciosa cerlatria Molecular VII 19.61-19 122.25700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.743500	-28.832600
BKD depon oceletro Mollodowil VI 19-06-19 12-26-130 -26-36-140 RRD Japon oceletro Mollodowil VI 19-06-19 122-5330 -26-53710 RRD Zebon oceletro Mollodowil VI 19-06-19 122-79-200 -28-53710 BKD Zebon oceletro Mollodowil VI 19-06-19 122-79-200 -28-53710 BKD Zebon oceletro Mollodowil VI 19-06-19 19-05-19 122-79-200 -28-53000 BKD Zebon oceletro Mollodowil VI 19-06-19 122-79-300 -28-70000 BKD Zebon oceletro Mollodowil VI 19-06-19 122-75-300 -28-70000 BKD Zebon oceletro Mollodowil VI 19-06-19 122-75-300 -28-70000 BKD Zebon oceletro Mollodowil VI 19-06-19 122-75-7000 -28-75-700 BKD Zebon oceletro Mollodowil VI 19-06-19 122-75-700 -28-75-700 <tr< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.837400</td><td>-28.530400</td></tr<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837400	-28.530400
BKD Lópico aceilarão Molledowl VU 19-6-19 12-25-130 -25-5490 BKD Lópico aceilarão Molledowl VU 19-6-19 122-25-300 -25-54910 BKD Lépaco aceilarão Molledowl VU 19-6-19 122-07-400 -28-77000 BKD Lépaco aceilarão Molledowl VU 19-6-19 122-09-100 -28-77000 BKD Lépaco aceilarão Molledowl VU 19-6-19 122-91-300 -28-77000 BKD Lépaco aceilarão Molledowl VU 19-6-19 122-93-300 -28-7000 BKD Lépaco aceilarão Molledowl VU 19-6-19 122-25-300 -28-9070 BKD Lépaco aceilarão Molledowl VU 19-6-19 122-25-300 -28-9370 BKD Lépaco aceilarão Molledowl VU 19-6-19 122-25-800 -28-8330 BKD Lépaco aceilarão Molledowl VU 19-6-19 122-25-800 -28-8340 BKD <t< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.792800</td><td>-28.500200</td></t<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792800	-28.500200
BFC Lipico celluto Adolesimal VI 19-64-19 223-230-00 263-3910 BRC Lipico celluto Molecimal VI 19-66-17 192-22-24-00 28-7500 BRC Lipico celluto Molecimal VI 19-66-17 192-22-24-00 28-7500 BRC Lipico celluto Molecimal VI 19-66-17 192-251-00 28-2500 BRC Lipico celluto Molecimal VI 19-66-19 1922-151-00 28-2500 BRC Lipico celluto Molecimal VI 19-64-19 122-23500 28-2500 BRC Lipico celluto Molecimal VI 19-64-19 122-28100 28-2500 BRC Lipico celluto Molecimal VI 19-64-19 122-281700 28-2500 BRC Lipico celluto Molecimal VI 19-61-19 122-281700 28-35700 BRC Lipico celluto Molecimal VI 19-61-19 122-281700 28-381700 BRC Lipico cellut	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.651500	-28.561400
BFD Cópico oceilatro Andiocloride VI 19-61-19 122-2400 28-8550 BRD Lópico oceilatro Mollociford VI 19-64-19 122-64100 28-7500 BRD Lépico oceilatro Mollociford VI 19-64-19 122-81000 28-7500 BRD Lépico oceilatro Mollociford VI 19-64-19 122-81000 28-77000 BRD Lépico oceilatro Mollociford VI 19-64-19 122-81000 28-77000 BRD Lépico oceilatro Mollociford VI VI 19-64-19 127-87500 28-85700 BRD Lépico oceilatro Mollociford VI 19-64-19 127-87500 28-85700 BRD Cépico oceilatro Mollociford VI 19-64-19 122-87100 28-85700 BRD Cépico oceilatro Mollociford VI 19-64-19 122-87100 28-85700 BRD Lépico oceilatro Mollociford Mollociford VI 19-64-19 122-85100 28	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.651300	-28.561900
BRD Copio a celebra Molestowin VU 19-06-19 12-06-10 22-25-200 BRD Leipon a celebra Molestowin VU 19-06-19 12-25-5010 -28-3030 BRD Leipon a celebra Molestowin VU 19-06-19 12-25-5030 28-27-000 BRD Leipon a celebra Molestowin VU 19-06-19 12-28-3330 28-27-000 BRD Leipon a celebra Molestowin VU 19-06-19 12-28-3300 28-32-00 BRD Leipon a celebra Molestowin VU 19-06-19 12-28-300 28-32-00 BRD Leipon a celebra Molestowin VU 19-06-19 12-28-500 28-35-20 BRD Leipon a celebra Molestowin VU 19-06-19 12-28-700 28-35-30 BRD Leipon a celebra Molestowin VU 19-06-19 12-28-300 28-35-30 BRD Leipon a celebra Molestowin VU 19-06-19 12-28-300 28-35-30 BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.936300	-28.539100
BRC Legoca ceidata Molication VU 19-64-19 12-28-5100 28-30000 BRC Legoca ceidata Moleclewi VU 19-66-19 12-29-51300 28-70000 BRC Legoca ceidata Mollecteria VU 19-66-19 12-28-3300 28-3000 BRC Legoca ceidata Mollecteria VU 19-66-19 12-28-7500 28-32-720 BRC Legoca ceidata Mollecteria VU 19-66-19 12-28-1700 28-32-720 BRC Legoca ceidata Mollecteria VU 19-66-19 12-28-1700 28-32-200 BRC Legoca ceidata Mollecteria VU 19-66-19 12-28-8700 28-33-30 BRC Legoca ceidata Mollecteria VU 19-66-19 12-28-8700 28-33-30 BRC Legoca ceidata Mollecteria VU 19-66-19 12-28-4000 28-33-30 BRC Legoca ceidata Mollecteria VU 19-66-19 12-28-4000 28-33-30 BRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792400	-28.876500
BRD Lepon oceilaria Mallectowi VI 196-191 122,981320 28,77000 BRD Lepon oceilaria Mallectowi VI 176-17 122,893300 28,77000 BRD Lepon oceilaria Mallectowi VI 176-17 122,97900 28,33720 BRD Lepon oceilaria Mallectowi VI 196-19 122,83500 28,33720 BRD Lepon oceilaria Mallectowi VI 196-19 122,83500 28,83720 BRD Lepon oceilaria Mallectowi VI 196-19 122,88000 -88,83000 BRD Lepon oceilaria Mallectowi VI 196-19 122,78000 -88,83000 BRD Lepon oceilaria Mallectowi VI 196-19 122,78000 -88,83000 BRD Lepon oceilaria Mallectowi VI 196-19 122,89000 -88,84100 BRD Lepon oceilaria Mallectowi VI 196-19 122,89700 -88,84100 BRD Lepon oceilari	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.004400	-28.759000
BKD Laipon ceilotra Molientowi VU 19-06-19 122,833300 -28,909901 BKD Laipon ceilotra Molientowi VU 19-06-19 122,833300 -28,537900 BKD Leipon ceilotra Molientowi VU 19-06-19 122,835500 -28,037300 BKD Leipon ceilotra Molientowi VU 19-06-19 122,81100 28,526900 BKD Leipon ceilotra Molientowi VU 19-06-19 122,24000 -28,87330 BKD Leipon ceilotra Molientowi VU 19-06-19 122,74000 -28,83300 BKD Leipon ceilotra Molientowi VU 19-06-19 122,74000 -28,83300 BKD Leipon ceilotra Molientowi VU 19-06-19 122,84000 -28,83500 BKD Leipon ceilotra Molientowi VU 19-06-19 122,84000 -28,83500 BKD Leipon ceilotra Molientowi VU 19-06-19 122,24400 -28,83500 BKD <td>BIRD</td> <td>Leipoa ocellata</td> <td>Malleefowl</td> <td>VU</td> <td>19-06-19</td> <td>122.805100</td> <td>-28.530300</td>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.805100	-28.530300
BIRD Leipon celidra Malleefowl V.U 19-61-y 122-97500 28-37200 BIRD Leipon celidra Malleefowl V.U 19-66-y 122-83500 29-803700 BIRD Leipon celidra Malleefowl V.U 19-66-y 122-83100 28-8700 BIRD Leipon celidra Malleefowl V.U 19-66-y 122-8000 28-8730 BIRD Leipon celidra Malleefowl V.U 19-66-y 122-4000 28-83130 BIRD Leipon celidra Malleefowl V.U 19-66-y 122-74000 28-83130 BIRD Leipon celidra Malleefowl V.U 19-66-y 122-74000 28-87400 BIRD Leipon celidra Malleefowl V.U 19-66-y 122-8300 29-37800 BIRD Leipon celidra Malleefowl V.U 19-66-y 122-37700 28-87400 BIRD Leipon celidra Malleefowl V.U 19-66-y 122-38700 28-8700 BIRD Leipon	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.951300	-28.770000
BRD Leipca ceclatra Molienfown VU 19.06 19 12.285500 28.90270 BRD Leipca ceclatra Mollenfown VU 19.06 19 122.81710 -82.59600 BRD Leipca ceclatra Mollenfown VU 19.06 19 122.81700 -82.59600 BRD Leipca ceclatra Mollenfown VU 19.06 19 122.74000 -28.81300 BRD Leipca ceclatra Mollenfown VU 19.06 19 122.74600 -28.81300 BRD Leipca ceclatra Mollenfown VU 19.06 19 122.74600 -28.81400 BRD Leipca ceclatra Mollenfown VU 19.06 19 122.64600 28.932300 BRD Leipca ceclatra Mollenfown VU 19.06 19 122.74000 -28.87410 BRD Leipca ceclatra Mollenfown VU 19.06 19 122.75000 -28.87410 BRD Leipca ceclatra Mollenfown VU 19.06 19 122.75200 28.87410 BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.833300	-28.900900
BIRD Lépoa ceilata Malletowl VU 19-64-19 122,81710 -28,57690 BIRD Lépoa ceilata Malletowl VU 19-64-19 12,289000 28,673600 BIRD Lépoa ceilata Malletowl VU 19-64-19 12,246000 28,83300 BIRD Lépoa ceilata Malletowl VU 19-64-19 122,74600 -28,83400 BIRD Lépoa ceilata Malletowl VU 19-64-19 122,74600 -28,83400 BIRD Lépoa ceilata Malletowl VU 19-64-19 122,74600 -28,87400 BIRD Lépoa ceilata Malletowl VU 19-64-19 122,64400 -28,69470 BIRD Lépoa ceilata Malletowl VU 19-64-19 122,7370 28,82400 BIRD Lépoa ceilata Malletowl VU 19-64-19 122,8700 28,83400 BIRD Lépoa ceilata Malletowl VU 19-64-19 122,85100 28,83400 BIRD Lépoa ceilata <td>BIRD</td> <td>Leipoa ocellata</td> <td>Malleefowl</td> <td>VU</td> <td>19-06-19</td> <td>122.937500</td> <td>-28.537200</td>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.937500	-28.537200
BIRD Lépora oceilota Malleefowl VU 19-61-9 122.689000 -28.74300 BRD Lépora oceilota Malleefowl VU 19-61-9 122.740000 28.831300 BRD Lépora oceilota Molleefowl VU 19-61-9 122.74600 -28.83400 BRD Lépora oceilota Molleefowl VU 19-04-19 122.79210 28.87400 BRD Lépora oceilota Molleefowl VU 19-04-19 122.6400 28.87400 BRD Lépora oceilota Molleefowl VU 19-04-19 122.6300 28.87400 BRD Lépora oceilota Molleefowl VU 19-04-19 122.73700 28.87400 BRD Lépora oceilota Molleefowl VU 19-04-19 122.73700 28.87400 BRD Lépora oceilota Molleefowl VU 19-04-19 122.81500 28.57400 BRD Lépora oceilota Molleefowl VU 19-04-19 122.45100 28.53300 BRD L	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.835500	-28.903700
BIRD Leipoa oceilara Malleefowl VU 19-06-19 122,74000 -28,81300 BIRD Leipoa oceilara Malleefowl VU 19-06-19 122,74600 -28,835400 BIRD Leipoa oceilara Malleefowl VU 19-06-19 122,782100 -28,835400 BIRD Leipoa oceilara Malleefowl VU 19-06-19 122,883400 -28,33800 BIRD Leipoa oceilara Malleefowl VU 19-06-19 122,68400 -28,33800 BIRD Leipoa oceilara Malleefowl VU 19-06-19 122,67400 -28,592400 BIRD Leipoa oceilara Malleefowl VU 19-06-19 122,734700 -28,597400 BIRD Leipoa oceilara Malleefowl VU 19-06-19 122,73700 -28,59740 BIRD Leipoa oceilara Malleefowl VU 19-06-19 122,73700 -28,51300 BIRD Leipoa oceilara Malleefowl VU 19-06-19 122,73700 28,35300 <	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.817100	-28.526900
BIRD Leipoa oceilata Molleefowl VU 19-06-19 12274660 28.83540 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.79700 -28.87400 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.79700 -28.97400 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.64900 -28.97470 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.734700 -28.89410 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.73700 -28.59740 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.85700 -28.59740 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.65150 -28.59740 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.033400 -28.73300 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.74800 -28.35500 BIR	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.689000	-28.676300
BIRD Leipoa oceilara Malleeford VU 19-06-19 122.792100 28.874400 BIRD Leipoa oceilara Malleeford VU 19-06-19 122.853400 -28.873200 BIRD Leipoa oceilara Malleeford VU 19-06-19 122.664900 -28.874100 BIRD Leipoa oceilara Malleeford VU 19-06-19 122.747300 -28.874100 BIRD Leipoa oceilara Malleeford VU 19-06-19 122.772300 -28.57400 BIRD Leipoa oceilara Malleeford VU 19-06-19 122.857000 -28.57400 BIRD Leipoa oceilara Malleeford VU 19-06-19 122.857000 -28.57300 BIRD Leipoa oceilara Malleeford VU 19-06-19 122.79300 -28.831600 BIRD Leipoa oceilara Malleeford VU 19-06-19 122.79300 -28.83160 BIRD Leipoa oceilara Malleeford VU 19-06-19 122.79700 -28.83160	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.740000	-28.831300
BIRD Leipoa oceilaria Malleefowi VU 19-06-19 122.853400 -28.932800 BIRD Leipoa oceilaria Malleefowi VU 19-06-19 122.664900 -28.674700 BIRD Leipoa oceilaria Malleefowi VU 19-06-19 122.73700 -28.82410 BIRD Leipoa oceilaria Malleefowi VU 19-06-19 122.737300 -28.57740 BIRD Leipoa oceilaria Malleefowi VU 19-06-19 122.857000 -28.57740 BIRD Leipoa oceilaria Malleefowi VU 19-06-19 122.857000 -28.57940 BIRD Leipoa oceilaria Malleefowi VU 19-06-19 122.765100 -28.5100 BIRD Leipoa oceilaria Malleefowi VU 19-06-19 122.73800 -28.5100 BIRD Leipoa oceilaria Malleefowi VU 19-06-19 122.74800 -28.83500 BIRD Leipoa oceilaria Malleefowi VU 19-06-19 122.748200 -28.53000 <tr< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.746600</td><td>-28.835400</td></tr<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.746600	-28.835400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.664700 -28.694700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.734700 28.824100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.734700 28.507400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.857000 28.507400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.651500 28.591200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.551500 28.51200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.75700 28.51200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.74300 -28.53300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.79700 28.50100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.79200 28.76460	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792100	-28.874400
BIRD Lejpoa oceilata Malleefowl VU 19-06-19 122,734700 -28,824100 BIRD Lejpoa oceilata Malleefowl VU 19-06-19 122,772300 -28,507400 BIRD Lejpoa oceilata Malleefowl VU 19-06-19 122,857000 -28,597000 BIRD Lejpoa oceilata Malleefowl VU 19-06-19 122,651500 -28,561200 BIRD Lejpoa oceilata Malleefowl VU 19-06-19 122,051500 -28,561200 BIRD Lejpoa oceilata Malleefowl VU 19-06-19 122,051500 -28,561200 BIRD Lejpoa oceilata Malleefowl VU 19-06-19 122,739700 -28,831600 BIRD Lejpoa oceilata Malleefowl VU 19-06-19 122,743800 -28,83500 BIRD Lejpoa oceilata Malleefowl VU 19-06-19 122,747200 -28,83500 BIRD Lejpoa oceilata Malleefowl VU 19-06-19 122,745200 -28,83500 <tr< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.853400</td><td>-28.932800</td></tr<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.853400	-28.932800
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.772300 -28.507400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.857000 -28.939000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.651500 -28.561200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.651500 -28.561200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.739700 -28.831600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.739700 -28.835500 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.792700 -28.835500 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.792700 -28.764600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.972800 -28.764600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.292300 -28.573300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.664900	-28.694700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.857000 -28.939000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.651500 -28.561200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.035400 -28.753300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.739700 -28.831600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.743800 -28.835500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792700 -28.500100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792700 -28.500100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792700 -28.500100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792700 -28.536300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.293300 -28.535300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.734700	-28.824100
BIRD Leipoa cellata Malleefowl VU 19-06-19 122,651500 -28,561200 BIRD Leipoa cellata Malleefowl VU 19-06-19 123,035400 -28,753300 BIRD Leipoa cellata Malleefowl VU 19-06-19 122,739700 -28,831600 BIRD Leipoa cellata Malleefowl VU 19-06-19 122,743800 -28,835500 BIRD Leipoa cellata Malleefowl VU 19-06-19 122,792700 -28,801100 BIRD Leipoa cellata Malleefowl VU 19-06-19 122,792700 -28,801100 BIRD Leipoa cellata Malleefowl VU 19-06-19 122,792700 -28,801100 BIRD Leipoa cellata Malleefowl VU 19-06-19 122,792800 -28,835900 BIRD Leipoa cellata Malleefowl VU 19-06-19 122,99300 -28,536300 BIRD Leipoa cellata Malleefowl VU 19-06-19 123,009900 -28,57300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.772300	-28.507400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.035400 -28.753300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.857000	-28.939000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,79700 -28.831600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,743800 -28.835500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,792700 -28.500100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,79200 -28.764600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,78200 -28.832900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,292300 -28.536300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,623500 -28.557300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123,009900 -28.75400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,834100 -28.57400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,806100 -28.777800	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.651500	-28.561200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.743800 -28.835500		Leipoa ocellata	Malleefowl	VU	19-06-19	123.035400	-28.753300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792700 -28.500100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.739700	-28.831600
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.978200 -28.764600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.743800	-28.835500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745200 -28.832900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792700	-28.500100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,929300 -28.536300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.623500 -28.557300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.009900 -28.759400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.029200 -28.754300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.834100 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.906100 -28.777800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.867800 -28.804000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.909400 -28.777900		Leipoa ocellata	Malleefowl	VU	19-06-19		
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.623500 -28.557300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.009900 -28.759400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.029200 -28.754300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.834100 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.906100 -28.777800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.867800 -28.804000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.909400 -28.777900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745200	-28.832900
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.009900 -28.759400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.029200 -28.754300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.834100 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.906100 -28.777800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.867800 -28.804000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.909400 -28.777900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.929300	-28.536300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.029200 -28.754300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.834100 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.906100 -28.777800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.867800 -28.804000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.909400 -28.777900		Leipoa ocellata	Malleefowl		19-06-19	122.623500	-28.557300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.834100 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.906100 -28.777800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.867800 -28.804000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.909400 -28.777900		· · ·					
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.906100 -28.777800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.867800 -28.804000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.909400 -28.777900							
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.867800 -28.804000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.909400 -28.777900		· · ·					
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.909400 -28.777900							
		Leipoa ocellata	Malleefowl		19-06-19		
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.738600 -28.826100		· · ·					
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.738600	-28.826100

SEC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.723200	-28.614200
RFC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.012100	-28.755800
PRO	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.734900	-28.820400
DEF Improvementary Mathematical Mathematica	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.931800	-28.536700
PRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.011600	-28.755600
PRO	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.787300	-28.873600
Page	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.655900	-28.567500
Modestrow Modestrow Modestrow VU 19-06-19 122-98200 -22-2650 2870 28	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.835500	-28.530900
REC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.777100	-28.502000
REC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.848700	-28.786500
RED Leiboa oceilato Molleefowi VU 19-06-19 122.839400 28.531100 RED Leiboa oceilato Molleefowi VU 19-06-19 122.839400 28.531100 28.5	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.011100	-28.757300
REC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.871000	-28.955000
RED	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839400	-28.531100
SED	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.854900	-28.786600
SIRD Leipoa celletra Molleefowl VU 19-06-19 122.822300 28.526600 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.777800 -28.741400 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.77800 -28.541400 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.78000 -28.541400 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.78000 -28.541400 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.78000 -28.54100 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.78000 -28.54200 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.88000 -28.54200 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.88000 -28.889100 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.88500 -28.889100 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.88500 -28.889100 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.88500 -28.889100 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.78500 -28.891100 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.78500 -28.891500 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.78500 -28.895000 SIRD Leipoa celletra Molleefowl VU 19-06-19 122.88500 -28.89700 -28.89700 -28.89700 -28.89700 -28.89700 -28.89700 -28.89700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.836500	-28.529000
BIRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.668400	-28.576500
BIRD Lejpoa ocellata Malleefowl VU 19-06-19 122695200 28.534100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.822300	-28.526600
BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.788100 -28.504700 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.750000 28.839200 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.012800 -28.543200 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.012800 -28.543200 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.005800 -28.545100 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.005800 -28.58600 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.839300 -28.58600 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.839300 -28.58600 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.74500 -28.58600 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.74500 -28.58600 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.74500 -28.575100 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.74500 -28.575100 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.74500 -28.779100 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.74500 -28.579100 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.74500 -28.579100 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.74500 -28.50500 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.773700 -28.50500 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.773500 -28.50500 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.78300 -28.50700 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.78300 -28.50700 BIRD Leipoa ocellota Malleefowl VU 19-06-19 122.78300 -28.50700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.777800	-28.741400
BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,750000 -28,387200 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,648700 -28,563200 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,648700 -28,563200 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,86900 -28,876100 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,86900 -28,889100 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,88500 -28,88900 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,89300 -28,331400 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,795500 -28,89100 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,795500 -28,89100 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,795500 -28,89100 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,79300 -28,875100 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,783900 -28,875100 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,783900 -28,877100 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,773700 -28,777100 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,773700 -28,50500 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,773500 -28,50500 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,733500 -28,50500 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,733500 -28,50500 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,73500 -28,50500 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,73500 -28,50700 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,73600 -28,807300 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,73600 -28,807300 BIRD Leipoa oceilata Molleefowl VI 19-06-19 122,73600 -28	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.695200	-28.534100
BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.48700 -28.563200 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 123.012800 -28.75610 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.80500 -28.898100 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.85600 -28.858600 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.833300 -28.531400 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.893300 -28.858100 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.795500 -28.498100 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.795400 -28.875100 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.793400 -28.875100 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.793700 -28.79100 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.793700 -28.79100 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.793700 -28.800500 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.793700 -28.800500 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.793500 -28.800500 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.793500 -28.800500 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.833600 -28.919500 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.833600 -28.919500 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.833600 -28.532800 BIRD Leipoa oceilata Malieefowl VIU 19-06-19 122.78300 -28.532700 BIRD Leipoa oceilata Malieef	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.768100	-28.504700
EIRD Leipoa oceilata Malleefowl VU 19-06-19 123.012800 -28.756100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.750000	-28.839200
BIRD Leipoa oceilara Malleefowl VU 19-06-19 122.805900 -28.889100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.648700	-28.563200
BIRD Leipoa oceilata Maileefowl VU 19-06-19 122.685600 -28.586800 BIRD Leipoa oceilata Maileefowl VU 19-06-19 122.593300 -28.531400 BIRD Leipoa oceilata Maileefowl VU 19-06-19 122.795600 -28.498100 BIRD Leipoa oceilata Maileefowl VU 19-06-19 122.793400 -28.875100 BIRD Leipoa oceilata Maileefowl VU 19-06-19 122.783900 -28.71100 BIRD Leipoa oceilata Maileefowl VU 19-06-19 122.783900 -28.771100 BIRD Leipoa oceilata Maileefowl VU 19-06-19 122.793700 -28.771100 BIRD Leipoa oceilata Maileefowl VU 19-06-19 122.773700 -28.500500 BIRD Leipoa oceilata Maileefowl VU 19-06-19 122.793700 -28.500500 BIRD Leipoa oceilata Maileefowl VU 19-06-19 122.79300 -28.503500 <t< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>123.012800</td><td>-28.756100</td></t<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.012800	-28.756100
BIRD Leipoa oceliata Malleefawl VU 19-06-19 122.839300 -28.531400 BIRD Leipoa oceliata Malleefawl VU 19-06-19 122.796500 -28.478100 BIRD Leipoa oceliata Malleefawl VU 19-06-19 122.793400 -28.875100 BIRD Leipoa oceliata Malleefawl VU 19-06-19 122.783900 -28.77100 BIRD Leipoa oceliata Malleefawl VU 19-06-19 122.793700 -28.77100 BIRD Leipoa oceliata Malleefawl VU 19-06-19 122.744900 -28.834300 BIRD Leipoa oceliata Malleefawl VU 19-06-19 122.744900 -28.500500 BIRD Leipoa oceliata Malleefawl VU 19-06-19 122.773500 -28.500500 BIRD Leipoa oceliata Malleefawl VU 19-06-19 122.833600 -28.915500 BIRD Leipoa oceliata Malleefawl VU 19-06-19 122.75100 -28.532700 <tr< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.806900</td><td>-28.889100</td></tr<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.806900	-28.889100
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.796500 -28.498100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.685600	-28.586800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,793400 -28,875100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,783900 -28,77100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,797700 -28,779100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,744900 -28,834300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,793700 -28,500500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,793700 -28,500500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,793700 -28,500500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,833600 -28,502500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,75100 -28,504700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,748500 -28,527700 <t< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.839300</td><td>-28.531400</td></t<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839300	-28.531400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,783900 -28,741000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,907700 -28,779100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,744900 -28,834300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,793700 -28,500500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,793500 -28,500500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,833600 -28,500500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,833600 -28,500500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,833600 -28,500500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,775100 -28,532800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,775100 -28,804700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.796500	-28.498100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.907700 -28.779100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793400	-28.875100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,744900 -28,834300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.783900	-28.741000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,793700 -28,500500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.907700	-28.779100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793500 -28.500500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744900	-28.834300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.833600 -28.919500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793700	-28.500500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.853600 -28.532800	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793500	-28.500500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.775100 -28.504700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.785300 -28.527700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.743800 -28.832700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.788600 -28.870300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.794600 -28.879100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.839800 -28.787100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.746200 -28.833200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.79500 -28.833200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.79500 -28.536600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.833600	-28.919500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.785300 -28.527700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.743800 -28.832700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.788600 -28.870300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.794600 -28.879100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.839800 -28.787100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.746200 -28.833200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792500 -28.536600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.853600	-28.532800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.743800 -28.832700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.788600 -28.870300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.794600 -28.879100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.839800 -28.787100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.746200 -28.833200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.929500 -28.536600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.775100	-28.504700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.788600 -28.870300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.794600 -28.879100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.839800 -28.787100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.746200 -28.833200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.929500 -28.536600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.785300	-28.527700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.794600 -28.879100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.839800 -28.787100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.746200 -28.833200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.929500 -28.536600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.743800	-28.832700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.839800 -28.787100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.746200 -28.833200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.929500 -28.536600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.788600	-28.870300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.746200 -28.833200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.929500 -28.536600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.794600	-28.879100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.929500 -28.536600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839800	-28.787100
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.746200	-28.833200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.857000 -28.788600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.929500	-28.536600
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.857000	-28.788600

PRO	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.954200	-28.768000
RSC Londonceithin Malerderine VII. PARALP 12,828,850 28,534,800 RSC Lebool ceithin Mellerderine VIII. 160,10 12,228,850 2,853,000 36,530,000 RSC Lebool ceithin Mellerderine VIII. 160,10 12,245,000 36,530,000 RSC Lebool ceithin Mellerderine VIII. 160,10 12,277,000 36,500,000 RSC Lebool ceithin Mellerderine VIII. 176,600 172,750,000 36,500,000 RSC Lebool ceithin Mellerderine VIII. 176,600 172,750,000 36,500,000 RSC Lebool ceithin Mellerderine VIII. 176,600 122,750,000 36,800,000 RSC Lebool ceithin Mellerderine Mellerderine VIII. 176,110 122,750,000 36,800,000 RSC Lebool ceithin Mellerderine Mellerderine VIII. 176,110 122,750,000 36,800,000 RSC Lebool ceithin Mellerderine	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.856700	-28.939600
1952 Lepto centric Moderbow Moderbow VI 1944-9 124,5500 25,58760 1850 18	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.718700	-28.702400
BCD Improvementation Administration VII 19-0.19 125,45000 35,5000 BCD Lebood celloria Mollection VII 19-0.9 122,74500 25,5000 BKD Lebood celloria Mollection VII 19-0.9 122,74500 25,5000 BKD Lebood celloria Mollection VII 19-0.19 122,74500 25,7000 BKD Lebood celloria Mollection VII 19-0.19 122,74500 25,83010 BKD Lebood celloria Mollection VII 19-0.19 122,74500 25,83310 BKD Lebood celloria Mollection VII 19-0.19 122,74500 25,83310 BKD Lebood celloria Mollection VII 19-0.19 122,75300 26,83310 BKD Lebood celloria Mollection VII 19-0.19 122,75300 28,93310 BKD Lebood celloria Mollection VII 19-0.19 122,25300 25,7530 BKD Leb	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839500	-28.531400
BRDC Langua ocealira Molestorin Vol 19-26-17 2227-7500 22,54500 BRD Langua ocealira Molestorin Molestorin VI 19-61-79 1222-1500 22,6500 BRD Langua ocealira Molestorin VI 19-61-79 1222-1500 -22,6500 BRD Langua ocealira Molestorin VI VI 19-61-79 122-7500 -22,8500 BRD Langua ocealira Molestorin Molestorin VI 19-61-79 122-7500 -22,8500 BRD Langua ocealira Molestorin Molestorin VI 19-61-79 122-1500 -22,7500 BRD Langua ocealira Molestorin Molestorin VI	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.621500	-28.559600
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.653200	-28.562900
850 Dispos celtaria Moderlow VI 19-66-19 12,95530 22,78100 810 Lapoz celtaria Nicientowi VI 19-66-19 122,74500 28,2500 810 Lapoz celtaria Nicientowi VI 19-66-19 122,74500 28,2500 810 Lapoz celtaria Alcientowi VI 19-66-19 122,74500 28,2500 810 Lapoz celtaria Alcientowi VI 19-66-19 122,75500 28,2800 810 Lapoz celtaria Alcientowi VI 19-66-19 122,75500 28,4800 810 Lapoz celtaria Micherbori VI 19-66-19 122,75500 28,4810 810 Lapoz celtaria Micherbori VI 19-66-19 122,75500 28,4910 810 Lapoz celtaria Micherbori VI 19-66-19 122,7160 28,2770 810 Lapoz celtaria Micherbori VI 19-66-19 122,7160 28,2770 810 Lapoz celtaria	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.977400	-28.764500
BKD Abbott obserbitor Molectival Molectival U I 966-99 12,299/500 -22,4050 (molectival) 840 2 biotro occellato Molectival V U I 966-99 122,74020 28,83310 (molectival) 840 2 biotro occellato Molectival V U I 966-99 122,79020 28,87300 (molectival) 850 2 biotro occellato Molectival V U I 966-19 122,79100 28,87300 (molectival) 850 2 biotro occellato Molectival V U I 966-19 122,88670 28,41000 (molectival) 850 2 biotro occellato Molectival V U I 966-19 122,88670 28,41000 (molectival) 850 2 biotro occellato Molectival V U I 966-19 122,88670 28,41000 (molectival) 850 2 biotro occellato Molectival V U I 966-19 122,88670 28,41000 (molectival) 850 2 biotro occellato Molectival V U I 966-19 122,88300 28,7500 (molectival) 850 2 biotro occellato Molectival V U I 966-19 122,88300 28,8910 (molectival) <td< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.776200</td><td>-28.502000</td></td<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.776200	-28.502000
BRO Lebor oceilard Mollicofrom VI 19-6-19 22-24020 28-8310 RBO Lebor oceilard Mollicofrom VI 19-66-19 122-279-300 28-87500 RBO Lebor oceilard Mollicofrom VI 19-66-19 122-279-300 28-87500 RBO Lepoc oceilard Mollienfowd VI 19-66-19 122-289-00 28-88-00 RBC Lepoc oceilard Mollienfowd VI 19-66-19 122-289-00 28-81500 RBC Lebor oceilard Mollionfowd VI 19-66-19 122-2800 28-2850 RBC Lebor oceilard Mollionfowd VI 19-66-19 122-28100 28-2750 RBC Lebor oceilard Mollicofrom VI 19-66-19 122-28100 28-2750 RBC Lebor oceilard Mollicofrom VI 19-66-19 122-28100 28-7370 RBC Lebor oceilard Mollicofrom VI 19-66-19 122-28100 28-37370 RBC Lep	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.955500	-28.768100
BRC Expos ocelatro Molacetawi Myl 196-19 22.79300 22.87500 BRC Lejoco ocelatro Molacetawi VU 196-61 12.275300 28.87600 BRC Lejoco ocelatro Molacetawi VU 196-61 122.55300 28.74600 BRC Lejoco ocelatro Molacetawi VU 196-61 122.25500 28.94300 BRC Lejoco ocelatro Molacetawi VU 196-61 122.25500 28.94300 BRC Lejoco ocelatro Molacetawi VU 196-61 122.25500 28.37500 BRC Lejoco ocelatro Molacetowi VU 196-61 122.26100 28.27570 BRC Lejoco ocelatro Molacetowi VU 196-19 122.61000 28.77570 BRC Lejoco ocelatro Molacetowi VU 196-19 122.26100 28.97500 BRC Lejoco ocelatro Molacetowi VU 196-19 122.27600 28.93500 BRC Lejoco ocelatro	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.999500	-28.760300
BRD Colpos oceilato Molectowi VU 196.19 12,793100 28,74000 BRD Léporo oceilato Molectowi VU 196.19 12,275200 28,8000 BRD Léporo oceilato Molectowi VU 196.19 12,275200 28,81300 BRD Léporo oceilato Molectowi VU 196.61 12,278500 28,81300 BRD Léporo oceilato Molectowi VU 196.61 12,278500 28,81300 BRD Léporo oceilato Molectowi VU 196.61 12,278500 28,7570 BRD Léporo oceilato Molectowi VU 196.61 12,267600 28,7570 BRD Léporo oceilato Molectowi VU 196.61 12,267700 28,7570 BRD Léporo oceilato Molectowi VU 196.61 12,267700 28,7570 BRD Léporo oceilato Molectowi VU 196.61 12,267700 28,3500 BRD Léporo oceilato Molec	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.743200	-28.833100
BRD Lejono acetatra Mallactery Marian VI 19-61-19 122752001 28-80800 BRD Lejono acetatra Mollesfowl VI 19-61-19 122285070 39-8100 BRD Lejono acetatra Mollesfowl VI 19-61-19 1228500 28-81300 BRD Lejono acetatra Mollesfowl VI 19-61-19 122871600 28-23900 BRD Lejono acetatra Mollesfowl VI 19-61-19 122871600 28-37370 BRD Lejono acetatra Mollesfowl VI 19-61-19 122871600 28-37370 BRD Lejono acetatra Mollesfowl VI 19-61-19 12287800 28-879300 BRD Lejono acetatra Mollesfowl VI 19-61-19 12287800 28-88100 BRD Lejono acetatra Mollesfowl VI 19-61-19 1224690 28-88350 BRD Lejono acetatra Mollesfowl VI 19-61-19 12274070 28-83590 BRD <td>BIRD</td> <td>Leipoa ocellata</td> <td>Malleefowl</td> <td>VU</td> <td>19-06-19</td> <td>122.793400</td> <td>-28.875000</td>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793400	-28.875000
BRD Zeipos cestato Molecioni Molecioni VI 19-61-jg 122,88670 28,94100 BRO Leipos cestato Molecioni VI 19-04-jg 122,788070 28,1000 BRO Leipos cestato Molecioni VI 19-04-jg 122,84800 28,39900 BRO Leipos cestato Molecioni VI 19-04-jg 122,91000 28,77500 BRO Leipos cestato Molecioni VI 19-04-jg 122,8300 28,77500 BRO Leipos cestato Molecioni VI 19-04-jg 122,8300 28,87700 BRO Leipos cestato Molecioni VI 19-04-jg 122,800 28,84700 BRO Leipos cestato Molecioni VI 19-04-jg 122,4000 28,83400 BRO Leipos cestato Molecioni VI 19-04-jg 122,4000 28,83400 BRO Leipos cestato Molecioni VI 19-04-jg 122,24600 28,83800 BRO L	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793100	-28.874800
BRD Leipon celluta Molisoftwil VU 19-06-19 12-278800 -28-13000 BRD Leipon celluta Molisefowl VU 19-06-19 12-278000 -28-57900 BRD Leipon celluta Molisefowl VU 19-06-19 12-271000 -28-7770 BRD Leipon celluta Molisefowl VU 19-06-19 12-24-1000 -28-7780 BRD Leipon celluta Molisefowl VU 19-06-19 122-247000 -28-7780 BRD Leipon celluta Molisefowl VU 19-06-19 122-24500 -28-83100 BRD Leipon celluta Molisefowl VU 19-06-19 122-24500 -28-83400 BRD Leipon celluta Molisefowl VU 19-06-19 122-74900 -28-8360 BRD Leipon celluta Molisefowl VU 19-06-19 122-74900 -28-8360 BRD Leipon celluta Molisefowl VU 19-06-19 122-74900 -28-83500 BRD Leip	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.755200	-28.840800
SIRD Lépico oceilata Mollectival Vulu 19 64 ps 22,84800 28,25900 BIRD Lépico oceilata Mallectival VU 19 64 ps 12,271000 28,77570 BIRD Lépico oceilata Mallectival VU 19 64 ps 122,271000 28,77570 BIRD Lépico oceilata Mallectival VU 19 64 ps 122,28300 -28,7780 BIRD Lépico oceilata Mallectival VU 19 64 ps 122,24500 -28,7830 BIRD Lépico oceilata Mallectival VU 19 64 ps 122,24500 -28,94670 BIRD Lépico oceilata Mallectival VU 19 64 ps 122,24500 -28,94670 BIRD Lépico oceilata Mallectival VU 19 64 ps 122,24900 -28,95600 BIRD Lépico oceilata Mallectival VU 19 64 ps 122,24900 -28,95800 BIRD Lépico oceilata Mallectival VU 19 64 ps 122,24900 -28,95800	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.858700	-28.943100
SRD Lejoca cesidato Malicefowl VU 19-06-19 12-91030 -28-775/00 BRD Lejoca cesidato Molleefowl VU 19-06-19 122-87760 -25-57300 BRD Lejoca cesidato Molleefowl VU 19-06-19 122-83200 -27-8750 BRD Lejoca cesidato Molleefowl VU 19-06-19 122-85200 -28-8710 BRD Lejoca cesidato Molleefowl VU 19-06-19 122-85200 -28-9470 BRD Lejoca cesidato Molleefowl VU 19-06-19 122-85200 -28-85400 BRD Lejoca cesidato Molleefowl VU 19-06-19 122-74900 -28-38500 BRD Lejoca cesidato Molleefowl VU 19-06-19 122-74900 -28-38500 BRD Lejoca cesidato Molleefowl VU 19-06-19 122-74900 -28-38000 BRD Lejoca cesidato Molleefowl VU 19-06-19 122-79100 -28-38000 BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.728500	-28.613000
BRD Lépod ocellaria Malledowl VU 19-64-19 12-2471600 -28,57370-10 BRD Lépod ocellaria Mollesfowl VU 19-64-19 122,333500 28,77800-10 BRD Lépod ocellaria Mollesfowl VU 19-64-19 122,33500 28,78100-10 BRD Lépod ocellaria Mollesfowl VU 19-64-19 122,74500 28,83400-10 BRD Lépod ocellaria Mollesfowl VU 19-64-19 122,74800 28,83400-10 BRD Lépod ocellaria Mollesfowl VU 19-64-19 122,74800 28,83500-10 BRD Lépod ocellaria Mollesfowl VU 19-64-19 122,74800 28,83500-10 BRD Lépod ocellaria Mollesfowl VU 19-64-19 122,74800 28,83500-10 BRD Lépod ocellaria Mollesfowl VU 19-64-19 122,74100 28,53500-10 BRD Lépod ocellaria Mollesfowl VU 19-64-19 122,721010 28,53800-10	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.834800	-28.529800
BIRD Lépod oceilida Malleefowl VU 19-06-19 122,833600 28,77850 BIRD Lépod oceilida Molleefowl VU 19-06-19 122,622700 28,83100 BIRD Lépod oceilida Molleefowl VU 19-06-19 127,24500 28,83400 BIRD Lépod oceilida Molleefowl VU 19-06-19 127,24500 28,83400 BIRD Lépod oceilida Molleefowl VU 19-06-19 127,49700 28,83500 BIRD Lépod oceilida Molleefowl VU 19-06-19 122,89700 28,83500 BIRD Lépod oceilida Molleefowl VU 19-06-19 122,89700 28,83500 BIRD Lépod oceilida Molleefowl VU 19-06-19 122,79100 28,83500 BIRD Lépod oceilida Molleefowl VU 19-06-19 122,79100 28,83500 BIRD Lépod oceilida Molleefowl VU 19-06-19 122,79200 28,8400 BIRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.910500	-28.775700
BND Leipoa oceilato Malieefowl VU 19-06-19 122.652700 -98.91100 BND Leipoa oceilato Malleefowl VU 19-06-19 122.745200 -28.833400 BND Leipoa oceilato Malleefowl VU 19-06-19 122.74500 -28.835400 BND Leipoa oceilato Malleefowl VU 19-06-19 122.74900 -28.83800 BND Leipoa oceilato Malleefowl VU 19-06-19 122.74900 -28.83500 BND Leipoa oceilato Malleefowl VU 19-06-19 122.74900 -28.35500 BND Leipoa oceilato Malleefowl VU 19-06-19 122.70100 -28.25800 BND Leipoa oceilato Malleefowl VU 19-06-19 122.72100 -28.52800 BND Leipoa oceilato Malleefowl VU 19-06-19 122.79700 -28.87600 BND Leipoa oceilato Malleefowl VU 19-06-19 122.92700 -28.87600 BND	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.671600	-28.573700
BIRD Leipoa oceilata Malieefowl VU 19-06-19 122-745200 -28.83540 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.246100 -28.94700 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.74990 -28.835800 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.74990 -28.835500 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.90900 -28.83500 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.90900 -28.33000 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.92900 -28.84000 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.79700 -28.84000 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.79900 -28.84000 BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.79900 -28.84000 <td< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.833600</td><td>-28.778500</td></td<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.833600	-28.778500
BIRD Lejoa oceilara Malleeford VU 19-6-19 12.86 k00 -28.94 f00 BIRD Lejoa oceilara Malleeford VU 19-0-19 122.74900 -28.83800 BIRD Lejoa oceilara Malleeford VU 19-0-19 122.74900 -28.83500 BIRD Lejoa oceilara Malleeford VU 19-0-19 122.69900 -28.53500 BIRD Lejoa oceilara Malleeford VU 19-0-19 122.7010 -28.5800 BIRD Lejoa oceilara Malleeford VU 19-0-19 122.72100 -28.54010 BIRD Lejoa oceilara Malleeford VU 19-0-19 122.72100 -28.84000 BIRD Lejoa oceilara Malleeford VU 19-0-19 122.75100 -28.84000 BIRD Lejoa oceilara Malleeford VU 19-0-19 122.75100 -28.84000 BIRD Lejoa oceilara Malleeford VU 19-0-19 122.75100 -28.53000 BIRD Le	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.652700	-28.691100
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,74990 -28,83680 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,74590 28,83500 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,704700 28,53080 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,704100 26,53080 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,704100 28,53080 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,70700 28,84010 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,75100 28,84070 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,75100 28,84070 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,75100 28,841700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,751100 28,841700 BIRD </td <td>BIRD</td> <td>Leipoa ocellata</td> <td>Malleefowl</td> <td>VU</td> <td>19-06-19</td> <td>122.745200</td> <td>-28.835400</td>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745200	-28.835400
BIRD Leipoa ocellata Molleefowl VU 19-06-19 122.746900 -28.83500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.09900 28.53000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.70100 28.52800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.79700 28.54000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.79700 28.84000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.75100 28.84700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.75100 28.84700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.75100 28.84700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.75100 28.81700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.83300 28.533100 BIRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.861600	-28.946700
BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.809900 -28.53000 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.074100 -28.53800 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.79100 -28.54800 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.72700 -28.84030 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.751900 -28.84070 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.751900 -28.84070 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.751900 -28.84070 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.75100 -28.84070 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.75100 -28.53100 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.63800 -28.553100 <	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.749900	-28.836800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.704100 -28.52880 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.291900 -28.540100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.29700 -28.676300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.972700 -28.876300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.972700 -28.876300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.972700 -28.897000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.78700 -28.980010 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.77500 -28.90100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.77500 -28.53000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.88700 -28.58200	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.746900	-28.835500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.921900 -28.540100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.79700 -28.87630 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.751900 -28.84070 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.751900 -28.89850 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.962700 -28.89850 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.75100 -28.90100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.75100 -28.80100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.75100 -28.53300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.63300 -28.53310 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835700 -28.53800 <	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.809900	-28.530000
BIRD Leipoa celata Malleefowl VU 19-06-19 122.79200 -28.876300 BIRD Leipoa celata Malleefowl VU 19-06-19 122.751900 -28.840700 BIRD Leipoa celata Malleefowl VU 19-06-19 122.962700 -28.898500 BIRD Leipoa celata Malleefowl VU 19-06-19 122.92800 -28.890100 BIRD Leipoa celata Malleefowl VU 19-06-19 122.79800 -28.890100 BIRD Leipoa celata Malleefowl VU 19-06-19 122.774500 -28.890100 BIRD Leipoa celata Malleefowl VU 19-06-19 122.774500 -28.503000 BIRD Leipoa celata Malleefowl VU 19-06-19 122.63800 -28.53110 BIRD Leipoa celata Malleefowl VU 19-06-19 122.835700 -28.53100 BIRD Leipoa celata Malleefowl VU 19-06-19 122.835700 -28.53800 BIRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.704100	-28.528800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.751900 -28.840700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.751900 -28.849700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.928800 -28.901100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.774500 -28.841700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.774500 -28.533000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.73500 -28.53300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835700 -28.53890 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835700 -28.53890 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835700 -28.53800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.87500 -28.53300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.921900	-28.540100
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.962700 -28.98500 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.928800 -28.90100 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.751100 -28.841700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.77500 -28.53000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.633800 -28.53100 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.835700 -28.53890 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.835700 -28.53890 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.835700 -28.51890 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.864100 -28.58200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.695000 -28.53300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792700	-28.876300
BIRD Lépod ocellata Malledowl VU 19-06-19 122,928800 -28,90100 BIRD Lépod ocellata Malledowl VU 19-06-19 122,71100 -28,841700 BIRD Lépod ocellata Malledowl VU 19-06-19 122,774500 -28,50300 BIRD Lépod ocellata Malledowl VU 19-06-19 122,633800 -28,53100 BIRD Lépod ocellata Malledowl VU 19-06-19 122,83500 -28,53800 BIRD Lépod ocellata Malledowl VU 19-06-19 122,835700 -28,91890 BIRD Lépod ocellata Malledowl VU 19-06-19 122,83700 -28,91890 BIRD Lépod ocellata Malledowl VU 19-06-19 122,83700 -28,53300 BIRD Lépod ocellata Malledowl VU 19-06-19 122,87000 -28,53300 BIRD Lépod ocellata Malledowl VU 19-06-19 122,69500 -28,81000 BIRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.751900	-28.840700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.751100 -28.841700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.774500 -28.503000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.633800 -28.553100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.935900 -28.53890 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835700 -28.53890 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835700 -28.58620 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837000 -28.53300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.695000 -28.68100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.790400 -28.77000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.78600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.962700	-28.898500
BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.774500 -28.503000 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.633800 -28.553100 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.935900 -28.533890 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.835700 -28.91890 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.835700 -28.58620 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.837000 -28.533000 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.837000 -28.533000 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.837000 -28.631000 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.79400 -28.877000 BIRD Leipoa ocellafa Malleefowl VU 19-06-19 122.793100 -28.87800	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.928800	-28.900100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.633800 -28.553100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.935900 -28.538900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835700 -28.918900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.83700 -28.586200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837000 -28.533000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.695000 -28.61000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.790400 -28.877000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.876800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.78500 -28.870400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.751100	-28.841700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.935900 -28.538900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835700 -28.918900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.684100 -28.586200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837000 -28.533000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.695000 -28.681000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.790400 -28.877000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.790400 -28.877000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.876800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.787500 -28.870400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.774500	-28.503000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835700 -28.918900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.684100 -28.586200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837000 -28.533000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.695000 -28.681000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.790400 -28.877000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.876800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.876800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.876800	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.633800	-28.553100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.684100 -28.586200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837000 -28.533000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.695000 -28.681000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.790400 -28.877000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.876800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.787500 -28.870400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.935900	-28.538900
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837000 -28.533000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.695000 -28.681000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.790400 -28.877000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.876800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.787500 -28.870400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.835700	-28.918900
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.695000 -28.681000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.790400 -28.877000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.876800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.787500 -28.870400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.684100	-28.586200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.790400 -28.877000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.876800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.787500 -28.870400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837000	-28.533000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793100 -28.876800 BIRD Leipoa ocellata Wu 19-06-19 122.787500 -28.870400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.695000	-28.681000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.787500 -28.870400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.790400	-28.877000
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793100	-28.876800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.858100 -28.787700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.787500	-28.870400
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.858100	-28.787700

Note Content Motorfow Vic. 1946-17 1777-7900 29-84-102 Note Content Motorfow Vic. Vic. 1946-17 1772-7900 29-84-102 Note Content Motorfow Vic. Vic. 1946-17 1722-7800 29-84-103 Note Content Content Motorfow Vic. Vic. 1946-17 1722-7800 29-84-103 Note Content Content Motorfow Vic. Vic. 1946-17 1722-7800 29-87-103 Note Content Content Motorfow Vic.	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.728900	-28.611700
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.727900	-28.615100
BFC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.737200	-28.619800
1670 Improvementary	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.645800	-28.551100
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.977500	-28.764200
BRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.783700	-28.499700
BRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.794200	-28.500300
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.993600	-28.761800
SRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792300	-28.753700
SRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839200	-28.531300
REC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.735400	-28.618600
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.713700	-28.807800
RRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.955800	-28.899000
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839700	-28.531500
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.774400	-28.504500
BRD Leipoa oceilota Malleefowl VU 19-06-19 122,975300 -28,767000 BRD Leipoa oceilota Malleefowl VU 19-06-19 122,990300 -29,90900 -29	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.850400	-28.929000
SED Leipoa ocellota Molleefowl VU 19-06-19 12293200 -28,909900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.904000	-28.901700
BIRD Leipoa acellata Malleefowl VU 19-06-19 122,918700 -28,903000 BIRD Leipoa acellata Malleefowl VU 19 06-19 122,44200 28,548700 BIRD Leipoa acellata Malleefowl VU 19 06-19 122,253200 28,548700 BIRD Leipoa acellata Malleefowl VU 19 06-19 122,73200 28,619200 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,73200 28,619200 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,745100 -28,834400 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,745100 -28,834400 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,745100 -28,74200 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,74500 -28,74200 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,74500 -28,740100 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,833700 -28,781100 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,44900 28,543200 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,44900 28,543200 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,74500 -28,543200 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,74500 -28,54200 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,7797700 -28,53000 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,7797700 -28,53000 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,838900 -28,788900 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,795000 -28,788900 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,79500 -28,78000 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,79500 -28,760000 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,83500 -28,77300 BIRD Leipoa acellata Malleefowl VU 19-06-19 122,83500 -28,	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.975300	-28.767000
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.648200 -28.548700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.853200 -28.709600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.737200 -28.619200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.745100 -28.334400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.745100 -28.334400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.79500 -28.75200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.270400 -28.799400 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.84500 -28.59100 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.48500 -28.59100 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.745300 -28.53000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.930200	-28.900900
BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.853200 -28.790600 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.737200 -28.6197200 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.737200 -28.6197200 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.75100 -28.834400 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.975200 -28.762200 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.875200 -28.762200 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.836700 -28.789100 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.836700 -28.789100 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.63500 -28.561300 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.63500 -28.583200 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.743500 -28.832700 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.743500 -28.532000 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.743500 -28.754200 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.797700 -28.53000 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.97700 -28.76500 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.97900 -28.766900 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.97900 -28.766900 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.97900 -28.76000 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.97900 -28.70000 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.97900 -28.50000 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.97900 -28.50000 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.97900 -28.50000 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.87500 -28.78600 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.87500 -28.78600 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.87500 -28.78600 BIRD Leipoa ocellata Malleefowl VI 19-06-19 122.87600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.918700	-28.903000
BIRD Leipoa oceilata Malleefawl VU 19-06-19 122.737200 -28.619200	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.648200	-28.548700
BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,745100 -28,834400 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,75200 -28,762200 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,75200 -28,762200 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,75200 -28,789100 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,83700 -28,789100 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,683500 -28,831300 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,683500 -28,837300 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,783500 -28,837300 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,797700 -28,330000 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,797700 -28,330000 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,836900 -28,764200 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,836900 -28,764200 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,836900 -28,760000 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,0000 -28,70000 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,0000 -28,70000 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,0000 -28,70000 BIRD Leipoa oceilata Malleefowl VU 19-66-19 122,835000 -28	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.853200	-28.790600
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,975200 -28,762200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,10400 -28,79400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,836700 -28,780100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,849600 -28,561300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,849500 -28,531300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,249500 -28,537300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,743500 -28,832700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,77700 -28,530000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,83500 -28,786500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,835000 -28,786900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.737200	-28.619200
BIRD Leipoa oceliata Molleefowl VU 19-06-19 122.710400 -28.79400 BIRD Leipoa oceliata Malleefowl VU 19-06-19 122.836700 -28.780100 BIRD Leipoa oceliata Molleefowl VU 19-06-19 122.649600 -28.561300 BIRD Leipoa oceliata Molleefowl VU 19-06-19 122.649500 -28.537300 BIRD Leipoa oceliata Molleefowl VU 19-06-19 122.797700 -28.537300 BIRD Leipoa oceliata Molleefowl VU 19-06-19 122.797700 -28.537000 BIRD Leipoa oceliata Molleefowl VU 19-06-19 122.797700 -28.530000 BIRD Leipoa oceliata Molleefowl VU 19-06-19 122.83600 -28.754200 BIRD Leipoa oceliata Molleefowl VU 19-06-19 122.83600 -28.768000 BIRD Leipoa oceliata Molleefowl VU 19-06-19 122.93000 -28.760000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745100	-28.834400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836700 -28.780100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.975200	-28.762200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.649600 -28.561300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.683500 -28.587300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.743500 -28.832700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.797700 -28.533000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.797700 -28.753000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836900 -28.758000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.933000 -28.768000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.972900 -28.76000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792900 -28.500300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.933500 -28.530600 <	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.710400	-28.799400
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,683500 -28,587300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,743500 -28,383270 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,797700 -28,530000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,3012500 -28,754200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,836900 -28,768000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,836900 -28,768900 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,933000 -28,768900 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,792900 -28,76000 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,792900 -28,500300 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,835100 -28,503600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.836700	-28.780100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,743500 -28,832700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,797700 -28,530000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123,012500 -28,754200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,836900 -28,780500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,953000 -28,780500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,953000 -28,76000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,792900 -28,760000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,792900 -28,50000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,835100 -28,530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,837600 -28,73000 <tr< td=""><td>BIRD</td><td>Leipoa ocellata</td><td>Malleefowl</td><td>VU</td><td>19-06-19</td><td>122.649600</td><td>-28.561300</td></tr<>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.649600	-28.561300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,797700 -28,530000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.683500	-28.587300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.012500 -28.754200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836900 -28.780500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.953000 -28.768900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.002400 -28.768900 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.002400 -28.760000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792900 -28.500300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.919000 -28.903100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835100 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835100 -28.73000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837600 -28.73000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837600 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837600 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.848600 -28.786400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745400 -28.836400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.855200 -28.785100		Leipoa ocellata	Malleefowl	VU	19-06-19	122.743500	-28.832700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.836900 -28.786900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.797700	-28.530000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,953000 -28,768900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.012500	-28.754200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123,002400 -28,760000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.836900	-28.780500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792900 -28.500300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.919000 -28.903100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835100 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.933500 -28.773000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837600 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.848600 -28.786400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745400 -28.836400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.85200 -28.785100		Leipoa ocellata	Malleefowl	VU	19-06-19		
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.919000 -28.903100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835100 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.933500 -28.773000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837600 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.848600 -28.786400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745400 -28.836400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.855200 -28.785100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.002400	-28.760000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.835100 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.933500 -28.773000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837600 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.848600 -28.786400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745400 -28.836400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.855200 -28.785100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792900	-28.500300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.933500 -28.773000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837600 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.848600 -28.786400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745400 -28.836400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.855200 -28.785100		Leipoa ocellata	Malleefowl		19-06-19	122.919000	-28.903100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837600 -28.530600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.848600 -28.786400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745400 -28.836400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.855200 -28.785100							
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BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.745400 -28.836400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.855200 -28.785100							
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.855200 -28.785100		Leipoa ocellata	Malleefowl	VU	19-06-19		
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745400	-28.836400
BIRD Leipoa ocellata VU 19-06-19 122.745200 -28.836900							
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745200	-28.836900

1980 1990	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.953600	-28.769000
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.906800	-28.777000
BRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.641800	-28.554100
1972 Legion control	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.004800	-28.757000
PRO	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.957500	-28.900400
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.936100	-28.539300
BRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.011200	-28.757700
PRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.868000	-28.804100
SED	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.664100	-28.544600
REC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744600	-28.836600
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.840800	-28.925100
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.743000	-28.832600
BRD Lojpoa acolatra Maleslowi VU 19-619 122-91000 28,90000 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-99000 28,90000 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-99000 28,90000 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-98000 98,804 100 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-4800 98,804 100 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-4800 98,804 100 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-4800 98,804 100 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-75000 28,807 200 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-75000 28,807 200 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-77000 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-77700 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-77700 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-77700 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-77700 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-77700 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-77700 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-77700 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-77800 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-78000 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-78000 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-78000 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-78000 28,807 200 28,807 200 18 BRD Lojpoa acolatra Maleslowi VU 19-06 19 122-78000 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,807 200 28,80	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.652000	-28.564300
BRD Leipoa aceillota Malaetowl VU 19-06-19 122,795000 -28,498300 BRD Leipoa aceillota Malaetowl VU 19-06-19 122,791900 -28,528300 -	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.829200	-28.912100
SIRD Leipoa ocellata Malleefowl VU 19.06.19 122.79190 28.526300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.901000	-28.900300
NRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.795000	-28.498300
BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,744800 -78,834300 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,551800 -28,552400 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,79000 -28,57200 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,79000 -28,57200 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,79000 -28,57900 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,87200 -28,589800 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,87200 -28,59800 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,77700 -28,502300 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,83600 -28,529300 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,83600 -28,529300 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,83600 -28,529300 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,83600 -28,579500 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,83600 -28,579500 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,83000 -28,579500 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,80000 -28,599500 BIRD Leipoa oceilata Malleetowi VIU 19-66-19 122,83000 -28,599500 BIRD Leipoa oceilata Malleetowi VIU 19	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.791900	-28.526300
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.867600	-28.804100
BIRD Leipoa oceilota Moileefowl VU 19-06-19 122,796000 -28,527200 BIRD Leipoa oceilota Moileefowl VU 19-06-19 122,796000 -28,877300 BIRD Leipoa oceilota Moileefowl VU 19-06-19 122,87200 -28,587800	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744800	-28.834300
SIRD Leipoa oceilata Malieefowl VU 19-06-19 122,779-000 -28,877300 -28,569800	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.651800	-28.562400
BIRD Leipoa oceilata Malleeford VU 19-06-19 122,587200 -28,569800 BIRD Leipoa oceilata Malleeford VU 19-06-19 122,731900 -28,519300 BIRD Leipoa oceilata Malleeford VU 19-06-19 122,77700 -28,519300 BIRD Leipoa oceilata Malleeford VU 19-06-19 122,776700 -28,529300 BIRD Leipoa oceilata Malleeford VU 19-06-19 122,74800 -28,35100 BIRD Leipoa oceilata Malleeford VU 19-06-19 122,84800 -28,329500 BIRD Leipoa oceilata Malleeford VU 19-06-19 122,85000 -28,769700 BIRD Leipoa oceilata Malleeford VU 19-06-19 122,98700 -28,769700 BIRD Leipoa oceilata Malleeford VU 19-06-19 122,603700 -28,56200 BIRD Leipoa oceilata Malleeford VU 19-06-19 122,769000 -28,549900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.796000	-28.527200
BIRD Leipoa oceliata Malleefawl VU 19-06-19 122,731900 -28,519300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.790400	-28.877300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,777700 -28,502300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.587200	-28.569800
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.786700 -28.524300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.731900	-28.519300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,74800 -28,835100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.777700	-28.502300
BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.836000 -28.529500 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.952700 -28.769700 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.948900 -28.770500 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.948900 -28.566200 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.03700 -28.566200 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.716900 -28.498900 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.716900 -28.691900 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 123.004900 -28.757600 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 123.804900 -28.757600 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.882400 -28.963500 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.886000 -28.945500 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.860200 -28.945500 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.83600 -28.528800 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.981300 -28.69100 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.981300 -28.69100 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.981300 -28.69100 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.982800 -28.528400 -28.528400 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.972800 -28.528400 -28.528400 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.972800 -28.528400 -28.528400 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.972800 -28.528400 -28.528400 BIRD Leipoa ocelidata Malleefowl VU 19-06-19 122.972800 -28.528400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.786700	-28.524300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,952700 -28,769700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.744800	-28.835100
BIRD Leipoa acellata Malleefowl VU 19-06-19 122.948900 -28.770500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.836000	-28.529500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,603700 -28,566200	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.952700	-28.769700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.787000 -28.498900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.948900	-28.770500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.716900 -28.691900	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.603700	-28.566200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.004900 -28.757600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.787000	-28.498900
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.882400 -28.963500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.716900	-28.691900
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.860200 -28.945500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.826500 -28.528800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.918200 -28.903000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.681300 -28.669100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.004800 -28.757400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792800 -28.528100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837100 -28.532400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837100 -28.532400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.574800 -28.5377000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.004900	-28.757600
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.826500 -28.528800	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.882400	-28.963500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.918200 -28.903000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.860200	-28.945500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.681300 -28.669100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.004800 -28.757400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792800 -28.528100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837100 -28.532400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.574800 -28.577000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.826500	-28.528800
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.004800 -28.757400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792800 -28.528100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837100 -28.532400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.574800 -28.577000		Leipoa ocellata	Malleefowl	VU	19-06-19	122.918200	-28.903000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.792800 -28.528100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837100 -28.532400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.574800 -28.577000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.681300	-28.669100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.837100 -28.532400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.574800 -28.577000		Leipoa ocellata	Malleefowl		19-06-19		
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.574800 -28.577000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792800	-28.528100
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837100	-28.532400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.952400 -28.541800	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.574800	-28.577000
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.952400	-28.541800

BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793500	-28.875000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.960600	-28.765600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837500	-28.530300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.907900	-28.778600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.846500	-28.785500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.847700	-28.789500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.746600	-28.835700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.004700	-28.759400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.755800	-28.840500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.644200	-28.551600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.956300	-28.899300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.739700	-28.831600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.826600	-28.792800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.978700	-28.764700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.724900	-28.702500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745300	-28.833500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745000	-28.834800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.748000	-28.834700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745500	-28.835100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.774200	-28.504300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.604900	-28.691100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.880300	-28.780600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.956300	-28.899100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.747000	-28.836800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.785900	-28.501700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.826900	-28.792300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.746800	-28.834500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.651700	-28.562800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.855300	-28.532600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.776300	-28.502000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.647900	-28.557700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.736400	-28.824700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.775700	-28.737400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.824000	-28.776200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837000	-28.532400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.797600	-28.883400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.859700	-28.799800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.657300	-28.543400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.683400	-28.585900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745100	-28.836600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.903000	-28.779500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.029100	-28.753700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837800	-28.531400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.002700	-28.759400

BSC Lisbout unerwhole Volumerical VII 19-61 122-28000 28,54400 BSC Lisbout unerwhole Volumerical VII 19-61 12,248000 28,54400 28,54500 BSD Lisbout unerwhole VII 19-61 12,224,000 28,58800 28,77200 BFD Lisbout onerwhole VIII 19-61 12,224,000 28,77200 28,77200 BFD Lisbout onerwhole Molecular VII 19-61 12,224,000 28,77200 BFD Lisbout onerwhole Molecular VII 19-61 12,244,000 28,74500 BFD Lisbout onerwhole Allendershill VII 19-61 12,241,000 29,54500 BFD Lisbout onerwhole Allendershill VII 19-61 12,241,000 29,54500 BFD Lisbout onerwhole Allendershill VII 19-61 12,241,000 29,54500 BFD Lisbout onerwhole Allendershill VII 19-61 12,27,2500 28,57500 BFD Lisbout onerwhole Allendershill VII 19-61 12,27,2500 <th>BIRD</th> <th>Leipoa ocellata</th> <th>Malleefowl</th> <th>VU</th> <th>19-06-19</th> <th>122.922700</th> <th>-28.774700</th>	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.922700	-28.774700
Month	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.748000	-28.834400
SEC Lepoa central	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.842300	-28.786300
BRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.836400	-28.528800
PRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.906900	-28.775200
PRO	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.860100	-28.945500
BRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.617900	-28.561300
Miller	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.617500	-28.560900
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.934200	-28.541100
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.878600	-28.902500
88D	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.783900	-28.873600
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.730400	-28.618900
BRD	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.909800	-28.780000
BRC	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.772300	-28.507500
BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,780300 -28,525600 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,781800 -28,52700 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,881800 -28,52700 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,89400 -28,531400 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,89400 -28,531400 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,79400 -28,59000 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,79700 -28,59000 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,797100 -28,79000 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,89700 -28,19700 BRD Lejoca ccelidata Mallantawi VU 19-06-19 122,85300 -28,79500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.794000	-28.500400
BRD Leipaa acellaria Malicertowi Vu 19-06-19 122.781800 -28.524700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.751900	-28.840300
BIRD Leipoa oceiliota Molleefowl VIU 19-06-19 122,88500 -28,74300 BIRD Leipoa oceiliota Molleefowl VIU 19-06-19 122,233400 -28,531400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.780300	-28.525600
BIRD Leipoa acellata Malleefowl VU 19-06-19 122.839400 -28.531400 BIRD Leipoa acellata Malleefowl VU 19-06-19 122.774200 28.595000 BIRD Leipoa acellata Malleefowl VU 19-06-19 122.972100 28.595000 BIRD Leipoa acellata Malleefowl VU 19-06-19 122.972100 28.595000 Malleefowl VU 19-06-19 122.9725500 28.595000 Malleefowl VU 19-06-19 122.583500 28.595000 Malleefowl VU 19-06-19 122.583500 28.595000 Malleefowl VU 19-06-19 122.583500 28.594700 Malleefowl VU 19-06-19 122.645600 28.597200 Malleefowl VU 19-06-19 122.978600 28.598300 Malleefowl VU 19-06-19 122.98600 28.599300 Malleefowl VU 19-06-19 122.98600 28.599300 Malleefowl VU 19-06-19 122.98600 28.599300 Malleefowl VU 19-06-19 122.98600 28.598700 Malleefowl VU 19-06-19 122.98600 28.598700 Malleefowl VU 19-06-19 122.93600 28.598700 28.598700 Malleefowl VU 19-06-19 122.93600 28.598700 28.598700 Malleefowl VU 19-06-19 122.93600 28.598700 28.598700 28.598700 28.598700 28.5	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.781800	-28.524700
BIRD Leipoa oceliara Maileefowi VU 19-06-19 122.794200 -28.529000 BIRD Leipoa oceliara Maileefowi VU 19-06-19 122.878000 -28.52900 BIRD Leipoa oceliara Maileefowi VU 19-06-19 122.878000 -28.59700 BIRD Leipoa oceliara Maileefowi VU 19-06-19 122.736900 -28.41960 BIRD Leipoa oceliara Maileefowi VU 19-06-19 122.736900 -28.41960 BIRD Leipoa oceliara Maileefowi VU 19-06-19 122.71000 -28.778600 BIRD Leipoa oceliara Maileefowi VU 19-06-19 122.775000 -28.50470 BIRD Leipoa oceliara Maileefowi VU 19-06-19 122.45600 -28.55200 BIRD Leipoa oceliara Maileefowi VU 19-06-19 122.263000 -28.55300 BIRD Leipoa oceliara Maileefowi VU 19-06-19 122.77800 -28.53330	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.685200	-28.676300
BIRD Leipoa oceilata Molleefowl VU 19-06-19 122.878000 -28.959400	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.839400	-28.531400
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,927100 -28,900600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,736900 -28,6178600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,715000 -28,6178600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,833000 -28,578600 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,775000 -28,504700 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,445600 -28,557200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,203000 -28,557200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,203000 -28,557200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,279800 -28,557200 BIRD Leipoa oceilata Malleefowl VU 19-06-19 122,778600 -28,597300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.794200	-28.529000
BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,736900 -28,619600 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,911000 -28,778600 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,85600 -28,798600 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,85600 -28,590700 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,645600 -28,597200 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,645600 -28,597200 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,620300 -28,597200 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,620300 -28,597200 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,778600 -28,597200 BIRD Leipoa oceilata Malleefawi VU 19-06-19 123,004200 -28,793300 BIRD Leipoa oceilata Malleefawi VU 19-06-19 123,004200 -28,793300 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,862000 -28,899500 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,736400 -28,89100 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,736400 -28,89100 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,736400 -28,89100 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,736200 -28,589700 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,736200 -28,589700 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,73000 -28,579000 BIRD Leipoa oceilata Malleefawi VU 19-06-19 123,002400 -28,759000 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,793300 -28,579000 BIRD Leipoa oceilata Malleefawi VU 19-06-19 122,773300 -28,579000 BIRD Leipoa oceilata Malleefawi VU 19-06-1	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.878000	-28.959400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,911000 -28,778600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.927100	-28.900600
BIRD Leipoa oceilata Malleefowl VU 19-06-19 122.853600 -28.790500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.736900	-28.619600
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.775000 -28.504700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.911000	-28.778600
BIRD Leipoa ocelida Malleefowl VU 19-06-19 122.645600 -28.557200 BIRD Leipoa ocelida Malleefowl VU 19-06-19 122.620300 -28.558100 BIRD Leipoa ocelida Malleefowl VU 19-06-19 122.929800 -28.538300 BIRD Leipoa ocelida Malleefowl VU 19-06-19 122.778600 -28.538300 BIRD Leipoa ocelida Malleefowl VU 19-06-19 122.778600 -28.579300 BIRD Leipoa ocelida Malleefowl VU 19-06-19 122.004200 -28.759300 BIRD Leipoa ocelida Malleefowl VU 19-06-19 122.786000 -28.899500 BIRD Leipoa ocelida Malleefowl VU 19-06-19 122.754000 -28.891100 BIRD Leipoa ocelida Malleefowl VU 19-06-19 122.79300 -28.58700 BIRD Leipoa ocelida Malleefowl VU 19-06-19 122.804000 -28.579000	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.853600	-28.790500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,620300 -28,558100 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,92800 -28,538300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,778600 -28,501200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123,004200 -28,759300 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,80200 -28,879500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,754600 -28,897500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,754600 -28,897500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,754600 -28,538700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,71700 -28,697400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,88400 -28,529600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.775000	-28.504700
BIRD Leipaa acellata Malleefawl VU 19-06-19 122,92800 -28,538300	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.645600	-28.557200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122,778600 -28.501200	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.620300	-28.558100
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.004200 -28.759300		Leipoa ocellata	Malleefowl	VU	19-06-19	122.929800	-28.538300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.862000 -28.899500	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.778600	-28.501200
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.754600 -28.841100	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.004200	-28.759300
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.936200 -28.538700	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.862000	-28.899500
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.719700 -28.697400 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.004500 -28.759000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.828400 -28.529600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.029400 -28.754800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793300 -28.527700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.838200 -28.532500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.713700 -28.529200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.713700 -28.529200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793400 -28.528600		Leipoa ocellata	Malleefowl	VU	19-06-19		
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.004500 -28.759000 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.828400 -28.529600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.029400 -28.754800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793300 -28.527700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.838200 -28.532500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.713700 -28.529200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793400 -28.528600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.936200	-28.538700
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.828400 -28.529600 BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.029400 -28.754800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793300 -28.527700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.838200 -28.532500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.713700 -28.529200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793400 -28.528600	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.719700	-28.697400
BIRD Leipoa ocellata Malleefowl VU 19-06-19 123.029400 -28.754800 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793300 -28.527700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.838200 -28.532500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.713700 -28.529200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793400 -28.528600		Leipoa ocellata	Malleefowl		19-06-19		-28.759000
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793300 -28.527700 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.838200 -28.532500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.713700 -28.529200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793400 -28.528600		· · ·					
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.838200 -28.532500 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.713700 -28.529200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793400 -28.528600							
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.713700 -28.529200 BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793400 -28.528600		1					
BIRD Leipoa ocellata Malleefowl VU 19-06-19 122.793400 -28.528600							
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.713700	-28.529200
BIRD Leipoa ocellata VU 19-06-19 122.952500 -28.766000		1					
	BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.952500	-28.766000

BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.957200	-28.900900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.835500	-28.903300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.675100	-28.579400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.742100	-28.833900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.788100	-28.527300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.785400	-28.500800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.851000	-28.785800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.748000	-28.835100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.593600	-28.693100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.774900	-28.504900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.575300	-28.576500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.592200	-28.694300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.830400	-28.530400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.763300	-28.511700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.653200	-28.562600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.956500	-28.900000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.689400	-28.677700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.853200	-28.795300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.956100	-28.899600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.722500	-28.613900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837600	-28.532400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.754900	-28.841000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.742800	-28.832900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.796100	-28.751800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.586500	-28.568800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.989000	-28.761100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.801800	-28.496700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.028900	-28.754400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.832300	-28.531500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745800	-28.834800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.837100	-28.532400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.972000	-28.764200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.979200	-28.764100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.590900	-28.571300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.953100	-28.542400
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.858900	-28.798100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.738000	-28.519900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.682600	-28.583600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.896100	-28.780000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792300	-28.500200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.585100	-28.569900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.743300	-28.832600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.682500	-28.582800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.900100	-28.777900

BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.003400	-28.757700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.836200	-28.782900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.746300	-28.833200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.792200	-28.526100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.855000	-28.785300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.929000	-28.537700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.793100	-28.528500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.789100	-28.527200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.859400	-28.530500
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.841600	-28.790900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.745800	-28.836900
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.988700	-28.760700
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.728000	-28.615200
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.909200	-28.778300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.794200	-28.500600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.886800	-28.782600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.654600	-28.564100
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.936700	-28.899800
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.647800	-28.562300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.933500	-28.535600
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.015400	-28.755000
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	122.743100	-28.832300
BIRD	Leipoa ocellata	Malleefowl	VU	19-06-19	123.011600	-28.759100
REPTILE	Liopholis kintorei	Great Desert Skink	VU	01-03-67	122.751400	-28.514700
MAMMAL	Macrotis lagotis	Bilby, Dalgyte, Ninu	VU		122.400000	-28.633300
MAMMAL	Macrotis lagotis	Bilby, Dalgyte, Ninu	VU		122.400000	-28.633300
MAMMAL	Myrmecobius fasciatus	Numbat, Walpurti	EN	01-01-18	122.401400	-28.682000
MAMMAL	Myrmecobius fasciatus	Numbat, Walpurti	EN		122.500000	-28.683300
MAMMAL	Myrmecobius fasciatus	Numbat, Walpurti	EN		122.500000	-28.683300
BIRD	Plegadis falcinellus	Glossy Ibis	IA	05-11-00	122.216900	-28.597200
BIRD	Polytelis alexandrae	Princess Parrot	P4		122.400000	-28.633300
BIRD	Polytelis alexandrae	Princess Parrot	P4		122.400000	-28.633300
MAMMAL	Sminthopsis longicaudata	Long-tailed Dunnart	P4	01-01-11	122.430000	-28.810000
MAMMAL	Sminthopsis longicaudata	Long-tailed Dunnart	P4	01-01-11	122.430000	-28.810000
MAMMAL	Sminthopsis longicaudata	Long-tailed Dunnart	P4	07-01-11	122.434000	-28.818900
MAMMAL	Sminthopsis longicaudata	Long-tailed Dunnart	P4	07-01-11	122.434000	-28.818900
MAMMAL	Sminthopsis longicaudata	Long-tailed Dunnart	P4	08-01-11	122.387400	-28.820000
MAMMAL	Sminthopsis longicaudata	Long-tailed Dunnart	P4	08-01-11	122.387400	-28.820000
MAMMAL	Sminthopsis longicaudata	Long-tailed Dunnart	P4	12-01-11	122.433300	-28.821600
MAMMAL	Sminthopsis longicaudata	Long-tailed Dunnart	P4	12-01-11	122.433300	-28.821600
MAMMAL	Sminthopsis longicaudata	Long-tailed Dunnart	P4	06-04-11	122.421000	-28.809200
MAMMAL	Sminthopsis longicaudata	Long-tailed Dunnart	P4	18-04-11	122.430000	-28.810000
BIRD	Tringa glareola	Wood Sandpiper	IA	20-01-08	122.381100	-28.838600
BIRD	Tringa nebularia	Common Greenshank, Greenshank	IA	15-11-00	122.200300	-28.597200

Table B-3: Protected Matters Search Tool (DoAWE 2020b)

Matters of National Env	Matters of National Environmental Importance						
World Heritage Properties:	None						
National Heritage Places:	None						
Wetlands of International Importance:	None						
Great Barrier Reef Marine Park:	None						
Commonwealth Marine Area:	None						
Listed Threatened Ecological Communities	None						
Listed Threatened Species:	4						
Listed Migratory Species:	8						

Other Matters Protected by the EPBC Act				
Commonwealth Land:	1			
Commonwealth Heritage Places:	None			
Listed Marine Species:	12			
Whales and Other Cetaceans:	None			
Critical Habitats:	None			
Commonwealth Reserves Terrestrial:	None			
Australian Marine Parks:	None			

Extra Information				
State and Territory Reserves:	None			
Regional Forest Agreements:	None			
Invasive Species:	13			
Nationally Important Wetlands:	None			
Key Ecological Features (Marine)	None			

Matters of National Environmental Significance

Listed Threatened Species						
Name		Status	Type of Presence			
Scientific	Common	310103	Type of Fresence			
Birds						
Leipoa ocellata	Malleefowl [934]	Vulnerable	Species or species habitat known to occur within area			
Pezoporus occidentalis	Night Parrot [59350]	Endangered	Species or species habitat may occur within area			
Polytelis alexandrae	Princess Parrot, Alexandra's Parrot [758]	Vulnerable	Species or species habitat known to occur within area			
Mammals						
Dasyurus geoffroii	Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat may occur within area			

Listed Migratory Species					
Name		Threatened	Type of Presence		
Scientific	Common	Illedielled	Type of Fresence		
Migratory Marine Bird	ls				
Apus pacificus	Fork-tailed Swift [678]		Species or species habitat likely to occur within area		
Migratory Terrestrial S	pecies				
Motacilla cinerea	Grey Wagtail [642]		Species or species habitat may occur within area		
Motacilla flava	Yellow Wagtail [644]		Species or species habitat may occur within area		
Migratory Wetlands S	pecies				
Actitis hypoleucos	Common Sandpiper [59309]		Species or species habitat may occur within area		
Calidris acuminata	Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area		
Calidris melanotos	Pectoral Sandpiper [858]		Species or species habitat may occur within area		
Charadrius veredus	Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area		
Tringa nebularia	Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area		

Other Matters Protected by the EPBC Act

Listed Marine Species					
Name		Threatened	Type of Presence		
Scientific	Common	mediened	Type of Fresence		
Birds		-			
Actitis hypoleucos	Common Sandpiper [59309]		Species or species habitat may occur within area		
Apus pacificus	Fork-tailed Swift [678]		Species or species habitat likely to occur within area		
Ardea alba	Great Egret, White Egret [59541]		Species or species habitat likely to occur within area		
Calidris acuminata	Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area		
Calidris melanotos	Pectoral Sandpiper [858]		Species or species habitat may occur within area		
Charadrius veredus	Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area		
Chrysococcyx osculans	Black-eared Cuckoo [705]		Species or species habitat known to occur within area		
Merops ornatus	Rainbow Bee-eater [670]		Species or species habitat may occur within area		
Motacilla cinerea	Grey Wagtail [642]		Species or species habitat may occur within area		
Motacilla flava	Yellow Wagtail [644]		Species or species habitat may occur within area		
Thinornis rubricollis	Hooded Plover [59510]		Species or species habitat may occur within area		
Tringa nebularia	Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area		

Invasive Species

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	si, Nahona zana ana water kesesi		
Scientific	Common	Status	Type of Presence
Birds			
Columba livia	Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Mammals			
Camelus dromedarius	Dromedary, Camel [7]		Species or species habitat likely to occur within area
Canis Iupus familiaris	Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus	Goat [2]		Species or species habitat likely to occur within area
Equus asinus	Donkey, Ass [4]		Species or species habitat likely to occur within area
Equus caballus	Horse [5]		Species or species habitat likely to occur within area
Felis catus	Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus	House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus	Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Vulpes vulpes	Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		-	
Carrichtera annua	Ward's Weed [9511]		Species or species habitat may occur within area
Cenchrus ciliaris	Buffel-grass, Black Buffel- grass [20213]		Species or species habitat may occur within area
Tamarix aphylla	Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area

Table B-4: NatureMap (DBCA 2020c)

Name ID	Species Name	Common Name	Naturalised	Conservation Code	Endemic To Query Area
Mammal	S				
24087	Antechinomys laniger	Kultarr			
24251	Bos taurus	European Cattle	Y		
24187	Chalinolobus morio	Chocolate Wattled Bat			
30903	Dasycercus blythi	Brush-tailed Mulgara		P4	
24258	Equus caballus	Horse	Y		
24128	Lagostrophus fasciatus subsp. fasciatus	Banded hare-wallaby		VU	
25489	Macropus robustus	Euro			
24136	Macropus rufus	Red Kangaroo			
24168	Macrotis lagotis	Bilby		VU	
24223	Mus musculus	House Mouse	Y		
24146	Myrmecobius fasciatus	Numbat		EN	
24094	Ningaui ridei	Wongai Ningaui			
24096	Ningaui yvonneae	Southern Ningaui			
24224	Notomys alexis	Spinifex Hopping-mouse			
24194	Nyctophilus geoffroyi	Lesser Long-eared Bat			
24085	Oryctolagus cuniculus	Rabbit	Y		
24237	Pseudomys hermannsburgensis	Sandy Inland Mouse			
24108	Sminthopsis crassicaudata	Fat-tailed Dunnart			
24109	Sminthopsis dolichura	Little long-tailed Dunnart			
24114	Sminthopsis hirtipes	Hairy-footed Dunnart			
24115	Sminthopsis longicaudata	Long-tailed Dunnart		P4	
24116	Sminthopsis macroura	Stripe-faced Dunnart			
24205	Vespadelus finlaysoni	Finlayson's Cave Bat			

Birds					
24559	Acanthagenys rufogularis	Spiny-cheeked Honeyeater			
24260	Acanthiza apicalis	Broad-tailed Thornbill (Inland Thornbill)			
24261	Acanthiza chrysorrhoa	Yellow-rumped Thornbill			
24264	Acanthiza robustirostris	Slaty-backed Thornbill			
24265	Acanthiza uropygialis	Chestnut-rumped Thornbill			
25535	Accipiter cirrocephalus	Collared Sparrowhawk			
25536	Accipiter fasciatus	Brown Goshawk			
25544	Aegotheles cristatus	Australian Owlet-nightjar			
24312	Anas gracilis	Grey Teal			
24316	Anas superciliosa	Pacific Black Duck			
25528	Aphelocephala leucopsis	Southern Whiteface			
24267	Aphelocephala leucopsis subsp. leucopsis	Southern Whiteface			
24285	Aquila audax	Wedge-tailed Eagle			
25558	Ardea ibis	Cattle Egret			
24341	Ardea pacifica	White-necked Heron			
24610	Ardeotis australis	Australian Bustard			
25566	Artamus cinereus				
24355	Artamus minor	Little Woodswallow			
24356	Artamus personatus	Masked Woodswallow			
24318	Aythya australis	Hardhead			
	Barnardius zonarius				
33934	Branchinella denticulata	Fairy shrimp (Carnarvon to Kalgoorlie)	P3		
33935	Branchinella simplex	Fairy shrimp (inland WA)		P1	
25715	Cacatua roseicapilla	Galah			
24725	Cacatua roseicapilla subsp. assimilis	Galah			

42307	Cacomantis pallidus	Pallid Cuckoo			
24788	Calidris ruficollis	Red-necked Stint		IA	
24564	Certhionyx variegatus	Pied Honeyeater			
24377	Charadrius ruficapillus	Red-capped Plover			
24321	Chenonetta jubata	Australian Wood Duck			
47909	Cheramoeca leucosterna	White-backed Swallow			
25580	Cinclosoma castaneothorax	Chestnut-breasted Quail-thrush			
42311	Cinclosoma marginatum	Western Quail-thrush			
24774	Cladorhynchus leucocephalus	Banded Stilt			
25581	Climacteris affinis	White-browed Treecreeper			
25675	Colluricincla harmonica	Grey Shrike-thrush			
24399	Columba livia	Domestic Pigeon	Y		
24361	Coracina maxima	Ground Cuckoo-shrike			
25568	Coracina novaehollandiae	Black-faced Cuckoo-shrike			
24416	Corvus bennetti	Little Crow			
25593	Corvus orru	Torresian Crow			
24671	Coturnix pectoralis	Stubble Quail			
24420	Cracticus nigrogularis	Pied Butcherbird			
25595	Cracticus tibicen	Australian Magpie			
25596	Cracticus torquatus	Grey Butcherbird			
24322	Cygnus atratus	Black Swan			
25607	Dicaeum hirundinaceum	Mistletoebird			
24470	Dromaius novaehollandiae	Emu			
	Elanus axillaris	Black-shouldered Kite			
47937	Elseyornis melanops	Black-fronted Dotterel			
	Eolophus roseicapillus	Galah			
24567	Epthianura albifrons	White-fronted Chat			

24568	Epthianura aurifrons	Orange Chat		
24570	Epthianura tricolor	Crimson Chat		
24379	Erythrogonys cinctus	Red-kneed Dotterel		
24368	Eurostopodus argus	Spotted Nightjar		
25621	Falco berigora	Brown Falcon		
25622	Falco cenchroides	Australian Kestrel		
25623	Falco longipennis	Australian Hobby		
25624	Falco peregrinus	Peregrine Falcon	S	
25727	Fulica atra	Eurasian Coot		
	Gallus gallus			
42314	Gavicalis virescens	Singing Honeyeater		
24401	Geopelia cuneata	Diamond Dove		
25530	Gerygone fusca	Western Gerygone		
24443	Grallina cyanoleuca	Magpie-lark		
24295	Haliastur sphenurus	Whistling Kite		
25734	Himantopus himantopus	Black-winged Stilt		
24491	Hirundo neoxena	Welcome Swallow		
24557	Leipoa ocellata	Malleefowl	VU	
25661	Lichmera indistincta	Brown Honeyeater		
24326	Malacorhynchus membranaceus	Pink-eared Duck		
25652	Malurus leucopterus	White-winged Fairy-wren		
25654	Malurus splendens	Splendid Fairy-wren		
24583	Manorina flavigula	Yellow-throated Miner		
47997	Melanodryas cucullata	Hooded Robin		
24736	Melopsittacus undulatus	Budgerigar		
24598	Merops ornatus	Rainbow Bee-eater		

24737	Neophema bourkii	Bourke's Parrot		
24740	Neophema splendida	Scarlet-chested Parrot		
	Neopsephotus bourkii			
24742	Nymphicus hollandicus	Cockatiel		
24407	Ocyphaps lophotes	Crested Pigeon		
24618	Oreoica gutturalis	Crested Bellbird		
25680	Pachycephala rufiventris	Rufous Whistler		
25682	Pardalotus striatus	Striated Pardalote		
24630	Pardalotus striatus subsp. westraliensis	Striated Pardalote		
48060	Petrochelidon ariel	Fairy Martin		
48061	Petrochelidon nigricans	Tree Martin		
24659	Petroica goodenovii	Red-capped Robin		
24409	Phaps chalcoptera	Common Bronzewing		
24748	Platycercus varius	Mulga Parrot		
25703	Podargus strigoides	Tawny Frogmouth		
24681	Poliocephalus poliocephalus	Hoary-headed Grebe		
24752	Polytelis alexandrae	Princess Parrot	P4	
24683	Pomatostomus superciliosus	White-browed Babbler		
24390	Psophodes occidentalis	Western Wedgebill		
	Ptilonorhynchus guttatus			
42344	Purnella albifrons	White-fronted Honeyeater		
24278	Pyrrholaemus brunneus	Redthroat		
24776	Recurvirostra novaehollandiae	Red-necked Avocet		
48096	Rhipidura albiscapa	Grey Fantail		
25614	Rhipidura leucophrys	Willie Wagtail		
30948	Smicrornis brevirostris	Weebill		
24329	Stictonetta naevosa	Freckled Duck		

25597	Strepera versicolor	Grey Currawong		
	† 	, ,		
25705	Tachybaptus novaehollandiae	Australasian Grebe		
24331	Tadorna tadornoides	Australian Shelduck		
30870	Taeniopygia guttata	Zebra Finch		
24845	Threskiornis spinicollis	Straw-necked Ibis		
48141	Tribonyx ventralis	Black-tailed Native-hen		
24806	Tringa glareola	Wood Sandpiper	IA	
24851	Turnix velox	Little Button-quail		
24386	Vanellus tricolor	Banded Lapwing		
Reptiles				-
42380	Brachyurophis fasciolatus subsp. fasciolatus	Narrow-banded Shovel-nosed Snake)		
25020	Cryptoblepharus plagiocephalus			
24867	Ctenophorus caudicinctus subsp. infans	Ring-tailed Dragon		
24875	Ctenophorus isolepis subsp. gularis	Central Military Dragon		
25460	Ctenophorus maculatus	Spotted Military Dragon		
24882	Ctenophorus nuchalis	Central Netted Dragon		
24886	Ctenophorus reticulatus	Western Netted Dragon		
24888	Ctenophorus salinarum	Salt Pan Dragon		
24889	Ctenophorus scutulatus	Lozenge-marked Dragon		
25025	Ctenotus ariadnae			
25032	Ctenotus calurus			
25041	Ctenotus grandis subsp. grandis			
25044	Ctenotus hanloni			
25045	Ctenotus helenae			
25052	Ctenotus leonhardii			
25062	Ctenotus piankai			

25075	Ctenotus severus		
25465	Ctenotus uber	Spotted Ctenotus	
25001	Delma nasuta		
25469	Diplodactylus granariensis		
24940	Diplodactylus pulcher		
25092	Egernia depressa	Southern Pygmy Spiny-tailed Skink	
25109	Eremiascincus richardsonii	Broad-banded Sand Swimmer	
25301	Furina ornata	Moon Snake	
24957	Gehyra purpurascens		
24959	Gehyra variegata		
24961	Heteronotia binoei	Bynoe's Gecko	
25125	Lerista bipes		
25130	Lerista desertorum		
25131	Lerista distinguenda		
42411	Lerista timida		
25005	Lialis burtonis		
41412	Liopholis kintorei	Great Desert Skink	VU
41417	Liopholis striata	Night Skink	
42415	Lucasium squarrosum		
25184	Menetia greyii		
24904	Moloch horridus	Thorny Devil	
25190	Morethia butleri		
24971	Nephrurus vertebralis		
25254	Parasuta monachus		
24907	Pogona minor subsp. minor	Dwarf Bearded Dragon	
25262	Pseudechis butleri	Spotted Mulga Snake	

42416	Pseudonaja mengdeni	Western Brown Snake	
25263	Pseudonaja modesta	Ringed Brown Snake	
25009	Pygopus nigriceps		
24982	Rhynchoedura ornata	Western Beaked Gecko	
25266	Simoselaps bertholdi	Jan's Banded Snake	
24923	Strophurus assimilis	Goldfields Spiny-tailed Gecko	
24927	Strophurus elderi		
24949	Strophurus wellingtonae		
25269	Suta fasciata	Rosen's Snake	
25202	Tiliqua multifasciata	Central Blue-tongue	
25203	Tiliqua occipitalis	Western Bluetongue	
30814	Tympanocryptis cephalus	Pebble Dragon	
24983	Underwoodisaurus milii	Barking Gecko	
25211	Varanus caudolineatus		
25212	Varanus eremius	Pygmy Desert Monitor	
25218	Varanus gouldii	Bungarra or Sand Monitor	
25524	Varanus panoptes	Yellow-spotted Monitor	
25222	Varanus panoptes subsp. panoptes		
25526	Varanus tristis	Racehorse Monitor	
Amphibi	ans		
25375	Cyclorana maini	Sheep Frog	
25376	Cyclorana platycephala	Water-holding Frog	
25425	Neobatrachus kunapalari	Kunapalari Frog	
25427	Neobatrachus sutor	Shoemaker Frog	
42306	Platyplectrum spenceri	Centralian Burrowing Frog	

Table B-5: Arachnid and Myriapod Database (Western Australian Museum) (WAM 2020c)

ORDER	INFRAORDER	FAMILY	GENUS	SPECIES	SITE	DTFR	LATDEC	LONGDEC
Araneae	Mygalomorphae	Anamidae	Aname	`glenorne sp. 2`	14 km NE. of Glenorn Station Homestead, site 1B-P2	09-03-08	-29.05060	121.80900
Araneae	Mygalomorphae	Anamidae	Aname	`glenorne sp. 2`	14 km NE. of Glenorn Station Homestead, site 1B-P6	11-03-08	-29.05060	121.80900
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	13.3 km NE. of Glenorn Station Homestead, site 3B-B3	17-03-08	-29.07860	121.81100
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	13 km E. of Glenorn Station Homestead, site 5A-B3	15-03-08	-29.08790	121.80800
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 9	08-01-11	-28.83190	122.42600
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 1	08-01-11	-28.79280	122.43100
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 7	08-01-11	-28.82360	122.44200
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 1	06-01-11	-28.79280	122.43100
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 1	06-01-11	-28.79280	122.43100
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 2	06-01-11	-28.79860	122.43400
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 7	06-01-11	-28.82360	122.44200
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 1	06-01-11	-28.79280	122.43100
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 2	08-01-11	-28.79860	122.43400
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 5	06-01-11	-28.81860	122.43400
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 1	06-01-11	-28.79280	122.43100
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 11	08-01-11	-28.82640	122.38900
Araneae	Mygalomorphae	Anamidae	Aname	`MYG629`	ca. 21 km S. of Laverton, site 13	06-01-11	-28.81970	122.38700
Araneae	Mygalomorphae	Anamidae	Proshermacha	`MYG504`	Lake Carey, 33 km SW. of Wiluna	12-08-10	-28.81310	122.14500
Araneae	Mygalomorphae	Anamidae	Proshermacha	`sp. indet. (female?)`	Irwin Hills, ca. 45 km SE. of Laverton	11-09-19	-29.12610	123.00700
Araneae	Mygalomorphae	Anamidae	Teyl	`MYG444`	Lake Carey, 33 km SW. of Wiluna	11-08-10	-28.81110	122.14600
Araneae	Mygalomorphae	Anamidae	Teyl	`MYG444`	Lake Carey, 33 km SW. of Wiluna	11-08-10	-28.81110	122.14600
Araneae	Mygalomorphae	Barychelidae	Synothele	yundamindra	Yundamindra, site YMR3	23-07-81	-29.40000	122.46700
Araneae	Mygalomorphae	Barychelidae	Synothele	yundamindra	Yundamindra	23-07-81	-29.40000	122.46700
Araneae	Mygalomorphae	Barychelidae	Synothele	yundamindra	Yundamindra	23-07-81	-29.40000	122.46700
Araneae	Mygalomorphae	Barychelidae	Synothele	yundamindra	Yundamindra	12-10-80	-29.25000	122.40000
Araneae	Mygalomorphae	Barychelidae	`genus indet. (juvenile)`	`sp. indet. (female)`	Irwin Hills, ca. 45 km SE. of Laverton	10-09-19	-29.15200	123.01000
Araneae	Araneomorphae	Corinnidae	Ticopa	longbottomi	Fitz. Loc. 41 [`Sieda`], 5 km E. of Grasspatch	20-03-86	-33.23330	121.71700
Araneae	Araneomorphae	Corinnidae	Ticopa	longbottomi	Fitz. Loc. 41 [`Sieda`], 5 km E. of Grasspatch	06-02-88	-33.23330	121.71700
Araneae	Araneomorphae	Corinnidae	Ticopa	longbottomi	Fitz. Loc. 41 [`Sieda`], 5 km E. of Grasspatch	15-02-89	-33.23330	121.71700
Araneae	Araneomorphae	Corinnidae	Ticopa	longbottomi	`Sieda`, Fitz. Loc. 41, E. of Grasspatch, Tom Starcevich VC Road	27-02-97	-33.16670	121.76700
Araneae	Araneomorphae	Corinnidae	Ticopa	longbottomi	Laverton	00/07/1969	-28.61670	122.40000
Araneae	Araneomorphae	Gnaphosidae	Encoptarthria	`Leonora sp. 1`	46 km E. of Leonora, site 2a	08-10-07	-28.86130	121.79600
Araneae	Araneomorphae	Gnaphosidae	Encoptarthria	`Leonora sp. 1`	46 km E. of Leonora, site 4a	06-10-07	-28.85990	121.80000
Araneae	Araneomorphae	Gnaphosidae	`Eilica?`	`sp.`	46 km E. of Leonora, site 5a	05-10-07	-28.85930	121.78700
Araneae	Araneomorphae	Hersiliidae	Tamopsis	piankai	39 km E. of Laverton	05-10-90	-28.46660	122.83300
Araneae	Mygalomorphae	Idiopidae	Eucyrtops	eremaeus	Cardinia Creek	21-05-56	-28.81660	121.58300
Araneae	Mygalomorphae	Idiopidae	Eucyrtops	eremaeus	Cardinia Creek	20-05-56	-28.95000	121.56700
Araneae	Mygalomorphae	Idiopidae	Eucyrtops	eremaeus	Cardinia Creek, E. of Malcolm	21-05-56	-28.81660	121.58300
Araneae	Mygalomorphae	Idiopidae	Eucyrtops	eremaeus	Mt Ida, 100 km WSW. of Leonora, site MI-10-10E	29-07-08	-29.21620	120.42400
Araneae	Mygalomorphae	Idiopidae	Eucyrtops	eremaeus	Mt Ida, 100 km WSW. of Leonora, site MI-10-10D	29-07-08	-29.21650	120.42400
Araneae	Mygalomorphae	Idiopidae	Euoplos	`sp. indet. (juvenile)`	Lake Carey, 33 km SW. of Wiluna	12-08-10	-28.81170	122.14400
Araneae	Mygalomorphae	Idiopidae	Euoplos	`sp. indet. (juvenile)`	Lake Carey, 33 km SW. of Wiluna	13-08-10	-28.81690	122.14400
Araneae	Mygalomorphae	Idiopidae	Euoplos	`sp. indet. (juvenile)`	Irwin Hills, ca. 45 km SE. of Laverton	10-09-19	-29.15180	123.02000

Araneae	Mygalomorphae	Idiopidae	Euoplos	`sp. indet. (juvenile)`	Lake Carey, 33 km SW. of Wiluna	11-08-10	-28.81110	122.14600
Araneae	Mygalomorphae	Idiopidae	Euoplos	`sp. indet. (juvenile)`	Lake Carey, 33 km SW. of Wiluna	11-08-10	-28.81110	122.14600
Araneae	Mygalomorphae	Idiopidae	Euoplos	`sp. indet. (juvenile)`	Lake Carey, 33 km SW. of Wiluna	11-08-10	-28.81110	122.14600
Araneae	Araneomorphae	Lycosidae	Venator	`sp. (VWF1252)`	SE. of Mt. Kilkenny, site 3B	00/10/2007	-29.07860	121.81100
Araneae	Araneomorphae	Lycosidae	`cf. Hoggicosa`	`sp. (VWF288)`	Yundamindra, site YMR 2	12-10-80	-29.26520	122.40000
Araneae	Araneomorphae	Miturgidae	Miturga	`Leonora sp. 1`	48 km E. of Leonora, site 5b	05-10-07	-28.86020	121.80300
Araneae	Araneomorphae	Miturgidae	Miturga	`Leonora sp. 1`	46 km E. of Leonora, site 1a	09-10-07	-28.86070	121.79000
Araneae	Araneomorphae	Miturgidae	Miturga	`Leonora sp. 1`	46 km E. of Leonora, site 5a	05-10-07	-28.85930	121.78700
Araneae	Araneomorphae	Miturgidae	Miturga	`Leonora sp. 1`	46 km E. of Leonora, site 2a	08-10-07	-28.86130	121.79600
Araneae	Araneomorphae	Miturgidae	Miturga	`Leonora sp. 1`	46 km E. of Leonora, site 2b	08-10-07	-28.86220	121.79600
Araneae	Araneomorphae	Miturgidae	Miturga	`Leonora sp. 1`	46 km E. of Leonora, site 3b	07-10-07	-28.86500	121.79500
Araneae	Araneomorphae	Miturgidae	Miturga	`Leonora sp. 1`	46 km E. of Leonora, site 4a	06-10-07	-28.85990	121.80000
Araneae	Araneomorphae	Miturgidae	Miturga	`Leonora sp. 1`	46 km E. of Leonora, site 3a	07-10-07	-28.86410	121.79500
Araneae	Araneomorphae	Miturgidae	Miturga	`Leonora sp. 1`?	46 km E. of Leonora, site 2b	08-10-07	-28.86220	121.79600
Araneae	Araneomorphae	Oonopidae	Prethopalpus	framenaui	Nambi Station, Shady Well calcrete, bore litter trap 11	00/07/2010	-28.39830	122.19900
Araneae	Araneomorphae	Oonopidae	Prethopalpus	framenaui	Nambi Station, Shady Well calcrete, bore litter trap 20	00/07/2010	-28.38940	122.19900
Araneae	Araneomorphae	Oonopidae	Prethopalpus	framenaui	Nambi Station, Shady Well calcrete, bore litter trap 11	00/07/2010	-28.39830	122.19900
Araneae	Araneomorphae	Oxyopidae	Oxyopes	gratus	Yundamindra, site YMR3	01-01-80	-29.40000	122.46700
Araneae	Araneomorphae	Sparassidae	Neosparassus	`Leonora sp. 1`	46 km E. of Leonora, site 2a	08-10-07	-28.86130	121.79600
Araneae	Araneomorphae	Sparassidae	Neosparassus	`Leonora sp. 1`	46 km E. of Leonora, site 4b	05-10-07	-28.86080	121.80000
Araneae	Araneomorphae	Zodariidae	Habronestes	`Leonora sp. 1`	46 km E. of Leonora, site 2a	08-10-07	-28.86130	121.79600
Araneae	Araneomorphae	Zodariidae	Habronestes	`Leonora sp. 1`	46 km E. of Leonora, site 4	13-10-07	-28.86040	121.79900
Araneae	Araneomorphae	Zodariidae	Habronestes	`Leonora sp. 2`	46 km E. of Leonora, site 4	12-10-07	-28.86080	121.79900
Araneae	Araneomorphae	Zodariidae	Hastbronestes	`sp.`	SE. of Mt. Kilkenny, site 4A	00/10/2007	-29.07890	121.80800
Araneae	Araneomorphae	Zodariidae	Neostorena	`Leonora sp. 1`	46 km E. of Leonora, site 1a	09-10-07	-28.86070	121.79000
Araneae	Araneomorphae	Zodariidae	Neostorena	`Leonora sp. 1`	46 km E. of Leonora, site 1b	09-10-07	-28.86070	121.79100
Araneae	Araneomorphae	Zodariidae	Neostorena	`Leonora sp. 2`	46 km E. of Leonora, site 3b	07-10-07	-28.86500	121.79500
Araneae	Araneomorphae	Zodariidae	Storena	`sp.`	46 km E. of Leonora, site 1b	09-10-07	-28.86070	121.79100
Araneae	Araneomorphae	Zodariidae	`Leonora gen. 1`	`Leonora sp. 1`	46 km E. of Leonora, site 1a	09-10-07	-28.86070	121.79000
Araneae	Araneomorphae	Zodariidae	`Leonora gen. 1`	`Leonora sp. 1`	46 km E. of Leonora, site 2a	08-10-07	-28.86130	121.79600
Araneae	Araneomorphae	Zodariidae	`Leonora gen. 1`	`Leonora sp. 1`	46 km E. of Leonora, site 1b	09-10-07	-28.86070	121.79100
Araneae	Araneomorphae	Zodariidae	`Leonora gen. 1`	`Leonora sp. 1`	46 km E. of Leonora, site 2b	08-10-07	-28.86220	121.79600
Araneae	Araneomorphae	Zodariidae	`Leonora gen. 1`	`Leonora sp. 1`	46 km E. of Leonora, site 3b	07-10-07	-28.86500	121.79500
Pseudoscorp	iones	Chthoniidae	Tyrannochthonius	`Helens Bore`	Cardinia, 35 km NE. of Leonora	16-03-09	-28.78170	121.62200
Scolopendri	da	Scolopendridae	Cormocephalus	`sp. (fragment)`	Mertondale, 30 km ENE. of Leonora, site 01	04-09-08	-28.64940	121.55100
Scorpiones		Urodacidae	Urodacus	`gibson 1?`	SE. of Mt. Kilkenny, site 5A	00/10/2007	-29.08780	121.80800
Scorpiones		Urodacidae	Urodacus	`pale complex`	NW. of Lake Rebecca, Jump-Up Dam project, site 3	07-03-08	-29.74190	122.06200
Tetrameroce	rata	Pauropodidae	Pauropus	`sp. B02`	Cerebus Mine, ca. 80 km NE. of Leonora	18-10-11	-28.56620	122.28300

Appendix C Vertebrate fauna identified from the desktop assessment

Legend:

Current survey

A Stantec 2020 (Phase 1)
B Stantec 2020 (Phase 2)

Literature review

- C Mt Weld Rare Earths Project: Level 1 Flora, Vegetation and Fauna Survey (MWH 2014)
- D Lynas Corporation Ltd. Mt Weld Rare Earths Project: Level 1 Vegetation, Flora and Fauna Assessment (Outback Ecology 2013)
- E Mt Weld Rare Earths Project: Terrestrial Fauna Assessment (Outback Ecology 2011)
- F Moolart Well, Dogbolter and Erlistoun Gold Projects. Vertebrate Fauna Reconnaissance Survey and Habitat Assessment (Outback Ecology 2006)
- G Rosemont Gold Project Biological Assessment Survey Phases 1 & 2 (Halpern Glick Maunsell 1999)
- H Mt Weld Rare Earths Project: A review of terrestrial vertebrates (Ninox Wildlife Consulting 1992)

Database Searches

- I Birds Australia Atlas Database Search (Birdlife Australia 2020)
- J DBCA Threatened and Priority Fauna Database Search (DBCA 2020b)
- K Protected Matters Search Tool (DoAWE 2020b)
- L Naturemap (DBCA 2020c)
- M Atlas of Living Australia (ALA, 2023 #3980)

Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	Ε	F	Α	Н	1	J	K	L	М
Amphibians																	
Hylidae	Cyclorana maini	Sheep Frog														Х	
Hylidae	Cyclorana platycephala	Western Water-holding Frog														х	
Limnodynastidae	Neobatrachus kunapalari	Kunapalari Frog														Х	
Limnodynastidae	Neobatrachus sutor	Shoemaker Frog														х	
Limnodynastidae	Platyplectrum spenceri	Centralian Burrowing Frog														Х	
Cheluidae	Chelodina steindachneri	Flat-shelled Turtle									Х						
Birds																	
Acanthizidae	Acanthiza apicalis	Inland Thornbill			х	х		х		х	х		х			х	х
Acanthizidae	Acanthiza chrysorrhoa	Yellow-rumped Thornbill				Х	Х			Х	х	Х	Х			Х	Х
Acanthizidae	Acanthiza robustirostris	Slaty-backed Thornbill				Х					х	х	Х			х	х
Acanthizidae	Acanthiza uropygialis	Chestnut-rumped Thornbill					Х			Х	х	Х	Х			Х	х
Acanthizidae	Aphelocephala leucopsis	Southern Whiteface			Х	Х		х	Х		х	Х	Х			Х	х
Acanthizidae	Gerygone fusca	Western Gerygone					Х		Х		Х		Х			Х	
Acanthizidae	Pyrrholaemus brunneus	Redthroat			Х	Х					Х		Х			Х	Х
Acanthizidae	Smicrornis brevirostris	Weebill							Х	Х	Х	Х	Х			Х	х
Accipitridae	Accipiter cirrocephalus	Collared Sparrowhawk				Х							Х			Х	
Accipitridae	Accipiter fasciatus	Brown Goshawk									х		Х			Х	х
Accipitridae	Aquila audax	Wedge-tailed Eagle			Х	Х			Х	Х	х		Х			Х	Х
Accipitridae	Circus assimilis	Spotted Harrier											Х				
Accipitridae	Elanus caeruleus axillaris	Australian Black-shouldered Kite											Х			Х	
Accipitridae	Haliastur sphenurus	Whistling Kite											Х			Х	
Accipitridae	Hieraaetus morphnoides	Little Eagle									Х		Х				х
Aegothelidae	Aegotheles cristatus	Australian Owlet-nightjar									Х		Х			Х	х
Alcedinidae	Todiramphus pyrrhopygius	Red-backed Kingfisher									х		Х				х
Anatidae	Anas gracilis	Grey Teal			Х	х							Х			Х	
Anatidae	Anas rhynchotis	Australasian Shoveler											Х				

Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	Е	F	Α	Н	1	J	K	L	М
Anatidae	Anas superciliosa	Pacific Black Duck				Х						Х	Х			Х	
Anatidae	Aythya australis	Hardhead											Х			Х	
Anatidae	Biziura lobata	Musk Duck											х				
Anatidae	Chenonetta jubata	Australian Wood Duck											Х			Х	
Anatidae	Cygnus atratus	Black Swan			Х				Х				Х			Х	
Anatidae	Malacorhynchus membranaceus	Pink-eared Duck			х								х			Х	
Anatidae	Stictonetta naevosa	Freckled Duck											х			х	
Anatidae	Tadorna tadornoides	Australian Shelduck			х	х			Х			Х	Х			Х	
Anhingidae	Anhinga novaehollandiae	Australasian Darter											Х				
Apodidae	Apus pacificus	Fork-tailed Swift	Mi	IA											х		
Ardeidae	Ardea ibis	Cattle Egret											Х			Х	
Ardeidae	Ardea modesta	Eastern Great Egret	Mi	IA									Х		х		
Ardeidae	Ardea novaehollandiae	White-faced Heron											Х				х
Ardeidae	Ardea pacifica	White-necked Heron											Х			Х	
Artamidae	Artamus cinereus	Black-faced Woodswallow			Х		х	Х	Х	Х	Х		Х			Х	х
Artamidae	Artamus minor	Little Woodswallow											х			Х	
Artamidae	Artamus personatus	Masked Woodswallow											х			х	х
Burhinidae	Burhinus grallarius	Bush Stone-curlew								х							
Cacatuidae	Cacatua roseicapilla	Galah			х		х		Х	х	х		Х			Х	х
Cacatuidae	Nymphicus hollandicus	Cockatiel							Х	Х			Х			Х	х
Campephagidae	Coracina maxima	Ground Cuckoo-shrike									х	х	х			х	х
Campephagidae	Coracina novaehollandiae	Black-faced Cuckoo-shrike					х		Х		х		Х			Х	х
Campephagidae	Lalage tricolor	White-winged Triller				х					х		Х				
Caprimulgidae	Eurostopodus argus	Spotted Nightjar											Х			Х	х
Charadriidae	Elseyornis melanops	Black-fronted Dotterel							х		х	х	Х			х	
Charadriidae	Charadrius ruficapillus	Red-capped Plover			Х	х			Х				Х			Х	
Charadriidae	Charadrius veredus	Oriental Plover	Mi	IA								х			х		

Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	Е	F	Α	Н	ı	J	K	L	М
Charadriidae	Erythrogonys cinctus	Red-kneed Dotterel											Х			х	
Charadriidae	Thinornis cucullatus	Hooded Plover		P4											Х		
Charadriidae	Vanellus tricolor	Banded Lapwing									х		Х			х	
Cinclosomatidae	Cinclosoma castaneothorax	Chestnut-breasted Quail-thrush				Х											Х
Cinclosomatidae	Cinclosoma cinnamomeum	Cinnamon Quail-thrush			Х							Х					
Cinclosomatidae	Cinclosoma marginatum	Western Quail-thrush					Х				х		Х			х	
Climacteridae	Climacteris affinis	White-browed Treecreeper			х	х	х				х		х			х	х
Climacteridae	Climacteris rufus	Rufous Treecreeper															Х
Columbidae	Columba livia	*Domestic Pigeon											х		х	х	
Columbidae	Geopelia cuneata	Diamond Dove							Х				Х			х	
Columbidae	Ocyphaps lophotes	Crested Pigeon			х	х		Х			х	х	х			х	х
Columbidae	Phaps chalcoptera	Common Bronzewing						Х			Х		х			х	Х
Corvidae	Corvus bennetti	Little Crow					Х			х	Х	Х	х			х	Х
Corvidae	Corvus coronoides	Australian Raven						Х									Х
Corvidae	Corvus orru	Torresian Crow			х	Х			Х		Х		х			х	
Cracticidae	Cracticus nigrogularis	Pied Butcherbird			х	х	х		х	х	х		х			х	х
Cracticidae	Cracticus tibicen	Australian Magpie					Х	Х	Х		Х		Х			х	Х
Cracticidae	Cracticus torquatus	Grey Butcherbird									Х		х			х	Х
Cracticidae	Strepera versicolor	Grey Currawong									Х		х			х	Х
Cuculidae	Cacomantis pallidus	Pallid Cuckoo									Х		х			х	Х
Cuculidae	Chrysococcyx basalis	Horsfield's Bronze Cuckoo									Х	Х	х				
Cuculidae	Chrysococcyx osculans	Black-eared Cuckoo									Х		х		Х		Х
Dicaeidae	Dicaeum hirundinaceum	Mistletoebird							Х				х			х	Х
Dromaiidae	Dromaius novaehollandiae	Emu					Х		Х		Х		х			х	Х
Estrildidae	Taeniopygia guttata	Zebra Finch					х		х	х	Х	х	х			х	х
Falconidae	Falco berigora	Brown Falcon									Х		х			х	х
Falconidae	Falco cenchroides	Australian Kestrel			х						Х	х	х			х	Х

Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	Е	F	Α	Н	1	J	K	L	М
Falconidae	Falco longipennis	Australian Hobby				Х							Х			Х	Х
Falconidae	Falco peregrinus	Peregrine Falcon		S										Х		Х	
Hirundinidae	Cheramoeca leucosternus	White-backed Swallow				х							Х			Х	Х
Hirundinidae	Hirundo neoxena	Welcome Swallow				х			Х	Х		Х	Х			Х	Х
Hirundinidae	Petrochelidon ariel	Fairy Martin											Х			Х	
Hirundinidae	Petrochelidon nigricans	Tree Martin			х								Х			Х	
Laridae	Sterna nilotica	Gull-billed Tern	Mi	IA										х			
Laridae	Sterna hybrida	Whiskered Tern				х											
Locustellidae	Megalurus cruralis	Brown Songlark			Х								Х				
Locustellidae	Megalurus mathewsi	Rufous Songlark									Х		Х				
Maluridae	Malurus lamberti	Variegated Fairy-wren									х		х				х
Maluridae	Malurus leucopterus	White-winged Fairy-wren				х				Х	Х		Х			Х	Х
Maluridae	Malurus splendens	Splendid Fairy-wren			Х	х	х		Х	Х	Х		Х			Х	Х
Megapodiidae	Leipoa ocellata	Malleefowl	Vυ	VU								Х		Х	х		
Meliphagidae	Acanthagenys rufogularis	Spiny-cheeked Honeyeater								Х	Х	Х	Х			Х	Х
Meliphagidae	Anthochaera carunculata	Red Wattlebird										х	х				х
Meliphagidae	Certhionyx variegatus	Pied Honeyeater									х		х			х	
Meliphagidae	Epthianura albifrons	White-fronted Chat			Х							х	Х			Х	
Meliphagidae	Epthianura aurifrons	Orange Chat											Х			Х	
Meliphagidae	Epthianura tricolor	Crimson Chat									Х		Х			Х	Х
Meliphagidae	Gavicalis virescens	Singing Honeyeater			Х	х	х		Х		х		Х			Х	Х
Meliphagidae	Lichmera indistincta	Brown Honeyeater									х		Х			Х	Х
Meliphagidae	Manorina flavigula	Yellow-throated Miner			Х		х	х		Х			Х			Х	Х
Meliphagidae	Ptilotula ornatus	Yellow-plumed Honeyeater									Х						
Meliphagidae	Ptilotula penicillata	White-plumed Honeyeater											х				
Meliphagidae	Ptilotula plumula	Grey-fronted Honeyeater											х				х
Meliphagidae	Purnella albifrons	White-fronted Honeyeater									Х		х			х	х

Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	Е	F	Α	Н	ı	J	K	L	М
Meliphagidae	Sugomel niger	Black Honeyeater									Х		Х				Х
Meropidae	Merops ornatus	Rainbow Bee-eater					Х				Х		Х			х	
Monarchidae	Grallina cyanoleuca	Magpie-lark			х	Х	Х		х	Х	Х	Х	Х			х	х
Motacillidae	Anthus australis	Australian Pipit								Х	Х		Х				х
Motacillidae	Motacilla cinerea	Grey Wagtail	Mi	IA											Х		
Motacillidae	Motacilla flava	Yellow Wagtail	Mi	IA											Х		
Neosittidae	Daphoenositta chrysoptera	Varied Sittella								Х	Х	Х					
Oreoicidae	Oreoica gutturalis	Crested Bellbird			Х	Х	Х		х	Х	Х	Х	Х			х	х
Otididae	Ardeotis australis	Australian Bustard									Х	Х	Х			х	
Pachycephalidae	Colluricincla harmonica	Grey Shrike-thrush				Х			х	Х	Х	Х	Х			х	х
Pachycephalidae	Pachycephala inornata	Gilbert's Whistler			х	х											
Pachycephalidae	Pachycephala occidentalis	Western Whistler				Х											
Pachycephalidae	Pachycephala rufiventris	Rufous Whistler			Х	Х				Х	Х		Х			х	х
Pardalotidae	Pardalotus rubricatus	Red-browed Pardalote						Х				Х					х
Pardalotidae	Pardalotus striatus	Striated Pardalote										Х	Х			х	
Pardalotidae	Pardalotus striatus westraliensis															х	
Petroicidae	Melanodryas cucullata	Hooded Robin			х						Х	Х	Х			х	х
Petroicidae	Microeca fascinans	Jacky Winter											Х			х	х
Petroicidae	Petroica goodenovii	Red-capped Robin			Х	Х	Х				х		Х			х	х
Phalacrocoracidae	Phalacrocorax melanoleucos	Little Pied Cormorant											Х				
Phalangeridae	Trichosurus vulpecula	Common Brushtail Possum										Х				х	
Phasianidae	Coturnix pectoralis	Stubble Quail										Х	Х			х	
Phasianidae	Gallus gallus	*Red jungle fowl														х	
Podargidae	Podargus strigoides	Tawny Frogmouth											Х			х	х
Podicipedidae	Poliocephalus poliocephalus	Hoary-headed Grebe			Х							Х	Х			Х	х
Podicipedidae	Tachybaptus novaehollandiae	Australasian Grebe										х	х			х	
Pomatostomidae	Pomatostomus superciliosus	White-browed Babbler			Х	Х	Х		х		Х	Х	Х			Х	Х

Psithacidae Neophema bourkii Bourke's Parrot	Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	E	F	Α	Н		J	K	L	М
Pattacidae Neophema splendida Scarlet-chested Parrot Scarlet Scarl	Psittacidae	Melopsittacus undulatus	Budgerigar							Х	Х	Х		Х			Х	х
Partitacidae Parvipsitta porphyrocephala Purple-crowned Lorikeet Section Sec	Psittacidae	Neophema bourkii	Bourke's Parrot			Х	Х	х				Х		Х			Х	х
Pathacidae Pezoporus occidentalis Night Parrot En CR CR CR CR CR CR CR C	Psittacidae	Neophema splendida	Scarlet-chested Parrot														Х	
Pattacidae Platycercus varius Mulga Parrot	Psittacidae	Parvipsitta porphyrocephala	Purple-crowned Lorikeet											Х				
Pattacidae Platycercus zonarius Australian Ringneck Red-necked Avocet Red-necked Avocet Red-necked Avocet Red-necked Shirt Mini IA Red-necked S	Psittacidae	Pezoporus occidentalis	Night Parrot	En	CR											Х		
Pritacidae Polytelis alexandrae Princess Parrot Vu P4 V V V V V V V V V	Psittacidae	Platycercus varius	Mulga Parrot				Х	х	х	Х	х	х		х			Х	х
Psophodidae Psophodes occidentalis Chiming Wedgebill	Psittacidae	Platycercus zonarius	Australian Ringneck			Х	Х		Х			х					Х	х
Pfilionorhynchidae Pfilionorhynchus maculatus guttatus Western Bowerbird Scolopacidae Calidris ruficollis Red-necked Stint Mi IA Scolopacidae Tringa glareola Tringa glareola Strigidae Tringa glareola Tringa plagais Tringa plagais Tringa glareola Tringa plagais Tringa	Psittacidae	Polytelis alexandrae	Princess Parrot	Vυ	P4								Х		х	Х	Х	
Rallidae Fulica atra Eurasian Coot	Psophodidae	Psophodes occidentalis	Chiming Wedgebill											х				
Rallidae Tribonyx ventralis Black-tailed Native-hen	Ptilonorhynchidae		Western Bowerbird								х	х		х			х	
Recurvirostridae Cladorhynchus leucocephalus Banded Stilt	Rallidae	Fulica atra	Eurasian Coot											Х			Х	
Recurvirostridae Himantopus himantopus Black-winged Stilt	Rallidae	Tribonyx ventralis	Black-tailed Native-hen											х			Х	
Recurvirostridae Recurvirostra novaehollandiae Red-necked Avocet	Recurvirostridae	Cladorhynchus leucocephalus	Banded Stilt			Х								х			Х	
Rhipiduridae Rhipidura albiscapa Grey Fantail	Recurvirostridae	Himantopus himantopus	Black-winged Stilt											Х			Х	
Rhipiduridae Rhipidura leucophrys Willie Wagtail	Recurvirostridae	Recurvirostra novaehollandiae	Red-necked Avocet			х				х				Х			Х	
Scolopacidae Calidris acuminata Sharp-tailed Sandpiper Mi IA Scolopacidae Calidris melanotos Pectoral Sandpiper Mi IA Scolopacidae Calidris ruficollis Red-necked Stint Mi IA Scolopacidae Tringa glareola Wood Sandpiper Mi IA X X X X X X X X X X X X X X X X X X	Rhipiduridae	Rhipidura albiscapa	Grey Fantail											х			Х	
Scolopacidae Calidris melanotos Pectoral Sandpiper Mi IA	Rhipiduridae	Rhipidura leucophrys	Willie Wagtail			Х	х	х		Х	х	х		Х			Х	х
ScolopacidaeCalidris ruficollisRed-necked StintMiIAIAXXXScolopacidaeTringa glareolaWood SandpiperMiIAXXXXScolopacidaeTringa hypoleucosCommon SandpiperMiIAXXXXScolopacidaeTringa nebulariaCommon GreenshankMiIAXXXXStrigidaeNinox boobookSouthern BoobookMiIAXXXXThreskiornithidaePlegadis falcinellusGlossy IbisMiIAXXXX	Scolopacidae	Calidris acuminata	Sharp-tailed Sandpiper	Mi	IA											х		
ScolopacidaeTringa glareolaWood SandpiperMiIAXXXXScolopacidaeTringa hypoleucosCommon SandpiperMiIAXXXXScolopacidaeTringa nebulariaCommon GreenshankMiIAXXXXStrigidaeNinox boobookSouthern BoobookIAXXXXThreskiornithidaePlegadis falcinellusGlossy IbisMiIAIAXXX	Scolopacidae	Calidris melanotos	Pectoral Sandpiper	Mi	ΙA											Х		
ScolopacidaeTringa hypoleucosCommon SandpiperMiIAXIAXXScolopacidaeTringa nebulariaCommon GreenshankMiIAIAXXXStrigidaeNinox boobookSouthern BoobookIAXXXThreskiornithidaePlegadis falcinellusGlossy IbisMiIAIAXXX	Scolopacidae	Calidris ruficollis	Red-necked Stint	Mi	ΙA									х	х		Х	
Scolopacidae Tringa nebularia Common Greenshank Mi IA X <th< td=""><td>Scolopacidae</td><td>Tringa glareola</td><td>Wood Sandpiper</td><td>Mi</td><td>ΙA</td><td>Х</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>х</td><td>х</td><td></td><td>Х</td><td></td></th<>	Scolopacidae	Tringa glareola	Wood Sandpiper	Mi	ΙA	Х								х	х		Х	
Strigidae Ninox boobook Southern Boobook	Scolopacidae	Tringa hypoleucos	Common Sandpiper	Mi	IA		х								х	Х		
Threskiornithidae Plegadis falcinellus Glossy Ibis Mi IA x x	Scolopacidae	Tringa nebularia	Common Greenshank	Mi	IA									Х	х	Х		
	Strigidae	Ninox boobook	Southern Boobook															х
Threskiornithidae Threskiornis spinicollis Straw-necked Ibis x	Threskiornithidae	Plegadis falcinellus	Glossy Ibis	Mi	IA									Х	х			
	Threskiornithidae	Threskiornis spinicollis	Straw-necked Ibis														Х	

Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	Е	F	Α	Н	I	J	K	L	М
Turnicidae	Turnix velox	Little Button-quail							Х	Х	Х		Х			Х	Х
Mammals																	
Bovidae	Bos taurus	*European Cattle			х	х	х		х	х	х	х				х	
Bovidae	Capra hircus	*Goat							Х		х				х		
Bovidae	Ovis aries	*Sheep							Х			Х					
Camelidae	Camelus dromedarius	*Camel						х			х	Х			х		х
Canidae	Canis Iupus	*Dog/dingo				٨			Х		Х	Х			Х		
Canidae	Vulpes vulpes	*Red Fox			Х					Х	Х	Х			Х		
Dasyuridae	Antechinomys laniger	Kultarr			Х	х										Х	
Dasyuridae	Dasycercus blythi	Brush-tailed Mulgara		P4										Х		х	
Dasyuridae	Dasyurus geoffroii	Chuditch	Vυ	VU											х		
Dasyuridae	Ningaui ridei	Wongai Ningaui														Х	
Dasyuridae	Ningaui yvonneae	Southern Ningaui														х	
Dasyuridae	Pseudantechinus woolleyae	Woolley's Pseudantechinus			Х	х		х									
Dasyuridae	Sminthopsis crassicaudata	Fat-tailed Dunnart									Х					Х	
Dasyuridae	Sminthopsis dolichura	Little long-tailed Dunnart														Х	Х
Dasyuridae	Sminthopsis fuliginosus	Sooty/Dusky Dunnart															х
Dasyuridae	Sminthopsis hirtipes	Hairy-footed Dunnart														Х	х
Dasyuridae	Sminthopsis longicaudata	Long-tailed Dunnart		P4	Х	х								Х		Х	
Dasyuridae	Sminthopsis macroura	Stripe-faced Dunnart			Х	Х					Х					Х	
Dasyuridae	Sminthopsis ooldea	Ooldea Dunnart			Х	х											
Emballonuridae	Taphozous hilli	Hill's Sheathtail Bat			х	х		х									
Equidae	Equus asinus	*Donkey													Х		
Equidae	Equus caballus	*Horse			Х				Х		Х				Х	Х	
Felidae	Felis catus	*Cat			Х					Х	Х	Х			Х		
Leporidae	Oryctolagus cuniculus	*Rabbit			х	х	х	х	х	Х	х				х	х	
Macropodidae	Lagostrophus fasciatus fasciatus	Banded Hare-wallaby		VU										х		х	

Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	Е	F	Α	Н	1	J	K	L	М
Macropodidae	Macropus fuliginosus	Western Grey Kangaroo			Х	Х											
Macropodidae	Osphranter robustus	Euro			Х	Х	х	Х	Х	Х						Х	
Macropodidae	Osphranter rufus	Red Kangaroo				Х			Х	х	Х					Х	
Molossidae	Austronomus australis	White-striped Free-tailed Bat			х	Х											
Molossidae	Ozimops kitcheneri	South-western Free-tailed Bat			Х			Х	Х								
Molossidae	Ozimops petersi	Inland Free-tailed Bat			Х	Х											
Muridae	Mus musculus	*House Mouse							х		х				Х	х	х
Muridae	Notomys alexis	Spinifex Hopping-mouse														Х	
Muridae	Pseudomys hermannsburgensis	Sandy Inland Mouse				Х				х		Х				Х	х
Muridae	Rattus rattus	*Black Rat							Х								
Myrmecobiidae	Myrmecobius fasciatus	Numbat	En	EN								Х		Х		Х	
Tachyglossidae	Tachyglossus aculeatus	Short-beaked Echidna			х	Х			Х								
Thylacomyidae	Macrotis lagotis	Bilby	Vυ	VU										Х		Х	
Vespertilionidae	Chalinolobus gouldii	Gould's Wattled Bat			х	Х		х	Х								
Vespertilionidae	Chalinolobus morio	Chocolate Wattled Bat														Х	
Vespertilionidae	Nyctophilus geoffroyi	Lesser Long-eared Bat			х	Х		х								Х	х
Vespertilionidae	Scotorepens balstoni	Inland Broad-nosed Bat			х	х		х	х								
Vespertilionidae	Vespadelus finlaysoni	Finlayson's Cave Bat			Х	Х		Х				Х				Х	
Reptiles																	
Agamidae	Ctenophorus caudicinctus	Ring-tailed Dragon								х		Х				Х	Х
Agamidae	Ctenophorus fordi	Mallee Sand Dragon				Х										Х	
Agamidae	Ctenophorus isolepis	Military Dragon										Х				Х	
Agamidae	Ctenophorus isolepis gularis															Х	х
Agamidae	Ctenophorus maculatus	Spotted Military Dragon					х									х	
Agamidae	Ctenophorus nuchalis	Central Netted Dragon								х						х	х
Agamidae	Ctenophorus reticulatus	Western Netted Dragon									х					х	х
Agamidae	Ctenophorus salinarum	Salt Pan Dragon														Х	х

Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	E	F	Α	Н	1	J	K	L	Μ
Agamidae	Ctenophorus scutulatus				Х	Х	Х		Х			Х				Х	
Agamidae	Diporiphora amphiboluroides	Mulga Dragon			Х												Х
Agamidae	Moloch horridus	Thorny Devil														х	
Agamidae	Pogona minor					٨										Х	х
Agamidae	Pogona minor minor	Western Bearded Dragon								Х	Х					Х	Х
Agamidae	Tympanocryptis pseudopsephos	Goldfields Pebble-mimic Dragon			Х	х										х	Х
Carphodactylidae	Nephrurus vertebralis				х						х	х				х	
Carphodactylidae	Nephrurus wheeleri	Nephrurus wheeleri				х											
Carphodactylidae	Underwoodisaurus milii	Southern Barking Gecko									х					х	Х
Diplodactylidae	Diplodactylus conspicillatus	Variable Fat-tailed Gecko									х	Х					Х
Diplodactylidae	Diplodactylus granariensis											Х				Х	
Diplodactylidae	Diplodactylus pulcher				Х	Х					Х	Х				Х	Х
Diplodactylidae	Lucasium squarrosum											Х				Х	х
Diplodactylidae	Rhynchoedura ornata	Western Beaked Gecko			х	Х										Х	х
Diplodactylidae	Strophurus assimilis	Goldfields Spiny-tailed Gecko									х					Х	
Diplodactylidae	Strophurus elderi															Х	
Diplodactylidae	Strophurus strophurus	Western Spiny-tailed Gecko															Х
Diplodactylidae	Strophurus wellingtonae					Х										Х	Х
Elapidae	Brachyurophis fasciolatus fasciolatus	Narrow-banded Shovel-nosed Snake														х	
Elapidae	Furina ornata	Moon Snake														х	
Elapidae	Parasuta monachus	Monk Snake														Х	х
Elapidae	Pseudechis australis	Mulga Snake														Х	
Elapidae	Pseudechis butleri	Spotted Mulga Snake														Х	
Elapidae	Pseudonaja mengdeni	Western Brown Snake				Х										Х	Х
Elapidae	Pseudonaja modesta	Ringed Brown Snake														Х	Х
Elapidae	Simoselaps bertholdi	Jan's Banded Snake														Х	

Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	Е	F	Α	Н	1	J	K	L	М
Elapidae	Suta fasciata	Rosen's Snake														Х	
Gekkonidae	Gehyra crypta																х
Gekkonidae	Gehyra purpurascens															Х	х
Gekkonidae	Gehyra variegata				х	Х					х	Х				х	х
Gekkonidae	Heteronotia binoei	Bynoe's Gecko									Х					Х	х
Pygopodidae	Delma nasuta															х	
Pygopodidae	Lialis burtonis															х	
Pygopodidae	Pygopus nigriceps															х	х
Pythonidae	Antaresia stimsoni stimsoni										х	Х					
Scincidae	Cryptoblepharus plagiocephalus										Х					х	х
Scincidae	Ctenotus ariadnae															х	
Scincidae	Ctenotus calurus															х	
Scincidae	Ctenotus grandis											Х				х	х
Scincidae	Ctenotus hanloni											Х				х	
Scincidae	Ctenotus helenae															х	
Scincidae	Ctenotus inornatus																Х
Scincidae	Ctenotus leonhardii	Common Desert Ctenotus			х	Х					Х					Х	х
Scincidae	Ctenotus piankai											Х				х	
Scincidae	Ctenotus schomburgkii	Barred Wedge-snouted Ctenotus			х	Х											
Scincidae	Ctenotus severus											Х				Х	
Scincidae	Ctenotus uber										Х					х	х
Scincidae	Cyclodomorphus melanops	Slender Blue-tongue														х	
Scincidae	Egernia depressa	Southern Pygmy Spiny-tailed Skink			х	х					х					х	
Scincidae	Egernia formosa					٨											
Scincidae	Eremiascincus richardsonii	Broad-banded Sand Swimmer									Х					х	Х
Scincidae	Lerista bipes											Х				Х	Х

Family	Species Name	Common Name	EPBC	WA	Α	В	С	D	Е	F	Α	Н	ı	J	K	L	Μ
Scincidae	Lerista desertorum										Х						Х
Scincidae	Lerista distinguenda															Х	
Scincidae	Lerista muelleri										Х	Х					
Scincidae	Lerista timida															Х	Х
Scincidae	Liopholis inornata	Desert Skink															Х
Scincidae	Liopholis kintorei	Great Desert Skink	Vυ	VU										Х		Х	
Scincidae	Liopholis striata	Night Skink									Х					Х	х
Scincidae	Menetia greyii				Х	Х					Х					Х	Х
Scincidae	Morethia butleri				Х											Х	Х
Scincidae	Tiliqua multifasciata	Central Blue-tongue										Х				Х	
Scincidae	Tiliqua occipitalis	Western Bluetongue														Х	
Typhlopidae	Anilios bicolor	Dark-spined Blind Snake				Х											
Typhlopidae	Anilios hamatus	Pale-headed Blind Snake															Х
Typhlopidae	Anilios waitii	Beaked Blind Snake															Х
Varanidae	Varanus caudolineatus				Х	Х					Х					Х	Х
Varanidae	Varanus giganteus	Perentie			Х												
Varanidae	Varanus eremius	Pygmy Desert Monitor														х	
Varanidae	Varanus gouldii	Sand Monitor					х		Х							Х	
Varanidae	Varanus panoptes	Yellow-spotted Monitor			Х	Х										Х	
Varanidae	Varanus panoptes panoptes															Х	
Varanidae	Varanus panoptes rubidus						х				х	Х					Х
Varanidae	Varanus tristis	Racehorse Monitor														Х	Х

^{*}Introduced species

[^]Species captured on camera during targeted regional survey

Appendix D Fauna habitat assessments

	Name	Site A	Site Photograph					
Site	Habitat Type	Shrub plain						
	Landform	Sandy stony plain						
	Slope	Flat						
	Aspect	Flat						
Habitat Features	Water Presence	None						
redities	Woody Debris	Very common						
	Tree Hollows (>50 cm)	None						
	Condition	Good						
Condition	Disturbance Type	Road access tracks, cattle grazing						
	Fire Age	Very old						
	Rock	Moderate						
Ground Cover	Soil	Evenly spread						
	Leaf Litter	Scarce						
	Туре	Ironstone						
Rocks	Size	Pebbles						
ROCKS	Abundance	Moderate	Vegetation Description					
	Exposed Bedrock	None	Acacia tetragonophylla and Santalum spiculatum tall open shrubland over					
Soil	Туре	Clay loam	Eremophila youngii subsp. youngii scattered shrubs over Ptilotus obovatus scattered low shrubs					
3011	Colour	Red-brown						

	Name	Site B	Site Photograph
Site	Habitat Type	Stony rise	
	Landform	Hillcrest Upper Hillslope	
	Slope	Moderate (21-45°)	
	Aspect	North	
Habitat Features	Water Presence	None	
redities	Woody Debris	Very common	
	Tree Hollows (>50 cm)	None	
	Condition	Good	
Condition	Disturbance Type	Road access tracks, cattle grazing, mining exploration	
_	Fire Age	Very old	
	Rock	Very common	
Ground Cover	Soil	Few small patches	
	Leaf Litter	Few small patches	
	Туре	Ironstone	
Daratio	Size	Small rocks	
Rocks	Abundance	Very common	Vegetation Description
	Exposed Bedrock	Negligible	
Coll	Туре	Sandy loam	Hakea preissii and Acacia sp. low open woodland over Senna sp. and Sida sp. shrubland over Maireana sp. and Ptilotus obovatus low open shrubland
Soil	Colour	Red-brown	
Site	Name	Site C	Site Photograph

		Г					
	Habitat Type	Mulga on clay loam					
	Landform	Sandy stony plain					
	Slope	Flat					
	Aspect	Flat					
Habitat Features	Water Presence	None					
rodroros	Woody Debris	Very common					
	Tree Hollows (>50 cm)	None					
	Condition	Good					
Condition	Disturbance Type	Road access tracks, cattle grazing					
	Fire Age	Very old					
	Rock	Rare					
Ground Cover	Soil	Evenly spread					
20101	Leaf Litter	Few small patches					
	Туре	Quartz					
	Size	Gravel					
Rocks	Abundance	Rare					
	Exposed Bedrock	None					
	Туре	Clay loam					
Soil	Colour	Red-brown					



Vegetation Description

Acacia aneura low woodland over Acacia tetragonophylla tall open shrubland over Eremophila grantica low open shrubland.

	Name	Site D	Site Photograph
Site	Habitat Type	Mulga on clay loam	
	Landform	Sandy stony plain	
	Slope	Flat	
	Aspect	Flat	
Habitat Features	Water Presence	None	
	Woody Debris	Very common	
	Tree Hollows (>50 cm)	None	
	Condition	Very good	
Condition	Disturbance Type	Cattle grazing, road access tracks	
	Fire Age	Very old	
	Rock	None	
Ground Cover	Soil	Evenly spread	
	Leaf Litter	Many small patches	
	Туре	Quartz	
Rocks	Size	Negligible	
ROCKS	Abundance	None	Vegetation Description
	Exposed Bedrock	None	Acquire anough low open forest ever Acquire remules a very remules a tell shrublend
Cail	Туре	Clay loam	Acacia aneura low open forest over Acacia ramulosa var. ramulosa tall shrubland over Eremophila?latrobei subsp. filiformis and Eremophila margarethae low open
Soil	Colour	Red-brown	shrubland

	Name	H01	Site Photograph				
Site	Habitat Type	Outcropping					
	Landform	Hillcrest upper hillslope					
	Slope	Medium					
	Aspect	North					
Habitat Features	Water Presence	None					
	Woody Debris	Very common					
	Tree Hollows (>50 cm)	None	人 经验是一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种一种				
	Condition	Good	是一种的一种。 第一种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种				
Condition	Disturbance Type	Other					
	Fire Age	Very old					
	Rock	Very common	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个				
Ground Cover	Soil	Few small patches					
	Leaf Litter	Few small patches					
	Туре	Ironstone	The state of the s				
	Size	Large rocks					
Rocks	Abundance	Very common	Vegetation Description				
	Exposed Bedrock	Minor outcropping					
6 . 1	Туре	Sandy loam	Acacia aneura, Acacia pteraneura, Acacia ayersiana low woodland over Acacia minyura tall scattered shrubs over Eremophila sp., Maireana sp. and Ptilotus				
Soil	Colour	Orange	obovatus low open shrubland				

	Name	H02	Site Photograph
Site	Habitat Type	Mulga on stony plain	
	Landform	Stony Plain	
	Slope	Flat	
	Aspect	Flat	
Habitat Features	Water Presence	None	
	Woody Debris	Very common	
	Tree Hollows (>50 cm)	None	
	Condition	Good	
Condition	Disturbance Type	Other, road access tracks, cattle grazing	
	Fire Age	Very old	
	Rock	Very common	
Ground Cover	Soil	Many large patches	
	Leaf Litter	Few small patches	
	Туре	Ironstone	
Rocks	Size	Gravel	
ROCKS	Abundance	Very common	Vegetation Description
	Exposed Bedrock	None	
Soil	Туре	Clay loam	Acacia aneura low woodland over Acacia tetragonophylla open shrubland over Acacia caesaneura, Maireana sp. and Ptilotus obovatus low scattered shrubs
3011	Colour	Red-brown	

	Name	Н03	Site Photograph
Site	Habitat Type	Mulga on clay loam	
	Landform	Sandy stony plain	
	Slope	Flat	
	Aspect	Flat	
Habitat Features	Water Presence	None	
	Woody Debris	Very common	
	Tree Hollows (>50 cm)	None	
	Condition	Very good	
Condition	Disturbance Type	Cattle grazing	
	Fire Age	Very old	
	Rock	Rare	
Ground Cover	Soil	Evenly spread	
	Leaf Litter	Few small patches	
	Туре	Ironstone	
Do oko	Size	Negligible	不是他们就在1000年以下,这种自己的是一个是一个是一个是一个是一个是一个一个。
Rocks	Abundance	Rare	Vegetation Description
	Exposed Bedrock	None	Acacia aneura, Acacia caesaneura and Acacia aptaneura low open forest over
Cail	Туре	Clay loam	Acacia tetragonophylla and Santalum spicatum tall open shrubland over Ptilotus
Soil	Colour	Red-brown Obovatus scattered low shrub:	obovatus scattered low shrubs

	Name	H04	Site Photograph
Site	Habitat Type	Mulga on clay loam	CONTROL OF THE STATE OF THE STA
	Landform	Plain	
	Slope	Flat	
	Aspect	Flat	
Habitat Features	Water Presence	None	
	Woody Debris	Very common	
	Tree Hollows (>50 cm)	None	
	Condition	Very good	The second secon
Condition	Disturbance Type	Road access tracks, cattle grazing	
	Fire Age	Very old	
	Rock	None	
Ground Cover	Soil	Evenly spread	
	Leaf Litter	Many small patches	
	Туре	None discernible	
Pooks	Size	None	
Rocks	Abundance	None	Vegetation Description
	Exposed Bedrock	None	Acacia aneura low open woodland over Acacia tetragonophylla and Acacia
Soil	Туре	Clay loam	ramulosa subsp. ramulosa tall scattered shrubs over Eremophila granitica low open
3011	Colour	Red-brown	shrubland over Rhodanthe charsleyae and Calandrinia creethiae open herbland

	Name	H05		
Site	Habitat Type	Sparse shrubland on heavy clay		
	Landform	Drainage area floodplain		
	Slope	Flat		
	Aspect	Flat		
Habitat Features	Water Presence	None		
10010103	Woody Debris	Very common		
	Tree Hollows (>50 cm)	None		
	Condition	Good		
Condition	Disturbance Type	None discernible		
	Fire Age	Very old		
	Rock	None		
Ground Cover	Soil	Evenly spread		
	Leaf Litter	Scarce		
	Туре	None discernible		
Rocks	Size	None		
	Abundance	None		
	Exposed Bedrock	None		
C - 11	Туре	Silty clay loam		
Soil	Colour	Red-brown		

Site Photograph



Vegetation Description

Acacia aneura, Acacia pteraneura and Acacia aptaneura low open woodland over Acacia tetragonophylla tall open shrubland over Rhodanthe charsleyae and Sclerolaena spp. open herbland

	Name	H06	Site Photograph
Site	Habitat Type	Low mulga on clay loam	
	Landform	Sandy stony plain	
	Slope	Flat	
	Aspect	Flat	
Habitat Features	Water Presence	None	
	Woody Debris	Very common	
	Tree Hollows (>50 cm)	None	
	Condition	Very good	
Condition	Disturbance Type	Cattle grazing	
	Fire Age	Very old	
	Rock	Very common	
Ground Cover	Soil	Evenly spread	
	Leaf Litter	Many small patches	
	Туре	Quartz	
5	Size	Pebbles	
Rocks	Abundance	Very common	Vegetation Description
	Exposed Bedrock	None	
0.11	Туре	Clay loam	Acacia aneura, Acacia caesaneura and Acacia aptaneura low open forest over Acacia tetragonophylla and Santalum spicatum tall open shrubland over Ptilotus
Soil	Colour	Red-brown	obovatus scattered low shrubs

Appendix E Vertebrate fauna recorded per systematic site

		Conservation Listing				
Species	Common Name	BC Act EPBC Act	A	В	С	D
Aves						
Acanthizidae						
Acanthiza apicalis	Inland Thornbill		1	1		
Acanthiza chrysorrhoa	Yellow-rumped Thornbill			4		
Acanthiza robustirostris	Slaty-backed Thornbill				4	
Aphelocephala leucopsis	Southern Whiteface			1	39	16
Pyrrholaemus brunneus	Redthroat			·	1	
Campephagidae					·	
Lalage tricolor	White-winged Triller		1			
Climacteridae			'			
Climacteris affinis	White-browed Treecreeper				4	1
Columbidae	Willie-blowed freecreeper				4	4
	Crastad Diggan				2	
Ocyphaps lophotes	Crested Pigeon				2	
Corvidae	T					,
Corvu orru	Torresian Crow					6
Cracticidae						
Cracticus nigrogularis	Pied Butcherbird				4	
Locustellidae					I I	
Megalurus cruralis	Brown Songlark		1			1
Maluridae						
Malurus leucopterus	White-winged Fairy-wren		4			
Malurus splendens	Splendid Fairy-wren		4			
Meliphagidae						
Epthianura albifrons	White-fronted Chat			1	1	
Gavicalis virescens	Singing Honeyeater		3		4	1
Manorina flavigula	Yellow-throated Miner				3	
Oreoicidae						
Oreoica gutteralis	Crested Bellbird		8	3	4	6
Pachycephalidae						
Colluricincla harmonica	Grey Shrike-thrush			2		
Pachycephala inornata	Gilbert's Whistler		1			
Pachycephala occidentalis	Western Whistler		1			
Pachycephala rufiventris	Rufous Whistler					1
Petroicidae						
Melanodryas cucullata	Hooded Robin					1
Petroica goodenovii	Red-capped Robin		1	1	10	4
Psittacidae						
Platycercus zonarius	Australian Ringneck		1	8		
Psophodidae	Olas I I I I I I I I I I I I I I I I I I I					
Cinclosoma castaneothorax	Chestnut-breasted Quail-thrush					4
Rhipiduridae	Willia Wastail		1		1	
Rhipidura leucophrys Mammalia	Willie Wagtail		I		l l	
Bovidae						
	*Europaan Cattle					.,
Bos taurus	*European Cattle		4	X	X	X

	Common Name	Conservation Listing					
Species		BC Act	EPBC Act	A	В	С	D
Dasyuridae							
Antechinomys laniger	Kultar			1		1	
Pseudantechinus woolleyae	Woolley's Pseudantechinus				1		
Sminthopsis longicaudata	Long-tailed Dunnart	P4			2		
Sminthopsis macroura	Stripe-faced Dunnart			7	10	6	5
Sminthopsis ooldea	Ooldea Dunnart			1		1	
Emballonuridae							
Taphozous hilii	Hill's Sheathtail Bat					X	X
Equidae							
Equus caballus	*Horse			Χ	X		X
Felidae							
Felis catus	*Cat					X	
Leporidae						^	
Oryctolagus cuniculus	*Rabbit			V	V		V
Macropodidae	Raddii			X	X	X	X
Macropus fuliginosus	Western Grey Kangaroo						1
Molossidae	Western Grey Kangaroo						
Austronomus australis	White-striped Free-tailed Bat			V	V	V	V
Ozimops petersi	Inland Free-tailed Bat			X	X	X	X
	Irilaria riee-ialiea bai					Х	X
Tachyglossia gaylogtus	Short-beaked Echidna						
Tachyglossus aculeatus Vespertilionidae	Short-beaked Echiana				2	I	
Chalinolobus gouldii	Gould's Wattled Bat			V	V.	V	
Nyctophilus geoffroyi	Lesser Long-eared Bat			X	X	X	X
Scotorepens balstoni	Inland Broad-nosed Bat			X	X	X	X
Vespadelus finlaysoni	Finlayson's Cave Bat			Х		X	X
Reptilia	Fillidysofts Cave Bai						X
Agamidae							
Ctenophorus fordi	Mallee Sand Dragon					0	
Diporiphora amphiboluroides	Maliee 3ana Diagon					2	1
Tympanocryptis pseudopsephos				1	,		I
Carphodactylidae				ı	6		
Nephrurus vertebralis							1
Nephrurus wheeleri	Nephrurus wheeleri			0			I
Diplodactylidae	Nephiloros wheelen			2			
Diplodactylus pulcher				2	1	1	1
Rhynchoedura ornata				3	 	1	I
Strophurus wellingtonae				1		3	
Elapidae				ı			
Pseudonaja mengdeni	Western Brown Snake						,
rseudonaja mengaeni Gekkonidae	MESIGITI DIOWIT STICKE						ı
Gekkoniade Gehyra variegata					2	0	0
Scincidae					3	2	2
Scinciade Ctenotus leonhardii					-	,	
					5	6	
Ctenotus schomburgkii						I	9

Spacias	Common Name	Conservation Listing		_	В		
Species		BC Act	EPBC Act	A	В	<u> </u>	D
Egernia depressa				2		2	4
Menetia greyii					1		
Morethia butleri				1	1		1
Typhlpidae							
Anilios bicolor					1	1	
Varanidae							
Varanus caudolineatus						2	
Varanus panoptes					2	1	7

Appendix F Night Parrot analysis results

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Email: nigel.jackett@gmail.com

ABN 28 786 512 608

10 October 2020

Melissa Jensen Senior Zoologist Stantec Australia Pty Ltd

Ref: 30003176

Dear Melissa,

Please find below the results of Stantec's bioacoustic surveys targeting the Night Parrot in September 2020 at Mt Weld.

Survey and analysis background

Stantec Australia conducted targeted sampling for the Night Parrot (*Pezoporus occidentalis*) in September 2020 at Mt Weld. Song Meter 4 (Wildlife Acoustics, MA, USA) acoustic recorders were deployed across 4 sites, and recorded a combined total of 28 nights of data (Table 1). Files were provided in WAV format (2,005 files; 107 GB). Each recorder was programmed to record continuously from sunset to sunrise (approximately 12 hours per night).

The analysis was undertaken using the software Kaleidoscope Pro v5.2.1, targeting the frequency range of 1000 – 4000 Hz for which all known calls of the Night Parrot are distributed within (Jackett et al. 2017; Murphy et al. 2017; Leseberg et al. 2019). Searching for calls over a large frequency range such as this is likely to produce a high number of falsepositive results due to many other bird species calling at similar frequencies but is a necessary procedure in order to capture the potential repertoire of Night Parrot.

Potential Night Parrot calls detected during the analysis were compared to a reference library comprising 897 Night Parrot calls from Western Australia. This library consists of calls recorded at sites where Night Parrots have been confirmed using visual means and is therefore considered of high reliability. The library also comprises multiple examples of all known call types from Western Australia (Leseberg et al. 2019).

Kaleidoscope Pro search parameters were optimised using a random selection of 250 Night Parrot call examples manually detected from both Great Sandy Desert and East Murchison datasets, of which 205 (82.0%) were automatically detected. Calls not detected were typically extremely faint. Thus, the probability of non-detection of a true-positive call was 18.0%; two true-positive calls was 3.2%; etc. Of the data tested, the median number of consecutive (spaced at <5 minutes apart) calls in a sequence when Night Parrots were recorded was 5 (1–34, n=29). The probability of at least one call being detected within a sequence of median length (assuming a Night Parrot was not stationary at the distal edge of a unit's recording radius when calling) was >99.9%.

Table 1. Recordings analysed from September 2020 survey

Recording unit name	Recording start date (PM)	Recording end date (AM)	Total recording nights
MINI01_0915	15/09/2020	22/09/2020	7
MINI02_0915	15/09/2020	22/09/2020	7
MINI03_0915	15/09/2020	22/09/2020	7
MINI04_0915	15/09/2020	22/09/2020	7
		Total	28

Results

A total of 8,273 Kaleidoscope detections were manually assessed for Night Parrot vocalisations, and as expected, a high percentage (100% of all calls in this analysis) were false-positives.

No calls attributable to the Night Parrot were detected during the analysis.

Analysis remarks

The recordings were typically of good quality, but wind interfered for the majority of the night on the nights of the 16^{th} and 19^{th} of September across all sites. Low-level generator noise was regularly detected at unit MINI04_0915, but only potentially interfered with (i.e. masked) vocalisations below ~1800 Hz (and therefore at the lower frequency end of Night Parrot vocalisations).

The vocalisations of non-target bird species were detected across all nights at all sites. It is therefore expected that vocalisations of Night Parrots would similarly have been detected had they occurred within a reasonable distance (i.e. several hundred metres) of a unit.

If you have any questions or comments relating to the analysis, don't hesitate to be in touch.

Sincerely,

Nigel Jackett

Selected references

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Pezoporus occidentalis from the East Murchison, Western Australia. Australian Field Ornithology, 34, 144-150.

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