



ENVIRONMENTAL IMPACT ASSESSMENT

Lots 5, 7 and 9 Oxley Road,
Lots 10 and 12 Rowley Road
and Lot 5066 Kargotich Road
FORRESTDAL

November 2017



Environmental Impact Assessment

Lots 5, 7 and 9 Oxley Rd, Lots 10 and 12 Rowley Rd, Forrestdale, Western Australia

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1. INTRODUCTION

1.1 Background

A groups of landowners, through town planners Gray and Lewis Landuse Planners, and Turner Master Planners, have commissioned Bioscience to undertake an Environmental Assessment of Lots 5, 7, and 9 Oxley Road, Lots 10 and 12 Rowley Road and 5066 Kargotich Road, in Forrestdale. The purpose of which is to identify any environmental constraints of a proposed rezoning of the land from “rural living” as per the Metropolitan Regional Scheme and the City of Armadale Town Planning Scheme No.4, to that of “general industry” by way of an MRS, then TPS amendment. This report is in accordance with the Environment Protection Authority (EPA) *Guidance Statement Number 33 – Environmental Guidance for Planning and Development* (2008). The aim of the work is to the identify biophysical factors, particularly those that may impede rezoning and land development, pollution management issues and issues relating to aesthetic, cultural and social surroundings of the land.

1.2 Site Location and Land Use

The study site consists of 6 Lots totalling around 190ha which is located approximately 25kms south, south east of Perth CBD and around 16km east of the coast (Figure 1). The land is currently being used for agriculture purposes, specifically grazing cattle and horses. This land use has not changed over the last 50 years.

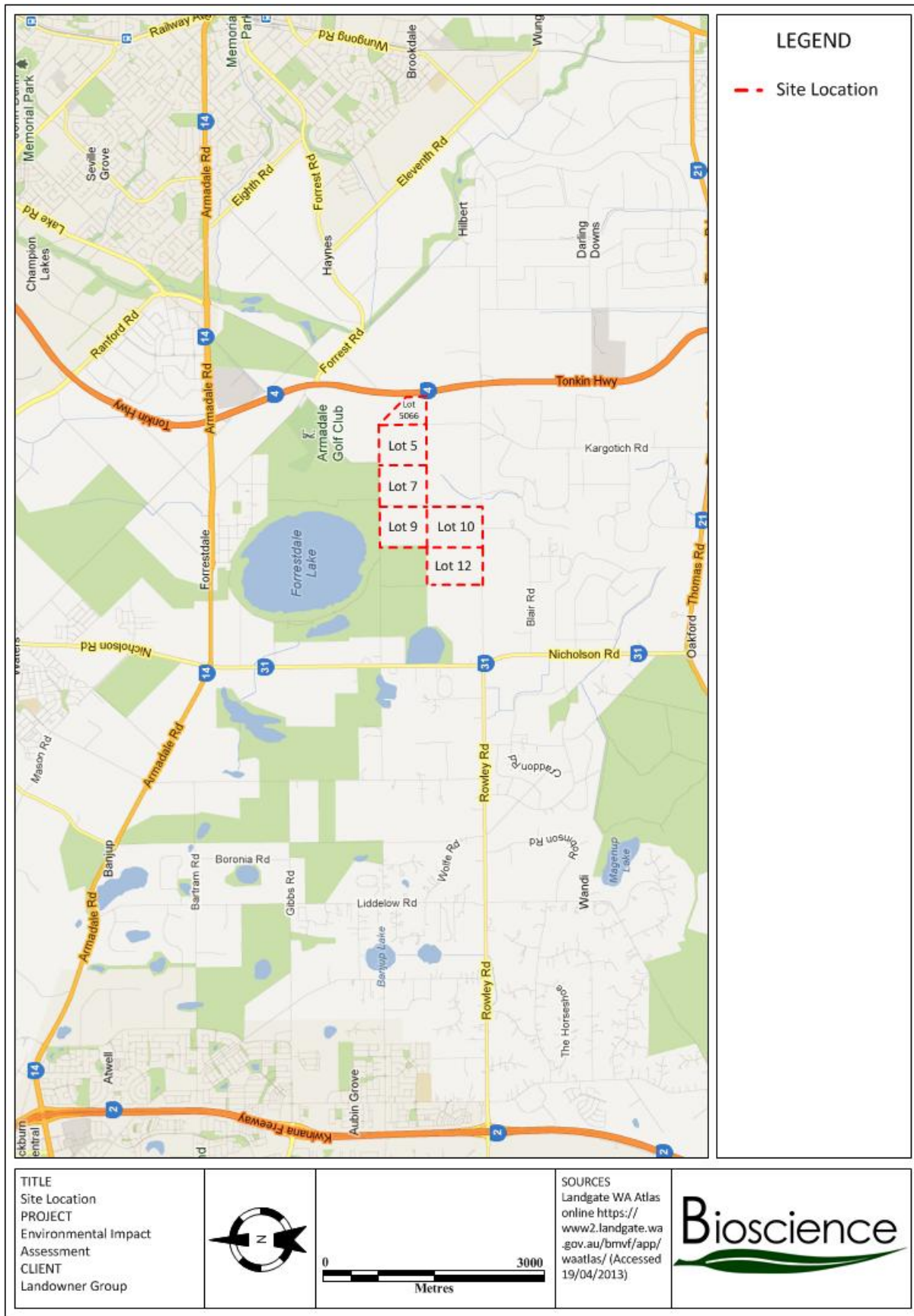


Figure 1: Site Location



1.3 Purpose and Scope of Works

This report is in accordance with the Environment Protection Authority (EPA) *Guidance Statement Number 33 – Environmental Guidance for Planning and Development* (2008). The aim of which is to identify the biophysical factors that may impede rezoning and land development, pollution management issues and issues relating to aesthetic, cultural and social surroundings of the land.

An Environmental Assessment (EA) of Lots 5, 7, and 9 Oxley Road, Lots 10 and 12 Rowley Road and 5066 Kargotich Road has been commissioned by the landowners for the rezoning to Light Industrial, consistent with the Western Australian Planning Commissions *Economic and Employment Land Strategy: Light Industrial* EELS (April 2012)

The objectives of the EA are to:

- Provide information on key environmental characteristics within the subject site and surrounding area.
- Identify the environmental factors and constraints that affect the development of the subject site.
- Recommend appropriate management strategies to maximise development whilst protecting environmental functions, values, and attributes.
- Identify any relevant permissions or approvals required for development of the subject area.



The scope of the EA is as follows:

- Review of surrounding land uses and compatibility.
- Identify site soils, potential/actual Acid Sulfate Soils (ASS), geology and geomorphology.
- Identify any Aboriginal or European heritage via search on relevant databases.
- Ecological features of significance.
- Surface and groundwater hydrology with consideration of local catchment, wetlands and water bodies.
- Potential nuisance insects.
- On site hydrological and soil assessment.
- Level 1 on site assessment of flora and fauna.

2. PLANNING AND POLICY

The following State, District and Local planning documents are relevant to the subject area:

- State Planning Strategy (WAPC, 1997)
- Metropolitan Region Scheme (MRS) (WAPC, 2012)
- City of Armadale Town Planning Scheme No. 4 (WAPC, 2012)
- Southern River / Forrestdale / Brookdale / Wungong District Structure Plan (WAPC 2001)
- Economic and Employment Land Strategy: Light Industrial WAPC (April 2012)

The subject area including Lots 5, 7, and 9 Oxley Road, Lots 10 and 12 Rowley Road and 5066 Kargotich Road is zoned “Rural” as per the Metropolitan Region Scheme (MRS) and the Southern River / Forrestdale / Brookdale / Wungong District Structure Plan. The subject area is also zoned “Rural Living” as per the City of Armadale Town Planning Scheme (TPS) No. 4 (Figure 2).



A recent MRS amendment has seen adjoining Lots 6,8 and 200 Rowley Road become zoned Industrial, with steps currently underway to likewise amend Armadale's TPS4.

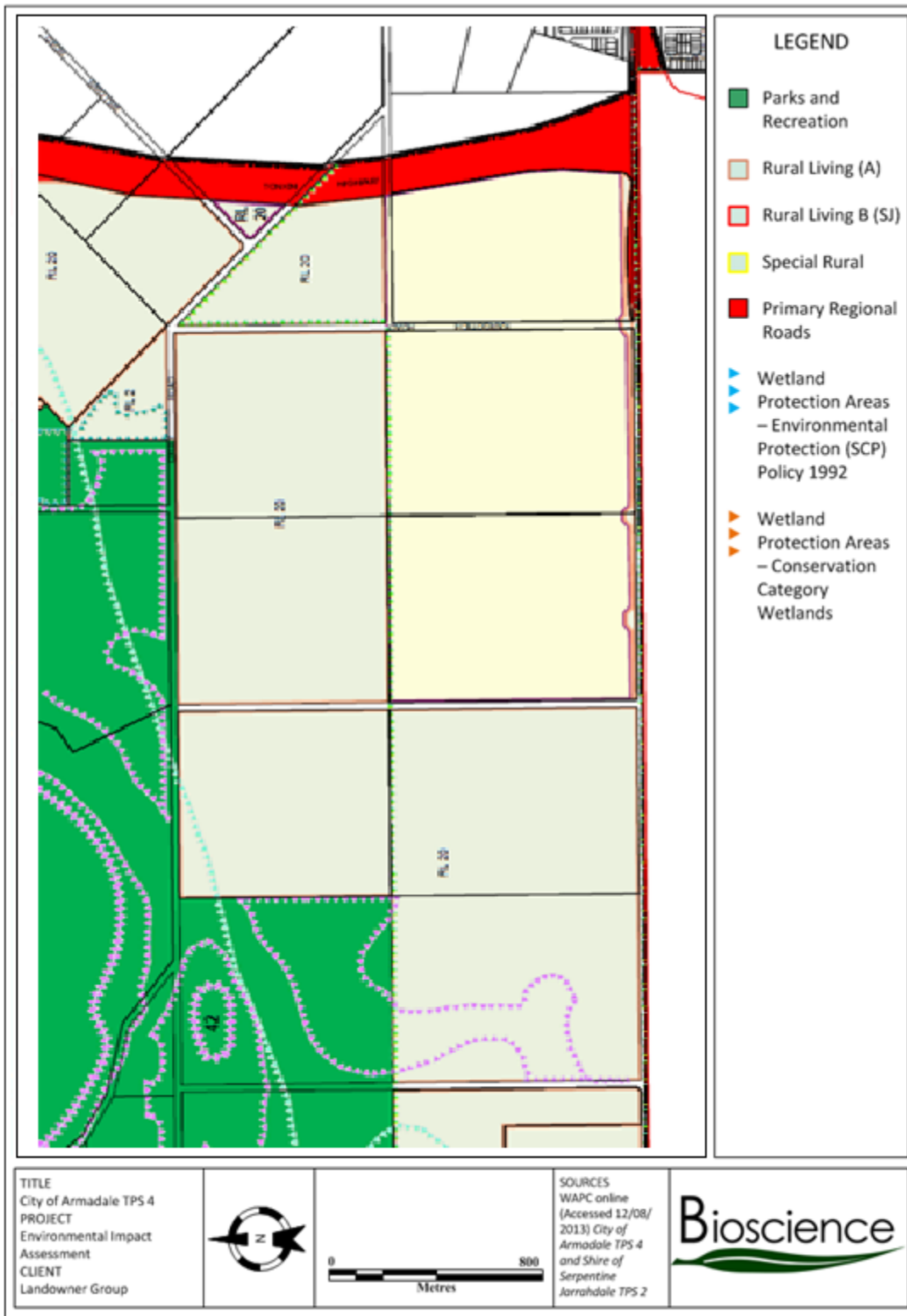


Figure 2: City of Armadale Town Planning Scheme No. 4



2.1 Economic and Employment Lands Strategy (EELS)

The Economic and Employment Lands Strategy (EELS) – Non-heavy Industrial has been prepared as part of the state governments response to a recognised deficit in Perth’s industrial land supply.

The aims of the strategy include:

Identify the areas, type and locations of general and light industrial land required over the next 20 years.

Review the existing industrial land development program and identify possible extension opportunities.

Identify and evaluate the suitability of locations for new general and light industrial estates.

Develop a strategy to facilitate the delivery of general and light industrial land and assist in the restoration of the Government’s long-term general and light industrial landbank.

Thirty-seven sites, totalling around 13 000ha have been identified as potential gross developable land for future use (20 year outlook). South Forrestdale has been identified as a potential medium term non-heavy industrial site comprising of eight main landowners and covering an area of 354ha (Figure 3). Within this area, the subject site is approximately 190 ha totalling around 54% of the South Forrestdale potential industrial site. The aforementioned MRS amendment for Lots 6,8 and 200 meant 106 ha (30% of the EELS area) has already been rezoned.



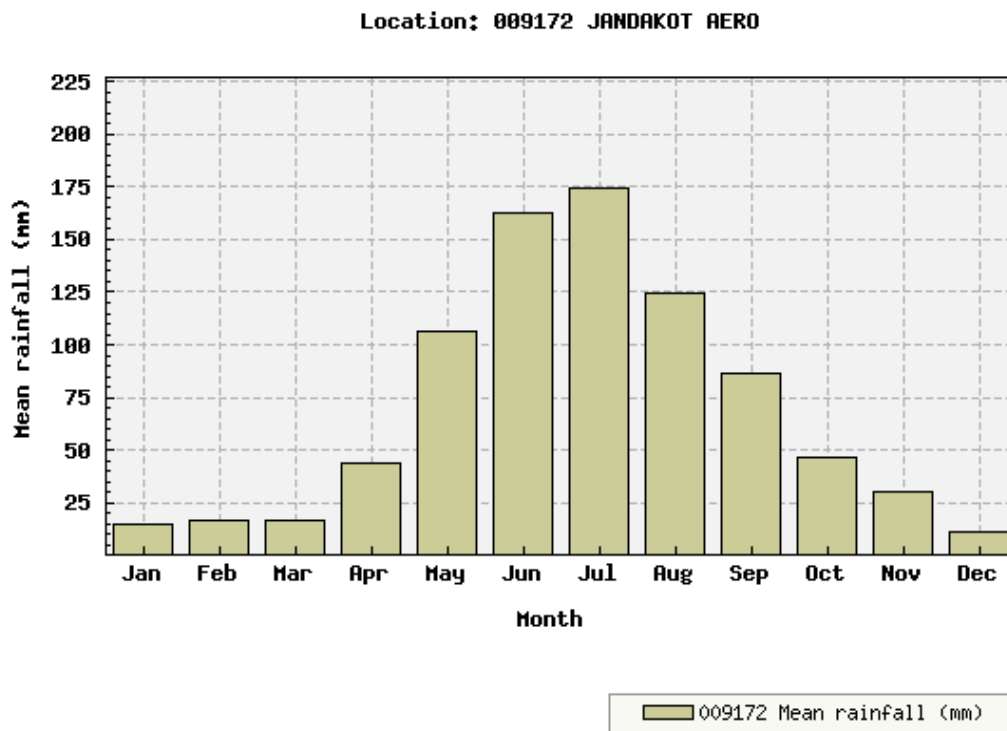
Figure 3: EELS - South Forrestdale Site



3. EXISTING ENVIRONMENT

3.1 Climate

The south west of Western Australia is characterised by a Mediterranean climate comprising hot dry summers and cool wet winters. According to the Bureau of Meteorology the average annual rainfall within the vicinity of the proposed development is 822.7mm (Jandakot Aero: 009172). The monthly distribution of rainfall (Figure 3) indicates nearly 80% of the rainfall occurs during the months of May to September.



Australian Government
Bureau of Meteorology

Created on Tue 9 Apr 2013 12:17 PM EST

Figure 4: Average annual rainfall and temperature



3.2 Geology Geomorphology and Soils

3.2.1 Geology

According to the Department of Mines and Petroleum (DoMP) geological mapping of Western Australia (1:500 000) (DoMP, 2009) the subject area is within the Warnbro group. The Warnbro group is a sedimentary siliciclastic rock type described as undivided; interbedded sandstone, siltstone and shale, minor conglomerate; which includes Dandaragan sandstone, South Perth Shale and Leederville formation. The regolith consists of sandplain of mainly eolian origin including some residual deposits.

3.2.2 Geomorphology and Soils

The subject site is located on the Swan Coastal Plain within the Bassendean dune system, an area characterised by low dunes of siliceous sand interspersed with poorly drained areas or wetlands. Soils tend to be a deep bleached grey colour sometimes with a pale yellow B horizon or a weak iron-organic hardpan at depths generally greater than 2 m.

Underlying the Bassendean formation is the Guildford formation. The soils of the Guildford formation are complex, and comprise a successive layering formed from erosion of material from the scarp to the east. Rivers and streams have mostly carried the eroded material, which is deposited from the water as fans of alluvium. The Guildford formation is characterised by poor drainage due to the low permeability of sub-soil clays which prevent the downward infiltration of rainfall, consequently during winter months water logging and surface inundation can occur. In addition, the clay fraction of the Guildford formation is known to have highly variable Plasticity Indices (Hillman et al., 2003). Soil Organic content varies between 1-3% of volume in the surface layers, dropping to between 0.2-1% in subsoils (*ASRIS*). There are also Swampy or Lacustrine (Vertosols) soils in the locality, which consist of peaty waterlogged soils.



The geology at the site as per the Geological Survey of Western Australia 1:50000 Environmental Geological Series Armadale Map part of sheets 2033 I and 2133 IV (Figure 4) is composed of:

- S8 – SAND – Very light grey at surface, yellow at depth, fine to medium grained, sub-rounded quartz, moderately well sorted, of eolian origin
- S10 – SAND- as S8 over sandy clay to clayey sand of the Guildford Formation of Aeolian origin (Bassendean Sand over Guildford Formation).
- Sc – SANDY CLAY – Silty in part, pale grey to brown, medium to coarse-grained, poorly sorted, subangular to rounded, frequent heavy minerals, rare feldspar, of alluvial origin
- Sp1 – PEATY SAND- Grey to black, fine to medium-grained, moderately sorted quartz sand, slightly peaty, of lacustrine origin

Geotechnical investigations to support the DWMS (Bioscience 2017) have confirmed the Geological Survey mapping, and have found that the western side of the subject site has sand to depths of 3.5 - 5 m over Guildford clay, but the depth of sand over clay declines in an easterly and southerly direction such that most of Lot 5066, and the south east corner of Lot 9 have clay very close to the surface of organic silty loam.

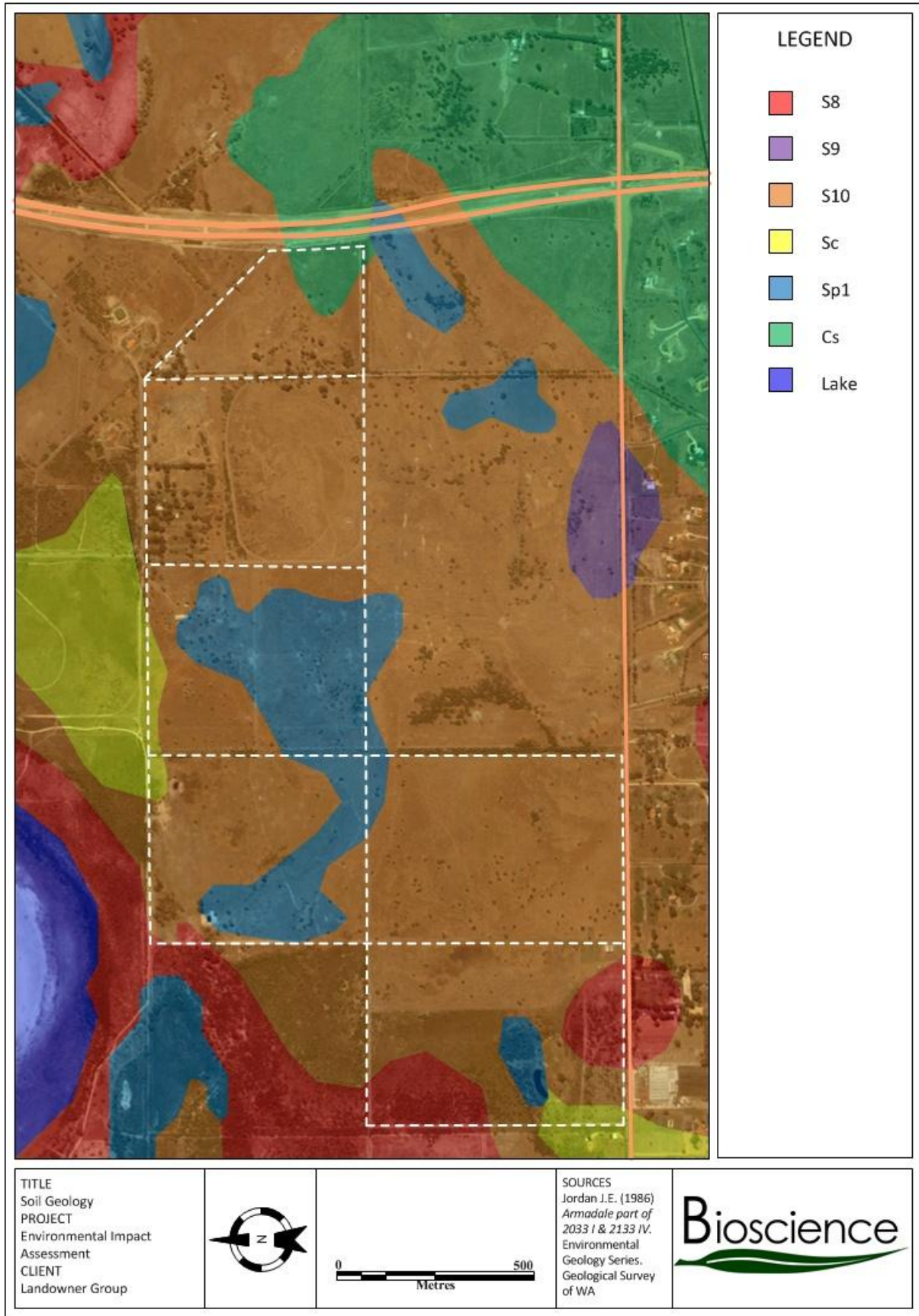


Figure 5: Soil types



3.3 Topography

The area has a low relief with minor variations in topography. The site is around 24m AHD (Figure 5).



Figure 6: Topography



3.4 Vegetation and Flora

The study area is within the Swan Coastal Plain Biogeographic Region of the South-west Botanical Province (Thackway and Cresswell 1995, Paczkowska and Chapman 2000), an area that extends from Jurien Bay to the north to Dunsborough to the south, and west of the Darling Scarp. Historically this biogeographic region has been extensively cleared for both urban and agricultural purposes.

The site is essentially cleared with sporadic *Melaleuca preissiana* and *Kunzea glabrescens* occasionally over native sedges such as *Gahnia trifida*. A number of non-endemic eucalypts are also present. It has historically been used for grazing of stock and as such has resulted in highly degraded vegetation consisting mainly of introduced pasture grasses.

Bioscience conducted a modified Environmental Protection Authority's Guidance 51 Vegetation Survey (EPA 2004) Level 1 flora and vegetation assessment which consisted of both desktop assessment and site investigation as outlined below:

A desktop study of potential rare and endangered flora and ecological communities listed under the *Wildlife and Conservation Act 1950* and *EPBC Act 1999* was undertaken by analysis of the following databases:

- *NatureMap*: Western Australia's biodiversity online mapping (DEC 2011)
- *Florabase*: WA Herbarium guide to Western Australian Flora online (Western Australian Herbarium, 1998)
- *Protected Matters*: National Environmental Significance online mapping (DoSEWPaC 2010)

A site investigation of all flora and vegetation units present was conducted by Bioscience however the vegetation was so degraded that the protocols for a Level 1 or a Level 2 EPA Guidance 51 assessment could not be applied. Accordingly Bioscience undertook a modified vegetation survey of the subject land involving a careful walk-through of all areas containing native vegetation to document all species present. That area of Lot 12 which is mapped as Bush Forever and has been fenced



off does not form part of this assessment. The landowner, Mr Stephen Catellani, acknowledges that his Bush Forever land will not be part of the rezoning, but rather will eventually be acquired by WAPC under a negotiated settlement.

A portion of the bushland on Lot 12 extends beyond the Bush Forever boundary. It is recommended by DBCA (former DPAW) that if any of this vegetation will be impacted by the development including for fencing or fire protection measures then appropriately timed targeted surveys for threatened and priority flora should be undertaken in this area (i.e. the Bush Forever and adjoining vegetation on Lot 12). A setback or hard edge to the remnant native vegetation on Lot 12 be applied to ensure that both direct and indirect impacts to this area are avoided.

3.4.1 Flora of Conservation Significance

A search on DEC's NatureMap online indicated that five Declared Rare Flora (DRF) and thirteen Priority flora exist within 5km of the centre of the subject site (32° 10' 23 S, 115° 56' 41 E) (Appendix A). Of the DRF and Priority flora 5 are listed under the *EPBC Act* (1999) as Endangered (4) and Vulnerable (1). However due to close proximity to Lake Forrestdale Nature Reserve it is suspected that majority species listed in the search may belong to the protected area within and surrounding Lake Forrestdale. Accordingly a narrower search of 1 km was conducted (largely encompassing the subject site only) revealing no listed DRF or Priority flora. The purpose however of conducting a broader search of the DEC NatureMap database is based on accuracy of the search data and as such DRF and Priority flora from the broader search was considered.

Table 1: DRF and Priority Flora within search area

Species	Conservation Code	EPBC Act Category
<i>Byblis gigantea</i> (Rainbow Plant)	P3	-
<i>Caladenia huegelii</i> (Grand Spider Orchid)	Threatened (DRF)	Endangered
<i>Diuris purdiei</i> (Purdie's Donkey Orchid)	Threatened (DRF)	Endangered
<i>Drakaea elastica</i> (Glossy-leaved Hammer Orchid)	Threatened (DRF)	Endangered
<i>Drakaea micrantha</i>	Threatened (DRF)	Vulnerable
<i>Drosera occidentalis</i> subsp. <i>occidentalis</i>	P4	-
<i>Jacksonia gracillima</i>	P3	-
<i>Jacksonia sericea</i> (Waldjumi)	P4	-
<i>Lepidosperma rostratum</i>	Threatened (DRF)	Endangered
<i>Meioneetes tenuifolia</i>	P3	-
<i>Ornduffia submersa</i>	P4	-
<i>Schoenus pennisetis</i>	P3	-



<i>Stylidium aceratum</i>	P3	-
<i>Stylidium longitubum</i> (Jumping Jacks)	P4	-
<i>Stylidium paludicola</i>	P3	-
<i>Thysanotus glaucus</i>	P4	-
<i>Tripterococcus</i> sp. <i>Brachylobus</i>	P4	-
<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>	P4	-

No DRF or Priority flora was identified within the subject area, however this is not to say that they are not present as the survey was not conducted during spring whilst plants are flowering. It is noted that there is potential for the DRF species *Drakaea elastic*, *Lepidosperma rostratum* and *Autrostipa jacobiana*, and possibly some of the priority taxa, in particular *Ptilotus sericostachyus* subsp. *Roseus* (Priority 1) to be found on the site. Some of these taxa can persist in degraded areas, in particular *L. rostratum* and *A. jacobiana*. So although the areas of vegetation on the other lots (5, 7, 9 and 10) are small, sparsely vegetated and appear degraded from the aerial photography, it is recommended that a targeted survey over these areas is undertaken prior to the structure plan being prepared.

3.4.2 Vegetation Complexes and floristic community types

The vast majority of the site is almost completely devoid of native vegetation. Vegetation complex mapping conducted by Heddle *et al* (1980) indicates that the site lies within three vegetation complexes including the Bassendean Complex – Central and South, Beermullah Complex, and the Southern River Complex (Figure 7). According to the Perth Biodiversity Project (WALGA 2010) both the Bassendean Complex– Central and South and the Southern River Complex have less than 30% of pre-European extent on the Swan Coastal Plain south of Moore River remaining (27.67% and 19.72% respectively). The EPA Position Statement No. 2 (2000a) considers the “threshold level” below which species loss appears to accelerate exponentially at an ecosystem level is at a level of 30% of the pre-clearing extent of the vegetation type. The Beermullah Complex has less than 10% of pre-European extent on the Swan Coastal Plain south of Moore River remaining (6.91%). The EPA Position Statement No. 2 (2000a) considers any complex <10% as ‘Critically Endangered’.

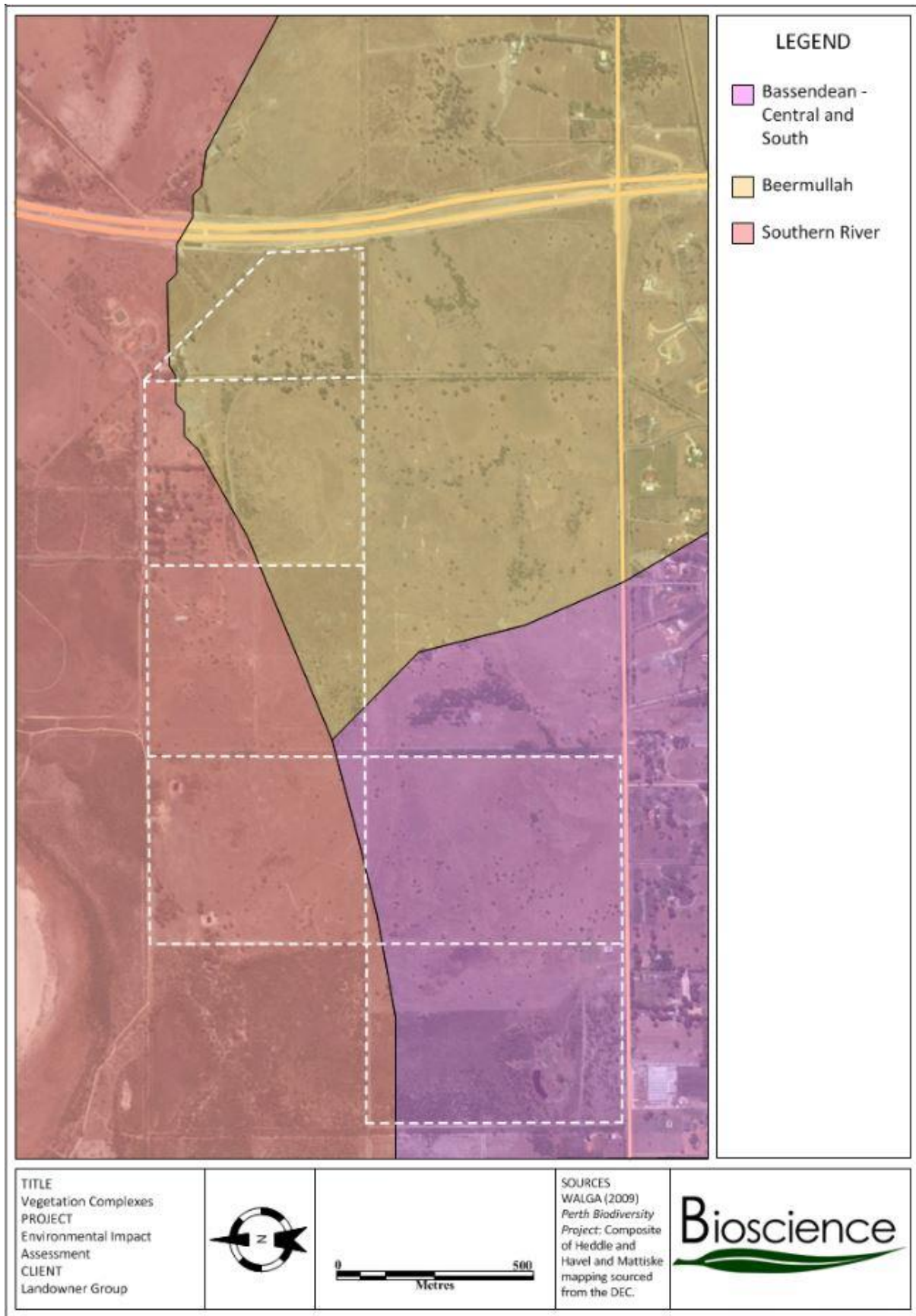


Figure 7: Vegetation Complexes



3.4.3 Vegetation of Conservation Significance

The list of Threatened Ecological Communities (TEC) from the Department of Environment and Conservation's TEC Database indicates no TECs are present within the subject area. However several TEC's are located within adjacent bushland to the north.

No potential TEC's were identified during site visits.

3.4.4 Adjacent off site Vegetation

North of Lot 9 on the northern side of the Oxley Rd Reserve is the Forrestdale Lake Nature Reserve. Within this reserve is Forrestdale Lake itself, a Ramsar Wetland of International Significance. This area is the subject of a Management Plan, published by the Conservation Commission in 2005. To the West of Lot 9, and extending into the western half of Lot 12 is Bush Forever Site 345. These Bush Forever Sites also contain Conservation Category Wetlands. North of Lot 7 and part of Lot 9 is a Recreation Reserve vested in the City of Armadale and proposed to be included in the Forrestdale Lake Nature Reserve. The entire reserve area, irrespective of the four types of tenure, is designated Bush Forever Site 345.

Site visits on neighbouring properties has indicated that generally the borders to the subject land is somewhat degraded due to past agricultural activities, firebreaks, and Oxley Road and road reserve (See Photos 1, 2 and 3). Deeper into the Bush Forever site (i.e. West) the vegetation is in much better and more natural condition. The Forrestdale Lake Nature Reserve likewise is not in good condition immediately adjacent to the subject site. However in both areas there is evidence of recent conservation and rehabilitation activity, including replanting endemic native flora, removal of established exotic trees and shrubs, and herbicide application to weeds.



Figure 8: Location of Bush Forever Site 345



Photo 1. Midpoint of Boundary on Lot 9 looking west into Bush Forever CCW.



Photo 2. Same location looking south



Photo 3. Same location looking north

3.4.5 Recommendations

It is the recommendation of Bioscience that landscaping within the development contains native indigenous vegetation and retention of any existing native species (where practical and where natural soil remains) is undertaken to replace some natural quality to the area. A species list for revegetation can be obtained from Apace online nursery database for the Bassendean – Central and South, Beermullah, and the Southern River Complex (Apace WA 2012).

An environmentally integrated development strategy can provide cohesion between environmental functions, values and attributes as well as community values and aesthetic.

Given the need to improve the natural areas outside the study area, and the need to protect these areas from potential disturbance by future industrial land use:

- The outer areas of the study site adjoining natural areas should be restricted to the lowest impact industrial use.



- wetland functions, values and attributes within the bush forever site needs to be determined, as do threatening processes, such that and appropriate rehabilitation scheme, and thereafter an appropriate buffer form and width can be determined.

3.5 Fauna

A desktop study of potential rare and endangered fauna listed under the *Wildlife and Conservation Act 1950* and *EPBC Act 1999* was undertaken by analysis of *NatureMap: Western Australia's biodiversity online mapping* (DEC 2011).

A site investigation was conducted by Bioscience for the presence of rare and endangered fauna and fauna habitat. Fauna survey of the subject land involved a careful walk-through of the subject area documenting all native species present and presence of fauna habitat.

3.5.1 Fauna Habitat

The subject area has been historically cleared for making it largely devoid of native vegetation as a result there is very little habitat for native fauna. Site inspection indicated very little native fauna habitat and evidence of introduced species. Some of the existing *Melaleuca* and *Eucalyptus* trees provide some food and habitat for passing native birds. Pastureland is likely to attract some native grazing animals such as Kangaroos residing in neighbouring bushland, however for the most part, the properties have substantial cattle fences restricting such use.

3.5.2 Fauna of Conservation Significance

Native Fauna within Western Australia are protected under the *Wildlife and Conservation Act 1950* however greater protection is placed on fauna considered rare or threatened. Australia has also signed agreements with China (CAMBA) and Japan (JAPAN) for protection of migratory birds and migratory bird habitat. The DEC classifies rare native fauna under 6 conservation codes.



A search on DEC's *NatureMap* online indicated that four Threatened, three Priority and one specially protected fauna exists within 5km of the centre of the subject site (32° 10' 23 S, 115° 56' 41 E). Of those Threatened and Priority fauna one is listed as Vulnerable (Numbat), one is listed as Endangered (Carnaby's Cockatoo) and one listed as Critically Endangered (Native Bee) under the EPBC Act 1999. In addition to Threatened and Priority fauna eighteen species of migratory bird are listed under international agreement (Japan - JAMBA, China - CAMBA, and Korea - ROKAMBA) under the EPBC Act 1999. However again due close proximity to Lake Forrestdale it is suspected that the species listed in the search reside within the protected area within and surrounding Lake Forrestdale (particularly migratory birds under international agreement) as such a narrower search of 1 km was conducted revealing only one individual listed as a Priority 5 species and one bird under international agreement. The purpose however of conducting a broader search of the DEC NatureMap database is based on accuracy of the search data and as such Threatened and Priority fauna from the broader search was considered.

Table 2: Threatened and Priority Fauna within search area

Species	Conservation Code	EPBC Act Category
<i>Apus pacificus</i> (Fork-tailed Swift)	IA	-
<i>Ardea ibis</i> (Cattle Egret)	IA	-
<i>Arenaria interpres</i> (Ruddy Turnstone)	IA	-
<i>Calidris acuminata</i> (Sharp-tailed Sandpiper)	IA	-
<i>Calidris ferruginea</i> (Curlew Sandpiper)	IA	-
<i>Calidris melanotos</i> (Pectoral Sandpiper)	IA	-
<i>Calidris ruficollis</i> (Red-necked Stint)	IA	-
<i>Calidris subminuta</i> (Long-toed Stint)	IA	-
<i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo (Short-Billed Black Cockatoo)	T	Endangered
<i>Charadrius leschenaultia</i> (Greater Sand Plover)	IA	-
<i>Falco Peregrinus</i> (Peregrine Falcon)	S	-
<i>Haliaeetus leucogaster</i> (White-bellied Sea-Eagle)	IA	-
<i>Isoodon obesulus</i> ssp. <i>fusciventer</i> (Southern Brown Bandicoot)	P5	-
<i>Leioproctus contrarius</i> (Bee)	P3	-
<i>Leioproctus douglasiellus</i> (Bee)	T	-
<i>Lerista lineata</i> (Perth Slider, Lined Skink)	P3	-
<i>Merops ornatus</i> (Rainbow Bee-eater)	IA	-
<i>Myrmecobius fasciatus</i> (Numbat)	T	Vulnerable
<i>Neopasiphae simplicior</i> (Bee)	T	Critically



		Endangered
<i>Ornduffia submersa</i>	P4	-
<i>Plegadis falcinellus</i> (Glossy Ibis)	IA	-
<i>Pluvialis fulva</i> (Pacific Golden Plover)	IA	-
<i>Pluvialis squatarola</i> (Grey Plover)	IA	-
<i>Schoenus pennisetis</i>	P1	-
<i>Stercorarius longicaudus</i> (Long-tailed Skua)	IA	-
<i>Tringa glareola</i> (Wood Sandpiper)	IA	-
<i>Tringa nebularia</i> (Common Greenshank)	IA	-
<i>Tringa stagnatilis</i> (Marsh Sandpiper)	IA	-

3.5.3 Recommendations

According to EPA’s *Guidance Statement Number 33 – Environmental Guidance for Planning and Development* (2008), fauna is best protected by retaining and enhancing native bushland areas. Therefore it is the recommendation of Bioscience that any remnant native species and mature trees be retained if possible and native indigenous vegetation should be used for landscaping. Rehabilitation programs should be considered for local wildlife with a focus on species in decline.

It is recommended that any landscaping within the development contains vegetation that may provide food and habitat for the critically endangered native Bee *Neopasiphae simplicior* and the endangered Carnaby’s Cockatoo (*Calyptorhynchus latirostris*).

3.6 Biodiversity

City of Armadale Local Biodiversity Strategy (LBS) indicates that the subject area is within precinct 22. Precinct 22 is also classified as a category 1 meaning that it was zoned or proposed for urbanization but does not contain any structure plans. The target set out by the LBS is to protect 71 ha of Local Natural Area (LNA) in category 1 precincts, of which no more than 54 ha is wetland. The target minimum area to be protected for the whole of precinct 22 is 44 hectares or 13%.

The LBS aims to conserve natural areas of significance. Mapping of precincts was based on planning rather than existing natural characteristics. As a result the subject site does not contain any natural areas of significance as such the LBS does not



apply. However it is worth noting that portions of the site used as part of the local stormwater drainage system offer opportunities for rehabilitation with local endemic flora.

3.7 Hydrogeology, Surface Water and Drainage

3.7.1 Hydrogeology

According to Davidson and Yu (2006) the study area is located within the superficial aquifers, which is bounded to the north by the Canning River, to the east by the Darling Scarp, to the south by the Byford aquifer and to the west by Lake Forrestdale and the Southern River. It should be noted however, that the study area is also located within close proximity of a transitional zone between its neighbouring superficial aquifers, namely the Jandakot and Byford aquifers. Given this mapping was conducted on a regional scale the actual hydrogeology of the site may be rather complex.

The majority of groundwater recharge, like other areas within the Swan Coastal Plain, results from rainfall infiltration, however additional recharge results from rainwater runoff from the Darling Scarp (Davidson and Yu 2006). The estimated annual groundwater recharge is only 5%, which is relatively low for the Swan Coastal Plain and due in part to low hydraulic conductivities of clayey sediments and the shallow water table.

The superficial aquifer has a transmissivity of approximately $100\text{m}^2/\text{day}$, an average annual fluctuation of approximately 0.8m between minimum and maximum groundwater levels, and it ultimately discharges into either the Southern River ($4900\text{m}^3/\text{day}$) or Lake Forrestdale ($1000\text{m}^3/\text{day}$) when groundwater levels are higher.

3.7.2 Local Groundwater

According to the Department of Environment's (DoE's) *Perth Groundwater Atlas* (DoE, 2004) the site is characterised by having a high groundwater table with moderate salinity (1000 – 1500 mg/L). Groundwater levels at the site in May 2005



(minimum) were approximately 22m ADH, whereas the historical maximum groundwater levels for the site is around 24m ADH. As described previously, the topography of the site varies from just under 24m AHD to 25m AHD, consequently the site becomes inundated in the winter months particularly in the lower lying areas (i.e. <24m AHD) (Figure 7).

Hydrological studies by Bioscience for production of a DWMS monitored groundwater levels in 24 piezometric bores across the site for three years. Coupled with data from a further 24 bores on the now industrial zoned area, a fine resolution picture has emerged which shows a very gentle groundwater hydraulic gradient which causes groundwater of the southern half of Lots 7 and 9 to move southward. whereas in the northern half, groundwater flow moves northward. In Lots 10 and 12, groundwater flow moves in a south easterly direction towards the already industrial zoned land.



Figure 9: Groundwater Contours



3.7.3 Surface Water and Drainage

3.7.3.1 Wetlands

The Geomorphic Wetlands Dataset displays the location, boundary, geomorphic classification and management category of wetlands on the Swan Coastal Plain. The information contained within the dataset was originally digitised from the *Wetlands of the Swan Coastal Plain Volume 2B Wetland Mapping, Classification and Evaluation: Wetland Atlas*, which was captured at a scale of 1:25,000 (Hill *et al.* 1996). According to the DEC geomorphic wetland dataset the entire site lies within two multiple use wetlands (Figure 9), namely a sumpland and a palusplain or a seasonally waterlogged basin or flat area (UFI: 14884 and 15797). The site is in close proximity by many wetlands of conservation significance.

North of Lots 5,7 and 9 is a Palusplain Wetland (UFI 7383 which is a Conservation Category. The Ramsar Wetland Boundary is the road reserve north of Lot 9. To the west of Lot 9 in the Bush Forever land is a Conservation Category Sumpland (UFI 12992).

Within Lot 12 in the area reserved for Bush Forever are three wetlands, being Palusplain CCW (UFI 15198), Dampland CCW (UFI 12993) and Dampland Resource Enhancement Wetland (UFI 15575)

To the east of Lot 10, in the road reserve and adjoining Lot 8 is a Palusplain Resource Enhancement Wetland (15796). See Figure 10.

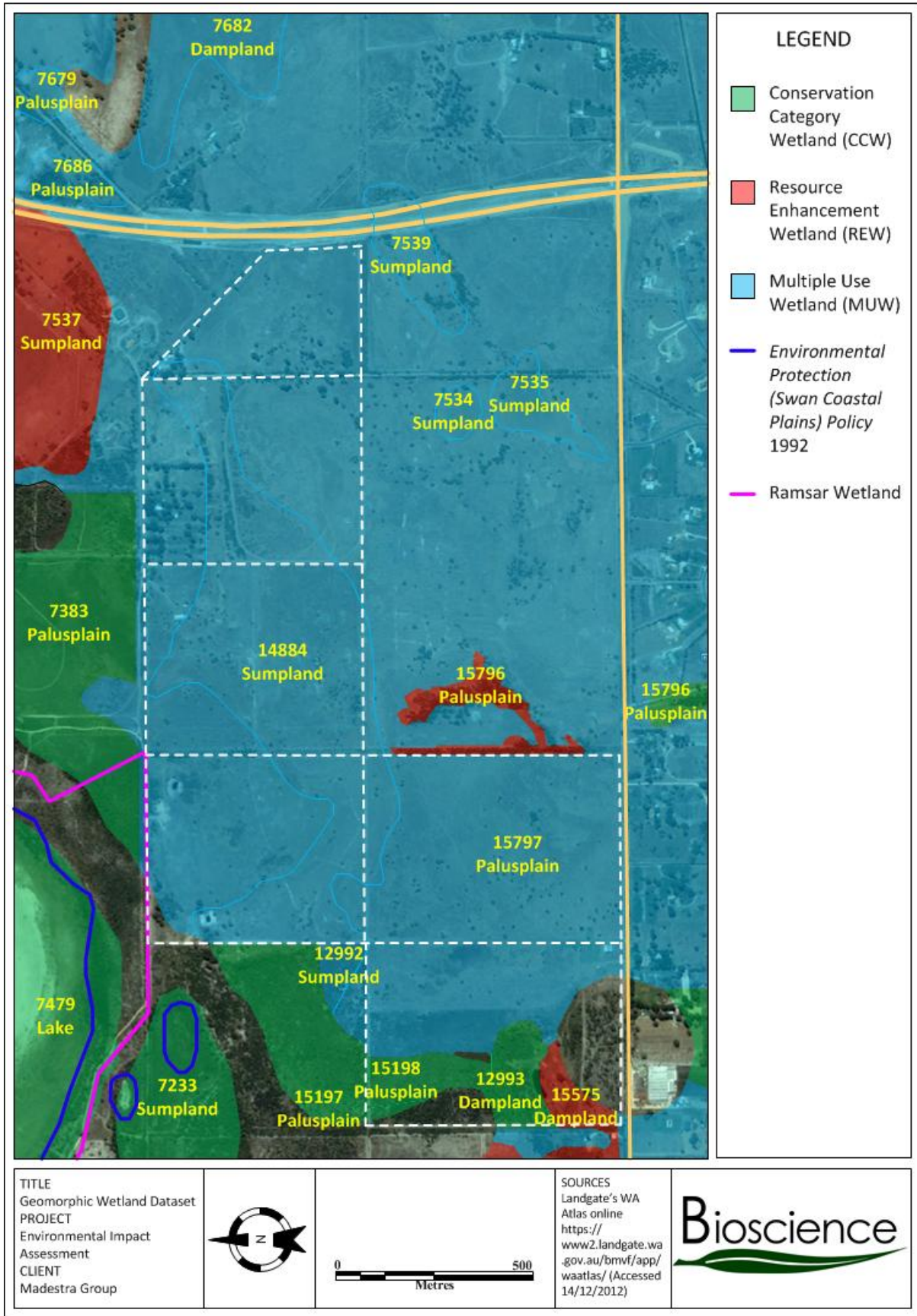


Figure 10: Geomorphic Wetlands Dataset



Multiple Use Wetlands (MUWs) are areas where wetland functions, values and attributes have been seriously degraded such that they no longer serve any substantial ecological role. They are typically cleared of native vegetation and do not support wetland fauna. The management objective is to preserve hydrological functions, but otherwise they can be developed for more beneficial use.

However these wetlands are a significant environmental constraint in relation to the proposed development, due to the flooding risk. A detailed hydro geological site investigation has been undertaken to monitor and model the groundwater to determine the Average Annual Maximum Groundwater Level (AAMGL). It is likely that any proposed development will require the construction of appropriate drains. These provide the opportunity for rehabilitation as living streams to assist with environmental conservation, pollution and flood control of the proposed development.

Wetland buffers are expected within EPA guidance 33 to create protection by means of separation of differing and conflicting landuses. Buffers are required where wetland values are high such as CCWs and REWs. The subject site largely contains only MUWs (with the exception of Lot 12 as described) which have very low functions, values, and attributes. As a result the wetlands within the site do not require wetland buffers.

CCW's and REW outside the site typically require a minimum 50m buffer unless site specific assessment can determine a more suitable alternative. EPA Guidance 33 refers to WAPC guidance on setting appropriate wetland buffers based on a study of threats to a wetlands values functions and attributes. The buffer is to appropriately protect against such identified threats. Such buffers are best set at structure planning stages when details of proposed land use become clearer.



3.7.3.2 Lakes

Lake Forrestdale located adjacent north is identified as an internationally recognised Ramsar site. The Ramsar Convention is an intergovernmental treaty that provides the framework for the conservation and wise use of wetlands and their resources. This has significant bearing on the potential hydrological effects of the development.

“Wise use” is defined as “the maintenance of their ecological character, achieved through the implementation of ecosystem approaches within the context of sustainable development”.

The 2005 Forrestdale Lake Nature Reserve Management Plan highlights the major threat to ongoing wise use of the Lake is climate change significantly reducing runoff into the Lake which was historically permanent, and now typically dries out most years. The development of industrial in nearby land will involve the construction of hard surfaces such as roofs and roads. This creates the opportunity to provide a supplementary source of water to the lake by managing rainfall runoff towards the lake. A precedent already exists to supplement water into a Ramsar Wetland, where bore water is pumped into Thompsons Lake to maintain water levels.

3.7.3.3 Drainage

The majority of the subject site is largely flat with no constructed drainage. Surface water is expected to inundate lower areas and only slowly infiltrate on site.

Hydrological studies for the District Water Management Plan completed by Bioscience confirms that the site lies across two catchments (Figure 11); the Swan-Avon Canning River (SACR) catchment to the north (within the north Lots 5, 7, 9 and 5066) and the Peel Estuary Serpentine River (PESR) catchment to the south. However the soils in the northern catchment adjacent to the environmentally sensitive areas are typically deep sands, and between the subject land and Lake Forrestdale there are substantial sand dunes, thereby making the prospect for overland flow from the northern parts of the land into Lake Forrestdale virtually impossible.

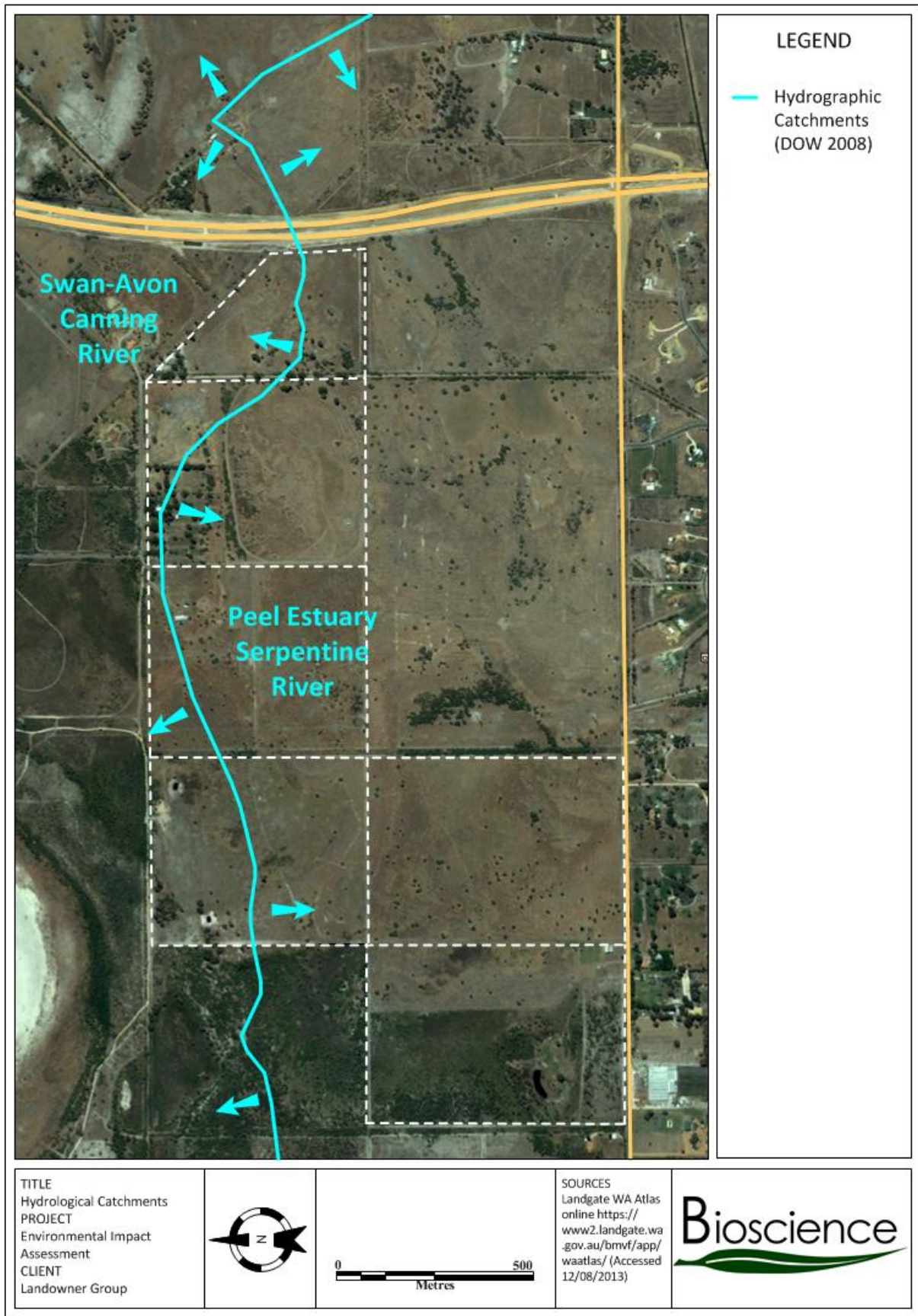


Figure 11: Hydrological Catchments



3.7.4 Recommendations

As planning progresses towards structure planning and subdivision, consideration should be given to options for capturing stormwater from roofs and hardstand areas in ways which enable supplementing the hydrological cycle of Forrestdale Lake. Any alternation of the Lakes currently natural hydrological cycle requires careful and coordinated studies focussed on the precautionary principle.

3.8 Acid Sulfate Soils

Acid sulfate soils (ASS) are naturally occurring soils which contain iron sulfides, most commonly pyrite (DEC 2009b). These soils can produce a variety of iron compounds and sulfuric acid conditions when exposed to air. The resulting low pH can release other substances such as heavy metals into the surrounding environment which potentially threatens the health of receiving ecological systems (DEC 2009b). Minimising the disturbance of acid sulfate soils is recommended so as to prevent any detrimental impacts on the environment and its surroundings.

Disturbance risk is assessed on the basis of depth from natural ground-surface on the precept that most land development activities including drainage, excavations and dewatering generally do not extend to greater than 3m below natural ground-level. The map includes areas where ASS risk has been predicted using available desk-top information and limited ground-truthing with areas where intensive on-ground mapping and soil analysis work has been carried out.

WAPC has compiled maps of ASS risk areas for several coastal regions of Western Australia. These maps are not an accurate representation of the risk areas but rather give a general indication and encourage site-specific investigations to determine management strategies. The land is generally moderate-low risk within 3m of natural soil surface with a high to moderate risk beyond 3m however an area within Lot 7 and 9 and a small portion of Lot 10 is a moderate to high risk of ASS within 3m of the natural soil surface (Figure 9).



Acid Sulfate Investigations of soils recovered during bore installations were undertaken as part of geotechnical studies to support the DWMS. For the most part they confirm the presence of Acid Sulfate at depth mostly coinciding with the risk maps.



Figure 12: Acid Sulfate Soil Risk Map



3.8.1 Recommendations

Bioscience recommends ASS testing be carried out prior to any ground works below the natural soil surface, for example, for the installation of services. However DWER policy on Acid Sulphate Soils is to avoid disturbing them if possible. If disturbance or dewatering are unavoidable, investigations must be undertaken according to DWER Guidance, and if necessary and Acid Sulfate Management Plan must be approved by DWER before work begins.

3.9 Heritage

3.9.1 Indigenous

A search on the aboriginal heritage inquiry system on the Department of Indigenous Affairs (DIA) website (DIA 2011), indicated that no Aboriginal Heritage sites exist within the properties in question. However the DIA recommends that a comprehensive archaeological and ethnographic heritage survey be undertaken to identify any unidentified heritage sites. Aboriginal heritage is protected under the *Aboriginal Heritage Act 1972* which specifies that it is an offence to alter, damage, remove, destroy, conceal, deal with or assume possession of any object under or on an Aboriginal Heritage Site.

3.9.2 European

A search on the Heritage Council of Western Australia (2011) database reveals no European heritage exists within the subject area.

3.10 Contamination

According to the DWER's Contaminated Sites Database Lots 5, 7, and 9 Oxley Road, Lot 6, 8, 10 and 200 Rowley Road and 5066 Kargotich Road are not registered as a contaminated site and the current and past land use is not registered as being a potentially contaminating. The surrounding 2km area is also not registered as a contaminated site.



An area located approximately 2km north, north-west of the site is classified as “Remediated – Restricted Use” due to presence of Asbestos Containing Material (ACM). This is of no concern to the subject site and its proposed development.

The Contaminated Sites Act 2003 and associated regulations and guidelines require a tiered assessment process, and if no evidence of contamination is found from both desktop and initial field investigations, no further action is required. Previous land use is not considered to be potentially contaminating.

3.11 Nuisance Insects

The subject site contains Sumpland: 14884 Multiple Use Wetland (MUW) which gets seasonally inundated potentially providing breeding habitat for nuisance midge and mosquitoes. The risk of midge and mosquito populations becoming unacceptable is moderate to low due to the absence of permanent water bodies however due to winter inundation adequate stormwater management is required to reduce future risk. Water management for control and prevention of nuisance midge and mosquitoes can be found in EPA’s *Guidance 40: Management of mosquitoes by land developers* (EPA 2000b).

3.11.1 Recommendations

Stormwater management and constructed wetlands should be in accordance with EPA’s *Guidance 40: Management of mosquitoes by land developers* (EPA 2000b) for minimisation of mosquito breeding environments and integrate Water Sensitive Urban Design (WSUD) principles to ensure optimal management of stormwater run-off.

3.12 Fire Hazards

The site is adjacent to bushland to the north and west which requires consideration of protection from bushfire. Although no formal assessment has been undertaken of the Forrestdale Nature Reserve or Bush Forever land, using FESA guidance in



Planning for Bushfire Protection (2010) the area will be rated as Extreme fire hazard where canopy closure of trees and/or a dense understorey is present.

The WAPC SPP 3.7 thus classifies the area as bushfire prone, and as the area is larger than 1 Ha. A Bushfire Management Strategy is thus required at the structure planning stage to determine how reduction in fire hazard is best managed.

A number of options are available to achieve the required separation of 100 m from bushfire prone areas. These are likely to include a combination of perimeter roads, particular treatment of buffer areas to minimise hazard, and the requirement to have car parking and hazard reduction landscaping at the front of buildings.

4. ENVIRONMENTAL APPROVALS

The following environmental legislations and policies are relevant to the proposed development and subject to approvals:

- *Environmental Protection Act 1986*
- *Environmental Protection and Biodiversity Conservation Act 1999*

The EPA acts as the regulatory authority under the *EP Act 1986* who will consider all potential environmental impacts associated with the development including rezoning and subdivision.

Under the Commonwealth *EPBC Act 1999* matters of national environmental significance are protected and subject to approvals. Matters of environmental significance include:

- Listed Threatened Ecological Communities
- Listed migratory species
- Declared Ramsar wetlands
- Commonwealth marine area
- World heritage
- National heritage



Approvals will be required from the Department of Water with regard to water supply from bores, wells, rivers, and Water Corporation drains and connection of private and local authority drains to Water Corporation drains.

5. SUMMARY: ENVIRONMENTAL CONSTRAINTS AND RECOMMENDATIONS

The vast majority of the site is farmland which has been grazed for over 50 years, so has few remaining natural environment features. About half of Lot 12 is part of Bush Forever Site 345, and the MRS amendment application does not cover this area, which once acquired by WAPC, will eventually be rezoned Parks and Recreation.

Of the remaining land proposed for industrial rezoning, where possible, any mature native trees should be retained.

The construction of drainage infrastructure will provide the opportunity to restore some of the original vegetation types which were formerly present.

The existing Forrestdale Lake Nature Reserve Management Plan notes that climate change is the major threat to maintaining the Ramsar Wetland attributes and character with reduced rainfall. Other Conservation Category Wetlands in neighbouring Bush Forever areas are likewise imperilled by declining rainfall. However land use change from rural to industrial significantly alters the fate of rainfall and stormwater, so the opportunity arises to capture clean water and to capture and treat water from hard surfaces in the industrial area to supplement the natural environmental assets of the area. These should be investigated further during structure planning.

The interface between the industrial zone and surrounding environmental assets, both dryland and wetland, needs to be sensitive to the current condition of the natural areas and the need to protect them. There is an opportunity for developers to contribute to the rehabilitation and restoration of the Reserve land as a part of



constructing effective buffers against threats which might otherwise reduce the long term future of these important environmental assets.

The low lying nature of the land means Acid Sulfate Soils will require assessment and management of excavation below the surface, or dewatering is required for the installation of services.

Also note that a power line corridor crosses Lot 7. This corridor will be subject to a Western Power easement.



6. REFERENCES

- APACE WA (2012) *Online Nursery*. Apace WA. Fremantle, Western Australia
<http://www.apacewa.org.au/nursery>
- Bioscience (2017) District Water Management Strategy (Issue 7). South Forresdale Industrial Area - Lots 9, 7 & 5 Oxley Road, 5066 Kargotich Road, 10 & 12 Rowley Road
- DEC (2011) *NatureMap: Mapping Western Australia's Biodiversity*. Department of Environment and Conservation.
<http://naturemap.dec.wa.gov.au/default.aspx> (Accessed 28/07/2011)
- DEC (2009a) *Draft Treatment and management of soils and water in acid sulfate soil landscapes*. Department of Environment and Conservation.
- DEC (2009b) *Identification and Investigation of Acid Sulphate Soils and Acidic Landscapes: Acid Sulphate Soils Guideline Series*. Department of Environment and Conservation.
- DEC & Peel - Harvey Catchment Council Inc (2005) *Ramsar Management Plan*. Department of Environment and Conservation.
- DIA (2011) *Aboriginal Heritage Inquiry System*. Department of Indigenous Affairs.
<http://www.dia.wa.gov.au/AHIS/default.aspx> (Accessed 28/07/2011)
- DOE (2004) *Perth Groundwater Atlas: Second Edition*. Department of Environment.
- DOMP (2009) *Geological Mapping of Western Australia*. Department of Mines and Petroleum. <http://www.dmp.wa.gov.au/7113.aspx> (Accessed 29/07/2011)
- DOSEWPAC (2011) *Peel Inlet Harvey Estuary Map*. Department of Sustainability, Environment, Water, Population and Communities
- DOSEWPAC (2010) *Protected Matters Search Tool*. Department of Sustainability, Environment, Water, Population and Communities.
<http://www.environment.gov.au/epbc/pmst/index.html> (Accessed 28/07/2011)
- EPA (2008) *Guidance Statement No. 33 - Environmental Guidance for Planning and Development*. Environmental Protection Authority
- EPA (2004) *Guidance for the Assessment of Environmental Factors: Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia No. 51*. Environmental Protection Authority



- EPA (2000a) *Environmental Protection of Native Vegetation in Western Australia: Clearing of native vegetation, with particular reference to the agricultural area.* Environmental Protection Authority. Western Australia
- EPA (2000b) *Guidance 40: Management of Mosquitoes by Land Developers.* Environmental Protection Authority. Western Australia
- HEDDLE E.M, LONERAGAN O.W & HAVEL J.J, (1980) *Vegetation of the Darling System.* In: Atlas of Natural Resources, Darling System, Western Australia. Department of Conservation and Environment. Government of Western Australia.
- HILLMAN, M., COCKS, G. & AMERATUNGA, J. (2003) *Guildford Formation.* *Australian Geomechanics*, 38, 31-39.
- PACZKOWSKA, G. & CHAPMAN, A. R. (2000) *The Western Australian Flora, A Descriptive Catalogue.* Wildflower Society of Western Australia (Inc), the Western Australian Herbarium.
- THACKWAY, R. & CRESSWELL, I. D. (1995) *An interim biogeographic regionalisation for Australia: a framework for setting priorities in the National Reserves System Cooperative Program: Version 4.0.* Canberra, Australian Nature Conservation Agency.
- VAN GOOL, D., ANGELL. K., & STEPHENS. L. (2000) *Stocking rate guidelines for rural small holdings: Swan Coastal Plain and Darling Scarp Western Australia.* Department of Agriculture and Food
- WALGA (2010) *Perth Biodiversity Project.* Western Australia Local Government Association
- WAPC (2010) *Peel Region Scheme.* Western Australian Planning Commission
- WAPC (2014) *Draft State Planning Policy 3.7 Planning for Bushfire Risk Management.*
- WAPC (2003) *Statement of Planning Policy No. 2.1: The Peel-Harvey Coastal Plain Catchment.* Western Australian Planning Commission
- WAPC (1997) *State Planning Strategy.* Western Australian Planning Commission
- WAPC/DFES (2010) *Planning for Bushfire Protection Guidelines*
- AUSTRALIAN HERBARIUM (1998) *Florabase - The West Australian Flora.* Department of Environment and Conservation.
<http://florabase.dec.wa.gov.au/> (Accessed 28/07/2011)





Appendix A

DEC NatureMap Species Report

5km search radius 32°38'52 S, 115°49'09 E

NatureMap Species Report

Created By Guest user on 26/10/2017

Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 115° 56' 41" E, 32° 10' 23" S
Buffer 5km
Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	589	27215
Other specially protected fauna	1	25
Priority 3	8	17
Priority 4	13	196
Protected under international agreement	20	567
Rare or likely to become extinct	14	284
TOTAL	645	28304

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Rare or likely to become extinct				
1.	24345 <i>Botaurus poiciloptilus</i> (Australasian Bittern)		T	
2.	1596 <i>Caladenia huegelii</i> (Grand Spider Orchid)		T	
3.	24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)		T	
4.	24731 <i>Calyptorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black-Cockatoo)		T	
5.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo (short-billed black-cockatoo), Carnaby's Cockatoo)		T	
6.	48400 <i>Calyptorhynchus</i> sp. (white-tailed black cockatoo)		T	
7.	1637 <i>Diuris purdiei</i> (Purdie's Donkey Orchid)		T	
8.	1639 <i>Drakaea elastica</i> (Glossy-leaved Hammer Orchid)		T	
9.	13635 <i>Drakaea micrantha</i>		T	
10.	33983 <i>Leioproctus douglasiellus</i> (short-tongued bee)		T	
11.	942 <i>Lepidosperma rostratum</i>		T	
12.	24146 <i>Myrmecobius fasciatus</i> (Numbat, Walpurti)		T	
13.	33984 <i>Neopasiphae simplicior</i> (short-tongued bee)		T	
14.	34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)		T	
Protected under international agreement				
15.	25554 <i>Apus pacificus</i> (Fork-tailed Swift, Pacific Swift)		IA	
16.	25558 <i>Ardea ibis</i> (Cattle Egret)		IA	
17.	41324 <i>Ardea modesta</i> (great egret, white egret)		IA	
18.	25736 <i>Arenaria interpres</i> (Ruddy Turnstone)		IA	
19.	24779 <i>Calidris acuminata</i> (Sharp-tailed Sandpiper)		IA	
20.	24786 <i>Calidris melanotos</i> (Pectoral Sandpiper)		IA	
21.	24788 <i>Calidris ruficollis</i> (Red-necked Stint)		IA	
22.	24789 <i>Calidris subminuta</i> (Long-toed Stint)		IA	
23.	25575 <i>Charadrius leschenaultii</i> (Greater Sand Plover)		IA	
24.	47954 <i>Gelochelidon nilotica</i> (Gull-billed Tern)		IA	
25.	25741 <i>Limosa limosa</i> (Black-tailed Godwit)		IA	
26.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)		IA	
27.	25543 <i>Pandion haliaetus</i> (Osprey)		IA	
28.	24843 <i>Plegadis falcinellus</i> (Glossy Ibis)		IA	
29.	24382 <i>Pluvialis fulva</i> (Pacific Golden Plover)		IA	
30.	24383 <i>Pluvialis squatarola</i> (Grey Plover)		IA	
31.	24516 <i>Stercorarius longicaudus</i> (long-tailed jaeger, long-tailed skua)		IA	
32.	24806 <i>Tringa glareola</i> (Wood Sandpiper)		IA	
33.	24808 <i>Tringa nebularia</i> (Common Greenshank, greenshank)		IA	
34.	24809 <i>Tringa stagnatilis</i> (Marsh Sandpiper, little greenshank)		IA	
Other specially protected fauna				
35.	25624 <i>Falco peregrinus</i> (Peregrine Falcon)		S	
Priority 3				
36.	3178 <i>Byblis gigantea</i> (Rainbow Plant)		P3	

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
37.	20462 <i>Jacksonia gracillima</i>		P3	
38.	33982 <i>Leioproctus contrarius</i> (short-tongued bee)		P3	
39.	25147 <i>Lerista lineata</i> (Perth Slider, Lined Skink)		P3	
40.	33638 <i>Meionectes tenuifolia</i>		P3	
41.	1008 <i>Schoenus pennisetis</i>		P3	
42.	18564 <i>Stylidium aceratum</i>		P3	
43.	25800 <i>Stylidium paludicola</i>		P3	
Priority 4				
44.	13191 <i>Drosera occidentalis</i> subsp. <i>occidentalis</i>		P4	
45.	24215 <i>Hydromys chrysogaster</i> (Water-rat, Rakali)		P4	
46.	25478 <i>Isoodon obesulus</i> (Southern Brown Bandicoot)		P4	
47.	24153 <i>Isoodon obesulus</i> subsp. <i>fusciventer</i> (Quenda, Southern Brown Bandicoot)		P4	
48.	47975 <i>Ixobrychus dubius</i> (Australian Little Bittern)		P4	
49.	4027 <i>Jacksonia sericea</i> (Waldjumi)		P4	
50.	24133 <i>Macropus irma</i> (Western Brush Wallaby)		P4	
51.	36200 <i>Ornduffia submersa</i>		P4	
52.	24328 <i>Oxyura australis</i> (Blue-billed Duck)		P4	
53.	7756 <i>Stylidium longitubum</i> (Jumping Jacks)		P4	
54.	1334 <i>Thysanotus glaucus</i>		P4	
55.	44444 <i>Tripterococcus</i> sp. <i>Brachylobus</i> (A.S. George 14234)		P4	
56.	14714 <i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		P4	
Non-conservation taxon				
57.	3374 <i>Acacia huegelii</i>			
58.	3409 <i>Acacia lasiocarpa</i> (Panjang)			
59.	3502 <i>Acacia pulchella</i> (Prickly Moses)			
60.	15481 <i>Acacia pulchella</i> var. <i>glaberrima</i>			
61.	3527 <i>Acacia saligna</i> (Orange Wattle, Kudjong)			
62.	3557 <i>Acacia stenoptera</i> (Narrow Winged Wattle)			
63.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
64.	24261 <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
65.	24262 <i>Acanthiza inornata</i> (Western Thornbill)			
66.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
67.	25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
68.	25536 <i>Accipiter fasciatus</i> (Brown Goshawk)			
69.	42368 <i>Acritoscincus trilineatus</i> (Western Three-lined Skink)			
70.	25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)			
71.	14970 <i>Adenanthos barbiger</i>			
72.	1775 <i>Adenanthos cygnorum</i> (Common Woollybush)			
73.	1791 <i>Adenanthos obovatus</i> (Basket Flower)			
74.	1261 <i>Agrostocrinum scabrum</i> (Blue Grass Lily)			
75.	184 <i>Aira caryophyllea</i> (Silvery Hairgrass)	Y		
76.	187 <i>Aira praecox</i> (Early Hairgrass)	Y		
77.	20184 <i>Amphipogon laguroides</i> subsp. <i>laguroides</i>			
78.	199 <i>Amphipogon strictus</i> (Greybeard Grass)			
79.	200 <i>Amphipogon turbinatus</i>			
80.	<i>Aname mainae</i>			
81.	<i>Aname tepperi</i>			
82.	24310 <i>Anas castanea</i> (Chestnut Teal)			
83.	24312 <i>Anas gracilis</i> (Grey Teal)			
84.	24315 <i>Anas rhynchotis</i> (Australasian Shoveler)			
85.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
86.	47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)			
87.	1411 <i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw, Kurulbrang)			
88.	11566 <i>Anigozanthos viridis</i> subsp. <i>viridis</i>			
89.	<i>Anser anser</i>			
90.	24561 <i>Anthochaera carunculata</i> (Red Wattlebird)			
91.	24562 <i>Anthochaera lunulata</i> (Western Little Wattlebird)			
92.	12724 <i>Anthotium junciforme</i>			
93.	3688 <i>Aotus gracillima</i>			
94.	3692 <i>Aotus procumbens</i>			
95.	1117 <i>Aphelia cyperoides</i>			
96.	17845 <i>Apodasmia ceramophila</i>			
97.	24991 <i>Aprasia repens</i> (Sand-plain Worm-lizard)			
98.	24285 <i>Aquila audax</i> (Wedge-tailed Eagle)			
99.	24337 <i>Ardea garzetta</i> subsp. <i>nigripes</i> (Little Egret)			
100.	24340 <i>Ardea novaehollandiae</i> (White-faced Heron)			
101.	24341 <i>Ardea pacifica</i> (White-necked Heron)			
102.	207 <i>Aristida contorta</i> (Bunched Kerosene Grass)			
103.	1264 <i>Arnocrinum preissii</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
104.	25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)			
105.	24352 <i>Artamus cinereus</i> subsp. <i>melanops</i> (Black-faced Woodswallow)			
106.	24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)			
107.	<i>Artonia flavimana</i>			
108.	<i>Artonia linnaei</i>			
109.	<i>Asadipus kunderang</i>			
110.	20350 <i>Astartea affinis</i> (West-coast Astartea)			
111.	20283 <i>Astartea scoparia</i> (Common Astartea)			
112.	7851 <i>Asteridea pulverulenta</i> (Common Bristle Daisy)			
113.	2471 <i>Atriplex prostrata</i> (Hastate Orache)	Y		
114.	17234 <i>Austrostipa compressa</i>			
115.	231 <i>Avellinia michelii</i>	Y		
116.	235 <i>Avena sativa</i> (Common Oat)	Y		
117.	24318 <i>Aythya australis</i> (Hardhead)			
118.	42902 <i>Azolla rubra</i>			
119.	1800 <i>Banksia attenuata</i> (Slender Banksia, Piara)			
120.	1822 <i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
121.	1834 <i>Banksia menziesii</i> (Firewood Banksia)			
122.	1852 <i>Banksia telmatiaea</i> (Swamp Fox Banksia)			
123.	<i>Barnardius zonarius</i>			
124.	743 <i>Baumea juncea</i> (Bare Twigrush)			
125.	5393 <i>Beaufortia squarrosa</i> (Sand Beaufortia, Sand Bottlebrush, Puno)			
126.	24319 <i>Biziura lobata</i> (Musk Duck)			
127.	1417 <i>Blancoa canescens</i> (Winter Bell)			
128.	16636 <i>Boronia crenulata</i> subsp. <i>viminea</i>			
129.	4417 <i>Boronia dichotoma</i>			
130.	4420 <i>Boronia fastigiata</i> (Bushy Boronia)			
131.	4441 <i>Boronia spathulata</i> (Boronia)			
132.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)			
133.	6341 <i>Brachyloma preissii</i> (Globe Heath)			
134.	7878 <i>Brachyscome iberidifolia</i>			
135.	<i>Briza ?maxima</i>			Y
136.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
137.	245 <i>Briza minor</i> (Shivery Grass)	Y		
138.	1383 <i>Burchardia bairdiae</i>			
139.	12770 <i>Burchardia congesta</i>			
140.	1385 <i>Burchardia multiflora</i> (Dwarf Burchardia)			
141.	25713 <i>Cacatua galerita</i> (Sulphur-crested Cockatoo)			
142.	25714 <i>Cacatua pastinator</i> (Western Long-billed Corella)			
143.	25715 <i>Cacatua roseicapilla</i> (Galah)			
144.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
145.	24729 <i>Cacatua tenuirostris</i> (Eastern Long-billed Corella)	Y		
146.	25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
147.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
148.	1277 <i>Caesia occidentalis</i>			
149.	1592 <i>Caladenia flava</i> (Cowslip Orchid)			
150.	15348 <i>Caladenia flava</i> subsp. <i>flava</i>			
151.	1599 <i>Caladenia latifolia</i> (Pink Fairy Orchid)			
152.	15361 <i>Caladenia longicauda</i> subsp. <i>calcigena</i>			
153.	1605 <i>Caladenia marginata</i> (White Fairy Orchid)			
154.	15503 <i>Caladenia paludosa</i>			
155.	16365 <i>Calandrinia</i> sp. <i>Kenwick</i> (G.J. Keighery 10905)			
156.	5411 <i>Calothamnus hirsutus</i>			
157.	5415 <i>Calothamnus lateralis</i>			
158.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
159.	5439 <i>Calytrix angulata</i> (Yellow Starflower)			
160.	5458 <i>Calytrix flavescens</i> (Summer Starflower)			
161.	5460 <i>Calytrix fraseri</i> (Pink Summer Calytrix)			
162.	30883 <i>Canis lupus</i> subsp. <i>familiaris</i> (Dog)	Y		
163.	2795 <i>Carpobrotus edulis</i> (Hottentot Fig)	Y		
164.	1162 <i>Cartonema phylloides</i>			
165.	2957 <i>Cassytha racemosa</i> (Dodder Laurel)			
166.	1121 <i>Centrolepis aristata</i> (Pointed Centrolepis)			
167.	1125 <i>Centrolepis drummondiana</i>			
168.	1134 <i>Centrolepis polygyna</i> (Wiry Centrolepis)			
169.	17685 <i>Chaetanthus aristatus</i>			
170.	24186 <i>Chalinolobus gouldii</i> (Gould's Wattle Bat)			
171.	1280 <i>Chamaescilla corymbosa</i> (Blue Squill)			
172.	24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)			
173.	43380 <i>Chelodina colliei</i> (South-western Snake-necked Turtle)			

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174.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
175.	2490 <i>Chenopodium glaucum</i> (Glaucous Goosefoot)	Y		
176.	<i>Cherax preissii</i>			
177.	763 <i>Chorizandra enodis</i> (Black Bristlerush)			
178.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
179.	<i>Chroicocephalus novaehollandiae</i>			
180.	6543 <i>Cicendia filiformis</i> (Slender Cicendia)	Y		
181.	24288 <i>Circus approximans</i> (Swamp Harrier)			
182.	24289 <i>Circus assimilis</i> (Spotted Harrier)			
183.	7937 <i>Cirsium vulgare</i> (Spear Thistle, Scotch Thistle)	Y		
184.	28208 <i>Cladonia cervicornis</i> subsp. <i>verticillata</i>			
185.	24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
186.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
187.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		
188.	4554 <i>Comesperma flavum</i>			
189.	6348 <i>Conostephium pendulum</i> (Pearl Flower)			
190.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
191.	11695 <i>Conostylis festucacea</i> subsp. <i>festucacea</i>			
192.	1436 <i>Conostylis juncea</i>			
193.	1455 <i>Conostylis setosa</i> (White Cottonhead)			
194.	7939 <i>Conyza bonariensis</i> (Flaxleaf Fleabane)	Y		
195.	7941 <i>Conyza parva</i>	Y		
196.	20074 <i>Conyza sumatrensis</i>	Y		
197.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
198.	38776 <i>Cortinarius phalarus</i>			
199.	25592 <i>Corvus coronoides</i> (Australian Raven)			
200.	24417 <i>Corvus coronoides</i> subsp. <i>perplexus</i> (Australian Raven)			
201.	1285 <i>Corynotheca micrantha</i> (Sand Lily)			
202.	7945 <i>Cotula coronopifolia</i> (Waterbuttons)	Y		
203.	24671 <i>Coturnix pectoralis</i> (Stubble Quail)			
204.	25701 <i>Coturnix ypsilophora</i> (Brown Quail)			
205.	24673 <i>Coturnix ypsilophora</i> subsp. <i>australis</i> (Brown Quail)			
206.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
207.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
208.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			
209.	25398 <i>Crinia georgiana</i> (Quacking Frog)			
210.	25400 <i>Crinia insignifera</i> (Squelching Froglet)			
211.	30893 <i>Cryptoblepharus buchananii</i>			
212.	25027 <i>Ctenotus australis</i>			
213.	768 <i>Cyathochaeta avenacea</i>			
214.	24322 <i>Cygnus atratus</i> (Black Swan)			
215.	783 <i>Cyperus congestus</i> (Dense Flat-sedge)	Y		
216.	815 <i>Cyperus tenellus</i> (Tiny Flatsedge)	Y		
217.	10916 <i>Cyrtostylis huegelii</i>			
218.	17692 <i>Cytgonidium leptocarpoides</i>			
219.	30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
220.	7454 <i>Dampiera linearis</i> (Common Dampiera)			
221.	7462 <i>Dampiera pedunculata</i>			
222.	7484 <i>Dampiera trigona</i> (Angled-stem Dampiera)			
223.	25673 <i>Daphoenositta chrysoptera</i> (Varied Sittella)			
224.	5508 <i>Darwinia citriodora</i> (Lemon-scented Darwinia)			
225.	1218 <i>Dasypogon bromellifolius</i> (Pineapple Bush)			
226.	3832 <i>Daviesia physodes</i>			
227.	25766 <i>Delma fraseri</i> (Fraser's Legless Lizard)			
228.	24999 <i>Delma grayii</i>			
229.	25296 <i>Demansia psammophis</i> subsp. <i>reticulata</i> (Yellow-faced Whipsnake)			
230.	15831 <i>Desmocladius castaneus</i>			
231.	16595 <i>Desmocladius flexuosus</i>			
232.	1259 <i>Dianella revoluta</i> (Blueberry Lily)			
233.	25607 <i>Dicaeum hirundinaceum</i> (Mistletoebird)			
234.	306 <i>Dichelachne crinita</i> (Longhair Plumegrass)			
235.	1287 <i>Dichopogon capillipes</i>			
236.	17838 <i>Dielsia stenostachya</i>			
237.	<i>Dingosa serrata</i>			
238.	1634 <i>Diuris laxiflora</i> (Bee Orchid)			
239.	3095 <i>Drosera erythrorhiza</i> (Red Ink Sundew)			
240.	13217 <i>Drosera erythrorhiza</i> subsp. <i>erythrorhiza</i>			
241.	3097 <i>Drosera gigantea</i> (Giant Sundew)			
242.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
243.	3101 <i>Drosera heterophylla</i> (Swamp Rainbow)			

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244.	3109 <i>Drosera menziesii</i> (Pink Rainbow)			
245.	11853 <i>Drosera menziesii</i> subsp. <i>menziesii</i>			
246.	3113 <i>Drosera neesii</i> (Jewel Rainbow)			
247.	13188 <i>Drosera paleacea</i> subsp. <i>paleacea</i>			
248.	3124 <i>Drosera pulchella</i> (Pretty Sundew)			
249.	8911 <i>Drosera rosulata</i>			
250.	<i>Drosera</i> sp. "climbing"			
251.	2501 <i>Dysphania glomulifera</i>			
252.	11368 <i>Dysphania glomulifera</i> subsp. <i>glomulifera</i>			
253.	25100 <i>Egernia napoleonis</i>			
254.	<i>Egretta garzetta</i>			
255.	<i>Egretta novaehollandiae</i>			
256.	347 <i>Ehrlharta calycina</i> (Perennial Veldt Grass)	Y		
257.	<i>Ehrlharta</i> sp.			
258.	<i>Elanus axillaris</i>			
259.	822 <i>Eleocharis acuta</i> (Common Spikerush)			
260.	47937 <i>Eiseyornis melanops</i> (Black-fronted Dotterel)			
261.	<i>Eolophus roseicapillus</i>			
262.	24652 <i>Eopsaltria georgiana</i> (White-breasted Robin)			
263.	1645 <i>Epilema grandiflorum</i> (Babe-in-a-cradle)			
264.	6131 <i>Epilobium billardiereanum</i> (Glabrous Willow Herb)			
265.	24567 <i>Epthianura albifrons</i> (White-fronted Chat)			
266.	376 <i>Eragrostis curvula</i> (African Lovegrass)	Y		
267.	379 <i>Eragrostis elongata</i> (Clustered Lovegrass)			
268.	<i>Eragrostis</i> sp.			
269.	1646 <i>Eriochilus dilatatus</i> (White Bunny Orchid)			
270.	15414 <i>Eriochilus helonomos</i>			
271.	15415 <i>Eriochilus scaber</i> subsp. <i>scaber</i>			
272.	6219 <i>Eryngium pinnatifidum</i> (Blue Devils)			
273.	24379 <i>Erythronys cinctus</i> (Red-kneed Dotterel)			
274.	<i>Eucalyptus grandis</i>			
275.	5790 <i>Eucalyptus todtiana</i> (Coastal Blackbutt)			
276.	3872 <i>Euchilopsis linearis</i> (Swamp Pea)			
277.	4648 <i>Euphorbia terracina</i> (Geraldton Carnation Weed)	Y		
278.	24368 <i>Eurostopodus argus</i> (Spotted Nightjar)			
279.	3880 <i>Eutaxia virgata</i>			
280.	835 <i>Evandra pauciflora</i>			
281.	25621 <i>Falco berigora</i> (Brown Falcon)			
282.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
283.	25623 <i>Falco longipennis</i> (Australian Hobby)			
284.	24041 <i>Felis catus</i> (Cat)	Y		
285.	1515 <i>Ferraria crispa</i> (Black Flag)	Y		
286.	894 <i>Fimbristylis velata</i>			
287.	25727 <i>Fulica atra</i> (Eurasian Coot)			
288.	24761 <i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)			
289.	907 <i>Gahnia trifida</i> (Coast Saw-sedge)			
290.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
291.	24763 <i>Gallinula tenebrosa</i> subsp. <i>tenebrosa</i> (Dusky Moorhen)			
292.	25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)			
293.	25530 <i>Gerygone fusca</i> (Western Gerygone)			
294.	1520 <i>Gladiolus caryophyllaceus</i> (Wild Gladiolus)	Y		
295.	1524 <i>Gladiolus undulatus</i> (Wild Gladiolus)	Y		
296.	17043 <i>Glyceria declinata</i>	Y		
297.	47962 <i>Glyciphila melanops</i> (Tawny-crowned Honeyeater)			
298.	12624 <i>Gnephosis angianthoides</i>			
299.	3948 <i>Gompholobium capitatum</i>			
300.	3954 <i>Gompholobium polymorphum</i>			
301.	3957 <i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			
302.	6160 <i>Gonocarpus paniculatus</i>			
303.	6161 <i>Gonocarpus pithyoides</i>			
304.	12551 <i>Goodenia micrantha</i>			
305.	7538 <i>Goodenia pulchella</i>			
306.	19286 <i>Goodenia pulchella</i> subsp. Coastal Plain A (M. Hislop 634)			
307.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
308.	19628 <i>Grevillea bipinnatifida</i> subsp. <i>bipinnatifida</i>			
309.	13429 <i>Grevillea diversifolia</i> subsp. <i>diversifolia</i>			
310.	<i>Grevillea robusta</i>			Y
311.	1475 <i>Haemodorum spicatum</i> (Mardja)			
312.	2179 <i>Hakea marginata</i>			
313.	2197 <i>Hakea prostrata</i> (Harsh Hakea)			

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314.	2212 <i>Hakea sulcata</i> (Furrowed Hakea)			
315.	2216 <i>Hakea varia</i> (Variable-leaved Hakea)			
316.	24293 <i>Haliaeetus leucogaster</i> (White-bellied Sea-Eagle)			
317.	24295 <i>Haliastur sphenurus</i> (Whistling Kite)			
318.	25410 <i>Heleioporus eyrei</i> (Moaning Frog)			
319.	<i>Hemiandra ?pungens</i>			Y
320.	6639 <i>Hemiandra pungens</i> (Snakebush)			
321.	38320 <i>Hemiandra</i> sp. <i>Jurien</i> (B.J. Conn & M.E. Tozer BJC 3885)			
322.	25119 <i>Hemiergis quadrilineata</i>			
323.	1293 <i>Hensmania turbinata</i>			
324.	19778 <i>Hibbertia glomerata</i> subsp. <i>darlingensis</i>			
325.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
326.	48381 <i>Hibbertia striata</i>			
327.	5173 <i>Hibbertia subvaginata</i>			
328.	47965 <i>Hieraaetus morphnoides</i> (Little Eagle)			
329.	25734 <i>Himantopus himantopus</i> (Black-winged Stilt)			
330.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
331.	444 <i>Holcus lanatus</i> (Yorkshire Fog)	Y		
332.	6222 <i>Homalosciadium homalocarpum</i>			
333.	3968 <i>Hovea trisperma</i> (Common Hovea)			
334.	12859 <i>Hovea trisperma</i> var. <i>trisperma</i>			
335.	12741 <i>Hyalosperma cotula</i>			
336.	6223 <i>Hydrocotyle alata</i>			
337.	6226 <i>Hydrocotyle callicarpa</i> (Small Pennywort)			
338.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
339.	35070 <i>Hypocalymma angustifolium</i> subsp. <i>Swan Coastal Plain</i> (G.J. Keighery 16777)			
340.	5825 <i>Hypocalymma robustum</i> (Swan River Myrtle)			
341.	8086 <i>Hypochaeris glabra</i> (Smooth Catsear)	Y		
342.	1070 <i>Hypolaena exsulca</i>			
343.	17841 <i>Hypolaena pubescens</i>			
344.	910 <i>Isolepis cernua</i> (Nodding Club-rush)			
345.	912 <i>Isolepis cyperoides</i>			
346.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
347.	919 <i>Isolepis oldfieldiana</i>			
348.	924 <i>Isolepis stellata</i> (Star Club-rush)			
349.	2227 <i>Isopogon divergens</i> (Spreading Coneflower)			
350.	3992 <i>Isotropis cuneifolia</i> (Granny Bonnets)			
351.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
352.	1177 <i>Juncus articulatus</i> (Jointed Rush)	Y		
353.	1180 <i>Juncus capitatus</i> (Capitate Rush)	Y		
354.	4044 <i>Kennedia prostrata</i> (Scarlet Runner)			
355.	5832 <i>Kunzea ericifolia</i> (Spearwood, Pondil)			
356.	15498 <i>Kunzea glabrescens</i> (Spearwood)			
357.	5835 <i>Kunzea micrantha</i>			
358.	20019 <i>Lachnagrostis filiformis</i>			
359.	19955 <i>Lachnagrostis plebeia</i>			
360.	8095 <i>Lactuca saligna</i> (Wild Lettuce, Willow-leaf Lettuce)	Y		
361.	24511 <i>Larus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Silver Gull)			
362.	4052 <i>Latrobea tenella</i>			
363.	11911 <i>Laxmannia ramosa</i> subsp. <i>ramosa</i>			
364.	11464 <i>Laxmannia sessiliflora</i> subsp. <i>australis</i>			
365.	1309 <i>Laxmannia squarrosa</i>			
366.	7572 <i>Lechenaultia expansa</i>			
367.	7574 <i>Lechenaultia floribunda</i> (Free-flowering Leschenaultia)			
368.	925 <i>Lepidosperma angustatum</i>			
369.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
370.	940 <i>Lepidosperma pubisquamum</i>			
371.	945 <i>Lepidosperma squamatum</i>			
372.	1653 <i>Leporella fimbriata</i> (Hare Orchid)			
373.	1077 <i>Leptocarpus canus</i> (Hoary Twine-rush)			
374.	1078 <i>Leptocarpus coangustatus</i>			
375.	19833 <i>Leptocarpus laxus</i>			
376.	46382 <i>Leptocarpus roycei</i>			
377.	15418 <i>Leptoceras menziesii</i>			
378.	5850 <i>Leptospermum laevigatum</i> (Coast Teatree)	Y		
379.	25131 <i>Lerista distinguenda</i>			
380.	25133 <i>Lerista elegans</i>			
381.	6360 <i>Leucopogon australis</i> (Spiked Beard-heath)			
382.	6374 <i>Leucopogon conostephioides</i>			
383.	6416 <i>Leucopogon nutans</i> (Drooping Leucopogon)			

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384.	40803 <i>Leucopogon squarrosus</i> subsp. <i>squarrosus</i>			
385.	6447 <i>Leucopogon strictus</i>			
386.	6451 <i>Leucopogon tenuis</i>			
387.	7677 <i>Levenhookia stipitata</i> (Common Stylewort)			
388.	25005 <i>Lialis burtonis</i>			
389.	31280 <i>Lichenomphalia chromacea</i>			
390.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
391.	25415 <i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
392.	25378 <i>Litoria adelaidensis</i> (Slender Tree Frog)			
393.	25388 <i>Litoria moorei</i> (Motorbike Frog)			
394.	7408 <i>Lobelia tenuior</i> (Slender Lobelia)			
395.	478 <i>Lolium rigidum</i> (Wimmera Ryegrass)	Y		
396.	1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)			
397.	1228 <i>Lomandra hermaphrodita</i>			
398.	1232 <i>Lomandra micrantha</i> (Small-flower Mat-rush)			
399.	1246 <i>Lomandra suaveolens</i>			
400.	<i>Lophoictinia isura</i>			
401.	4059 <i>Lotus angustissimus</i> (Narrowleaf Trefoil)	Y		
402.	<i>Lycidas michaelsoni</i>			
403.	<i>Lycosa ariadnae</i>			
404.	1097 <i>Lyginia barbata</i>			
405.	<i>Lyginia barbata/imberbis</i>			
406.	18049 <i>Lyginia imberbis</i>			
407.	2838 <i>Macarthuria apetala</i>			
408.	2839 <i>Macarthuria australis</i>			
409.	24132 <i>Macropus fuliginosus</i> (Western Grey Kangaroo)			
410.	18119 <i>Macrozamia fraseri</i>			
411.	85 <i>Macrozamia riedlei</i> (<i>Zamia</i> , Djiridji)			
412.	24326 <i>Malacorhynchus membranaceus</i> (Pink-eared Duck)			
413.	25650 <i>Malurus elegans</i> (Red-winged Fairy-wren)			
414.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
415.	24583 <i>Manorina flavigula</i> (Yellow-throated Miner)			
416.	<i>Marchantia berteroaana</i>			
417.	25758 <i>Megalurus gramineus</i> (Little Grassbird)			
418.	37580 <i>Melaleuca acutifolia</i>			
419.	13273 <i>Melaleuca incana</i> subsp. <i>incana</i>			
420.	5926 <i>Melaleuca lateritia</i> (Robin Redbreast Bush)			
421.	20297 <i>Melaleuca osullivanii</i>			
422.	5952 <i>Melaleuca preissiana</i> (Moonah)			
423.	5959 <i>Melaleuca raphiophylla</i> (Swamp Paperbark)			
424.	5978 <i>Melaleuca teretifolia</i> (Banbar)			
425.	5980 <i>Melaleuca thymoides</i>			
426.	5984 <i>Melaleuca uncinata</i> (Broom Bush, Kwidjard)			
427.	5987 <i>Melaleuca viminea</i> (Mohan)			
428.	25184 <i>Menetia greyii</i>			
429.	953 <i>Mesomelaena graciliceps</i>			
430.	<i>Microcarbo melanoleucos</i>			
431.	485 <i>Microlaena stipoides</i> (Weeping Grass)			
432.	1658 <i>Microtis atrata</i> (Swamp Mignonette Orchid)			
433.	8106 <i>Millotia tenuifolia</i> (Soft Millotia)			
434.	25542 <i>Milvus migrans</i> (Black Kite)			
435.	<i>Missulena granulosa</i>			
436.	7410 <i>Monopsis debilis</i>	Y		
437.	37440 <i>Monopsis debilis</i> var. <i>depressa</i>	Y		
438.	19179 <i>Moraea flaccida</i> (One-leaf Cape Tulip)	Y		
439.	24223 <i>Mus musculus</i> (House Mouse)	Y		
440.	25610 <i>Myiagra inquieta</i> (Restless Flycatcher)			
441.	8117 <i>Myriocephalus helichrysoideus</i>			
442.	24738 <i>Neophema elegans</i> (Elegant Parrot)			
443.	492 <i>Neurachne alopecuroidea</i> (Foxtail Mulga Grass)			
444.	<i>Nidula emodensis</i>			
445.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
446.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
447.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
448.	24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)			
449.	24742 <i>Nymphicus hollandicus</i> (Cockatiel)			
450.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
451.	8143 <i>Olearia paucidentata</i> (Autumn Scrub Daisy)			
452.	<i>Ommatoiulus moreleti</i>			
453.	<i>Ommatoiulus moreleti</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
454.	24085 <i>Oryctolagus cuniculus</i> (Rabbit)	Y		
455.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
456.	<i>Pandion cristatus</i>			
457.	502 <i>Panicum capillare</i> (Witchgrass)	Y		
458.	27892 <i>Pannoparmelia wilsonii</i>			
459.	3618 <i>Paraserianthes lophantha</i> (Albizia)			
460.	25253 <i>Parasuta gouldii</i>			
461.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
462.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
463.	7090 <i>Parentucellia viscosa</i> (Sticky Bartsia)	Y		
464.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
465.	30472 <i>Patersonia occidentalis</i> var. <i>occidentalis</i>			
466.	4343 <i>Pelargonium capitatum</i> (Rose Pelargonium)	Y		
467.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
468.	6006 <i>Pericalymma ellipticum</i> (Swamp Teatree)			
469.	16477 <i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			
470.	11020 <i>Persicaria hydropiper</i>			
471.	11052 <i>Persicaria prostrata</i>			
472.	48060 <i>Petrochelidon ariel</i> (Fairy Martin)			
473.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
474.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
475.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
476.	20391 <i>Petrophile juncifolia</i>			
477.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
478.	2308 <i>Petrophile seminuda</i>			
479.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
480.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
481.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
482.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
483.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
484.	25587 <i>Phaps elegans</i> (Brush Bronzewing)			
485.	18529 <i>Philothea spicata</i> (Pepper and Salt)			
486.	1172 <i>Philydrella drummondii</i>			
487.	14306 <i>Philydrella pygmaea</i> subsp. <i>pygmaea</i>			
488.	1478 <i>Phlebocarya ciliata</i>			
489.	1479 <i>Phlebocarya filifolia</i>			
490.	48071 <i>Phylidonyris niger</i> (White-cheeked Honeyeater)			
491.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
492.	16177 <i>Phyllangium paradoxum</i>			
493.	4 <i>Phylloglossum drummondii</i> (Pigmy Clubmoss)			
494.	4141 <i>Phyllota gracilis</i>			
495.	<i>Phytophthora cinnamomi</i>			
496.	11404 <i>Pimelea imbricata</i> var. <i>major</i>			
497.	11402 <i>Pimelea imbricata</i> var. <i>piligera</i>			
498.	5252 <i>Pimelea lanata</i>			
499.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
500.	24747 <i>Platycercus spurius</i> (Red-capped Parrot)			
501.	25721 <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)			
502.	25007 <i>Pletholax gracilis</i> subsp. <i>gracilis</i> (Keeled Legless Lizard)			
503.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
504.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
505.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
506.	38826 <i>Podoserpula pusio</i>			
507.	8183 <i>Podotheca chrysantha</i> (Yellow Podotheca)			
508.	8184 <i>Podotheca gnaphalioides</i> (Golden Long-heads)			
509.	<i>Podotheca</i> sp.			
510.	25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)			
511.	24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)			
512.	24681 <i>Poliiocephalus poliocephalus</i> (Hoary-headed Grebe)			
513.	4578 <i>Polygala virgata</i>	Y		
514.	582 <i>Polypogon monspeliensis</i> (Annual Beardgrass)	Y		
515.	583 <i>Polypogon tenellus</i>			
516.	25722 <i>Polytelis anthopeplus</i> (Regent Parrot)			
517.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
518.	24767 <i>Porphyrio porphyrio</i> subsp. <i>bellus</i> (Purple Swamphen)			
519.	24769 <i>Porzana fluminea</i> (Australian Spotted Crane)			
520.	25732 <i>Porzana pusilla</i> (Baillon's Crane)			
521.	24771 <i>Porzana tabuensis</i> (Spotless Crane)			
522.	1670 <i>Prasophyllum drummondii</i> (Swamp Leek Orchid)			
523.	1673 <i>Prasophyllum gibbosum</i> (Humped Leek Orchid)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
524.	25511 <i>Pseudonaja affinis</i> (Dugite)			
525.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
526.	42416 <i>Pseudonaja mengdeni</i> (Western Brown Snake)			
527.	25433 <i>Pseudophryne guentheri</i> (Crawling Toadlet)			
528.	48085 <i>Psittacula krameri</i> (Indian Ringnecked Parrot, Rose-ringed Parakeet)	Y		
529.	44723 <i>Pterostylis glebosa</i>			
530.	1693 <i>Pterostylis recurva</i> (Jug Orchid)			
531.	12217 <i>Pterostylis sanguinea</i>			
532.	18655 <i>Pterostylis</i> sp. <i>crinkled leaf</i> (G.J. Keighery 13426)			
533.	1698 <i>Pterostylis vittata</i> (Banded Greenhood)			
534.	4177 <i>Pultenaea ochreatea</i>			
535.	4181 <i>Pultenaea reticulata</i>			
536.	<i>Purpurecephalus spurius</i>			
537.	25008 <i>Pygopus lepidopodus</i> (Common Scaly Foot)			
538.	16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)			
539.	8195 <i>Quinetia urvillei</i>			
540.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
541.	24776 <i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			
542.	6012 <i>Regelia ciliata</i>			
543.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
544.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
545.	1556 <i>Romulea rosea</i> (Guildford Grass)	Y		
546.	7619 <i>Scaevola lanceolata</i> (Long-leaved Scaevola)			
547.	7636 <i>Scaevola platyphylla</i> (Broad-leaved Fanflower)			
548.	6263 <i>Schoenolaena juncea</i>			
549.	973 <i>Schoenus asperocarpus</i> (Poison Sedge)			
550.	984 <i>Schoenus curvifolius</i>			
551.	986 <i>Schoenus efoliatus</i>			
552.	992 <i>Schoenus grandiflorus</i> (Large Flowered Bogrush)			
553.	1006 <i>Schoenus odontocarpus</i>			
554.	17614 <i>Schoenus plumosus</i>			
555.	1011 <i>Schoenus rigens</i>			
556.	1018 <i>Schoenus subfascicularis</i>			
557.	1023 <i>Schoenus tenellus</i>			
558.	6033 <i>Scholtzia involucrata</i> (Spiked Scholtzia)			
559.	6 <i>Selaginella gracillima</i> (Tiny Clubmoss)			
560.	25878 <i>Senecio condylus</i>			
561.	8203 <i>Senecio diaschides</i>			
562.	25534 <i>Sericornis frontalis</i> (White-browed Scrubwren)			
563.	24279 <i>Sericornis frontalis</i> subsp. <i>maculatus</i> (White-browed Scrubwren)			
564.	8225 <i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
565.	30948 <i>Smicromis brevirostris</i> (Weebill)			
566.	1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)			
567.	1560 <i>Sparaxis pillansii</i> (Harlequin Flower)	Y		
568.	2912 <i>Spergula arvensis</i> (Corn Spurry)	Y		
569.	4205 <i>Sphaerolobium linophyllum</i>			
570.	24645 <i>Stagonopleura oculata</i> (Red-eared Firetail)			
571.	19403 <i>Stenopetalum gracile</i>			
572.	24329 <i>Stictonetta naevosa</i> (Freckled Duck)			
573.	2316 <i>Stirlingia latifolia</i> (Blueboy)			
574.	25597 <i>Strepera versicolor</i> (Grey Currawong)			
575.	25589 <i>Streptopelia chinensis</i> (Spotted Turtle-Dove)	Y		
576.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
577.	30950 <i>Streptopelia senegalensis</i> subsp. <i>senegalensis</i> (Laughing Turtle-Dove)	Y		
578.	7684 <i>Stylidium amoenum</i> (Lovely Triggerplant)			
579.	30278 <i>Stylidium androsaceum</i>			
580.	7693 <i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
581.	7696 <i>Stylidium calcaratum</i> (Book Triggerplant)			
582.	7713 <i>Stylidium dichotomum</i> (Pins-and-needles)			
583.	7717 <i>Stylidium divaricatum</i> (Daddy-long-legs)			
584.	7719 <i>Stylidium ecorne</i> (Foot Triggerplant)			
585.	7721 <i>Stylidium emarginatum</i> (Biddy-four-legs)			
586.	7734 <i>Stylidium guttatum</i> (Dotted Triggerplant)			
587.	7742 <i>Stylidium inundatum</i> (Hundreds and Thousands)			
588.	7774 <i>Stylidium piliferum</i> (Common Butterfly Triggerplant)			
589.	7785 <i>Stylidium repens</i> (Matted Triggerplant)			
590.	7790 <i>Stylidium roseoalatum</i> (Pink-wing Triggerplant)			
591.	45594 <i>Stylidium tenue</i> subsp. <i>majusculum</i> (Showy Fountain Triggerplant)			
592.	7806 <i>Stylidium utricularioides</i> (Pink Fan Triggerplant)			
593.	1260 <i>Stypandra glauca</i> (Blind Grass)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
594.	6476 <i>Styphelia tenuiflora</i> (Common Pinheath)			
595.	<i>Supunna funerea</i>			
596.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
597.	24682 <i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
598.	24331 <i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
599.	37360 <i>Tamarix ramosissima</i>	Y		
600.	24167 <i>Tarsipes rostratus</i> (Honey Possum, Noolbenger)			
601.	20135 <i>Taxandria linearifolia</i>			
602.	48341 <i>Tetratheca hirsuta</i> subsp. <i>viminea</i>			
603.	20728 <i>Thelymitra xanthotricha</i>			
604.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
605.	1318 <i>Thysanotus arbuscula</i>			
606.	1338 <i>Thysanotus manglesianus</i> (Fringed Lily)			
607.	<i>Thysanotus manglesianus/patersonii</i> complex			
608.	1339 <i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
609.	1351 <i>Thysanotus sparteus</i>			
610.	1354 <i>Thysanotus tenellus</i>			
611.	1357 <i>Thysanotus thyrsoides</i>			
612.	1358 <i>Thysanotus triandrus</i>			
613.	25519 <i>Tiliqua rugosa</i>			
614.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
615.	6280 <i>Trachymene pilosa</i> (Native Parsnip)			
616.	17684 <i>Tremulina tremula</i>			
617.	1481 <i>Tribonanthes australis</i>			
618.	1485 <i>Tribonanthes violacea</i>			
619.	48141 <i>Tribonyx ventralis</i> (Black-tailed Native-hen)			
620.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
621.	24158 <i>Trichosurus vulpecula</i> subsp. <i>vulpecula</i> (Common Brushtail Possum)			
622.	1361 <i>Tricoryne elatior</i> (Yellow Autumn Lily)			
623.	1363 <i>Tricoryne tenella</i>			
624.	48147 <i>Turnix varius</i> (Painted Button-quail)			
625.	24852 <i>Tyto alba</i> subsp. <i>delicatula</i> (Barn Owl)			
626.	<i>Urodacus novaehollandiae</i>			
627.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
628.	7145 <i>Utricularia menziesii</i> (Redcoats)			
629.	24386 <i>Vanellus tricolor</i> (Banded Lapwing)			
630.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
631.	25225 <i>Varanus rosenbergi</i> (Heath Monitor)			
632.	<i>Venator immansueta</i>			
633.	6076 <i>Verticordia densiflora</i> (Compacted Featherflower)			
634.	12411 <i>Verticordia densiflora</i> var. <i>cespitosa</i>			
635.	6077 <i>Verticordia drummondii</i> (Drummond's Featherflower)			
636.	6110 <i>Verticordia plumosa</i> (Plumed Featherflower)			
637.	12449 <i>Verticordia plumosa</i> var. <i>brachyphylla</i>			
638.	722 <i>Vulpia bromoides</i> (Squirrel Tail Fescue)	Y		
639.	724 <i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		
640.	7389 <i>Wahlenbergia preissii</i>			
641.	18108 <i>Watsonia meriana</i> var. <i>bulbillifera</i>	Y		
642.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
643.	6289 <i>Xanthosia huegelii</i>			
644.	1049 <i>Zantedeschia aethiopica</i> (Arum Lily)	Y		
645.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			

Conservation Codes

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

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

NatureMap Species Report

Created By Guest user on 26/10/2017

Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 115° 56' 41" E, 32° 10' 23" S
Buffer 5km
Group By Kingdom

Kingdom	Species	Records
Animalia	244	27401
Fungi	7	34
Plantae	394	869
TOTAL	645	28304

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Animalia				
1.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
2.	24261 <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
3.	24262 <i>Acanthiza inornata</i> (Western Thornbill)			
4.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
5.	25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
6.	25536 <i>Accipiter fasciatus</i> (Brown Goshawk)			
7.	42368 <i>Acritoscincus trilineatus</i> (Western Three-lined Skink)			
8.	25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)			
9.	<i>Aname mainae</i>			
10.	<i>Aname tepperi</i>			
11.	24310 <i>Anas castanea</i> (Chestnut Teal)			
12.	24312 <i>Anas gracilis</i> (Grey Teal)			
13.	24315 <i>Anas rhynchotis</i> (Australasian Shoveler)			
14.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
15.	47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)			
16.	<i>Anser anser</i>			
17.	24561 <i>Anthochaera carunculata</i> (Red Wattlebird)			
18.	24562 <i>Anthochaera lunulata</i> (Western Little Wattlebird)			
19.	24991 <i>Aprasia repens</i> (Sand-plain Worm-lizard)			
20.	25554 <i>Apus pacificus</i> (Fork-tailed Swift, Pacific Swift)		IA	
21.	24285 <i>Aquila audax</i> (Wedge-tailed Eagle)			
22.	24337 <i>Ardea garzetta</i> subsp. <i>nigripes</i> (Little Egret)			
23.	25558 <i>Ardea ibis</i> (Cattle Egret)		IA	
24.	41324 <i>Ardea modesta</i> (great egret, white egret)		IA	
25.	24340 <i>Ardea novaehollandiae</i> (White-faced Heron)			
26.	24341 <i>Ardea pacifica</i> (White-necked Heron)			
27.	25736 <i>Arenaria interpres</i> (Ruddy Turnstone)		IA	
28.	25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)			
29.	24352 <i>Artamus cinereus</i> subsp. <i>melanops</i> (Black-faced Woodswallow)			
30.	24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)			
31.	<i>Artoria flavimana</i>			
32.	<i>Artoria linnaei</i>			
33.	<i>Asadipus kunderang</i>			
34.	24318 <i>Aythya australis</i> (Hardhead)			
35.	<i>Barnardius zonarius</i>			
36.	24319 <i>Biziura lobata</i> (Musk Duck)			
37.	24345 <i>Botaurus poiciloptilus</i> (Australasian Bittern)		T	
38.	25713 <i>Cacatua galerita</i> (Sulphur-crested Cockatoo)			
39.	25714 <i>Cacatua pastinator</i> (Western Long-billed Corella)			
40.	25715 <i>Cacatua roseicapilla</i> (Galah)			
41.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
42.	24729 <i>Cacatua tenuirostris</i> (Eastern Long-billed Corella)	Y		
43.	25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
44.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
45.	24779 <i>Calidris acuminata</i> (Sharp-tailed Sandpiper)		IA	
46.	24784 <i>Calidris ferruginea</i> (Curlew Sandpiper)		T	
47.	24786 <i>Calidris melanotos</i> (Pectoral Sandpiper)		IA	
48.	24788 <i>Calidris ruficollis</i> (Red-necked Stint)		IA	
49.	24789 <i>Calidris subminuta</i> (Long-toed Stint)		IA	
50.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
51.	24731 <i>Calyptorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black-Cockatoo)		T	
52.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo (short-billed black-cockatoo), Carnaby's Cockatoo)		T	
53.	48400 <i>Calyptorhynchus</i> sp. (white-tailed black cockatoo)		T	
54.	30883 <i>Canis lupus</i> subsp. <i>familiaris</i> (Dog)	Y		
55.	24186 <i>Chalinolobus gouldii</i> (Gould's Wattled Bat)			
56.	25575 <i>Charadrius leschenaultii</i> (Greater Sand Plover)		IA	
57.	24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)			
58.	43380 <i>Chelodina colliei</i> (South-western Snake-necked Turtle)			
59.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
60.	<i>Cherax preissii</i>			
61.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
62.	<i>Chroicocephalus novaehollandiae</i>			
63.	24288 <i>Circus approximans</i> (Swamp Harrier)			
64.	24289 <i>Circus assimilis</i> (Spotted Harrier)			
65.	24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
66.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
67.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		
68.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
69.	25592 <i>Corvus coronoides</i> (Australian Raven)			
70.	24417 <i>Corvus coronoides</i> subsp. <i>perplexus</i> (Australian Raven)			
71.	24671 <i>Coturnix pectoralis</i> (Stubble Quail)			
72.	25701 <i>Coturnix ypsilophora</i> (Brown Quail)			
73.	24673 <i>Coturnix ypsilophora</i> subsp. <i>australis</i> (Brown Quail)			
74.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
75.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
76.	25398 <i>Crinia georgiana</i> (Quacking Frog)			
77.	25400 <i>Crinia insignifera</i> (Squelching Froglet)			
78.	30893 <i>Cryptoblepharus buchananii</i>			
79.	25027 <i>Ctenotus australis</i>			
80.	24322 <i>Cygnus atratus</i> (Black Swan)			
81.	30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
82.	25673 <i>Daphoenositta chrysoptera</i> (Varied Sittella)			
83.	25766 <i>Delma fraseri</i> (Fraser's Legless Lizard)			
84.	24999 <i>Delma grayii</i>			
85.	25296 <i>Demansia psammophis</i> subsp. <i>reticulata</i> (Yellow-faced Whipsnake)			
86.	25607 <i>Dicaeum hirundinaceum</i> (Mistletoebird)			
87.	<i>Dingosa serrata</i>			
88.	25100 <i>Egernia napoleonis</i>			
89.	<i>Egretta garzetta</i>			
90.	<i>Egretta novaehollandiae</i>			
91.	<i>Elanus axillaris</i>			
92.	47937 <i>Elseyornis melanops</i> (Black-fronted Dotterel)			
93.	<i>Eolophus roseicapillus</i>			
94.	24652 <i>Eopsaltria georgiana</i> (White-breasted Robin)			
95.	24567 <i>Epthianura albifrons</i> (White-fronted Chat)			
96.	24379 <i>Erythronyx cinctus</i> (Red-kneed Dotterel)			
97.	24368 <i>Eurostopodus argus</i> (Spotted Nightjar)			
98.	25621 <i>Falco berigora</i> (Brown Falcon)			
99.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
100.	25623 <i>Falco longipennis</i> (Australian Hobby)			
101.	25624 <i>Falco peregrinus</i> (Peregrine Falcon)		S	
102.	24041 <i>Felis catus</i> (Cat)	Y		
103.	25727 <i>Fulica atra</i> (Eurasian Coot)			
104.	24761 <i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)			
105.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
106.	24763 <i>Gallinula tenebrosa</i> subsp. <i>tenebrosa</i> (Dusky Moorhen)			
107.	25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)			
108.	47954 <i>Gelochelidon nilotica</i> (Gull-billed Tern)		IA	
109.	25530 <i>Gerygone fusca</i> (Western Gerygone)			
110.	47962 <i>Glyciphila melanops</i> (Tawny-crowned Honeyeater)			
111.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
112.	24293 <i>Haliaeetus leucogaster</i> (White-bellied Sea-Eagle)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
113.	24295 <i>Haliastur spheurnus</i> (Whistling Kite)			
114.	25410 <i>Heleioporus eyrei</i> (Moaning Frog)			
115.	25119 <i>Hemiergis quadrilineata</i>			
116.	47965 <i>Hieraaetus morphnoides</i> (Little Eagle)			
117.	25734 <i>Himantopus himantopus</i> (Black-winged Stilt)			
118.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
119.	24215 <i>Hydromys chrysogaster</i> (Water-rat, Rakali)		P4	
120.	25478 <i>Isoodon obesulus</i> (Southern Brown Bandicoot)		P4	
121.	24153 <i>Isoodon obesulus</i> subsp. <i>fusciventer</i> (Quenda, Southern Brown Bandicoot)		P4	
122.	47975 <i>Ixobrychus dubius</i> (Australian Little Bittern)		P4	
123.	24511 <i>Larus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Silver Gull)			
124.	33982 <i>Leioproctus contrarius</i> (short-tongued bee)		P3	
125.	33983 <i>Leioproctus douglasiellus</i> (short-tongued bee)		T	
126.	25131 <i>Lerista distinguenda</i>			
127.	25133 <i>Lerista elegans</i>			
128.	25147 <i>Lerista lineata</i> (Perth Slider, Lined Skink)		P3	
129.	25005 <i>Lialis burtonis</i>			
130.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
131.	25415 <i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
132.	25741 <i>Limosa limosa</i> (Black-tailed Godwit)		IA	
133.	25378 <i>Litoria adelaidensis</i> (Slender Tree Frog)			
134.	25388 <i>Litoria moorei</i> (Motorbike Frog)			
135.	<i>Lophoictinia isura</i>			
136.	<i>Lycidas michaelsoni</i>			
137.	<i>Lycosa ariadnae</i>			
138.	24132 <i>Macropus fuliginosus</i> (Western Grey Kangaroo)			
139.	24133 <i>Macropus irma</i> (Western Brush Wallaby)		P4	
140.	24326 <i>Malacorhynchus membranaceus</i> (Pink-eared Duck)			
141.	25650 <i>Malurus elegans</i> (Red-winged Fairy-wren)			
142.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
143.	24583 <i>Manorina flavigula</i> (Yellow-throated Miner)			
144.	25758 <i>Megalurus gramineus</i> (Little Grassbird)			
145.	25184 <i>Menetia greyii</i>			
146.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)		IA	
147.	<i>Microcarbo melanoleucos</i>			
148.	25542 <i>Milvus migrans</i> (Black Kite)			
149.	<i>Missulena granulosa</i>			
150.	24223 <i>Mus musculus</i> (House Mouse)	Y		
151.	25610 <i>Myiagra inquieta</i> (Restless Flycatcher)			
152.	24146 <i>Myrmecobius fasciatus</i> (Numbat, Walpurti)		T	
153.	33984 <i>Neopasiphae simplicior</i> (short-tongued bee)		T	
154.	24738 <i>Neophema elegans</i> (Elegant Parrot)			
155.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
156.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
157.	24194 <i>Nyctophilus geoffroyi</i> (Lesser Long-eared Bat)			
158.	24742 <i>Nymphicus hollandicus</i> (Cockatiel)			
159.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
160.	<i>Ommatolulus moreleti</i>			
161.	<i>Ommatolulus moreleti</i>			
162.	24085 <i>Oryctolagus cuniculus</i> (Rabbit)	Y		
163.	24328 <i>Oxyura australis</i> (Blue-billed Duck)		P4	
164.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
165.	<i>Pandion cristatus</i>			
166.	25543 <i>Pandion haliaetus</i> (Osprey)		IA	
167.	25253 <i>Parasuta gouldii</i>			
168.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
169.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
170.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
171.	48060 <i>Petrochelidon ariel</i> (Fairy Martin)			
172.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
173.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
174.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
175.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
176.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
177.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
178.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
179.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
180.	25587 <i>Phaps elegans</i> (Brush Bronzewing)			
181.	48071 <i>Phylidonyris niger</i> (White-cheeked Honeyeater)			
182.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			

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183.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
184.	24747 <i>Platycercus spurius</i> (Red-capped Parrot)			
185.	25721 <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)			
186.	24843 <i>Plegadis falcinellus</i> (Glossy Ibis)		IA	
187.	25007 <i>Pletholax gracilis</i> subsp. <i>gracilis</i> (Keeled Legless Lizard)			
188.	24382 <i>Pluvialis fulva</i> (Pacific Golden Plover)		IA	
189.	24383 <i>Pluvialis squatarola</i> (Grey Plover)		IA	
190.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
191.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
192.	25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)			
193.	24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)			
194.	24681 <i>Poliocephalus poliocephalus</i> (Hoary-headed Grebe)			
195.	25722 <i>Polytelis anthopeplus</i> (Regent Parrot)			
196.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
197.	24767 <i>Porphyrio porphyrio</i> subsp. <i>bellus</i> (Purple Swamphen)			
198.	24769 <i>Porzana fluminea</i> (Australian Spotted Crane)			
199.	25732 <i>Porzana pusilla</i> (Baillon's Crane)			
200.	24771 <i>Porzana tabuensis</i> (Spotless Crane)			
201.	25511 <i>Pseudonaja affinis</i> (Dugite)			
202.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
203.	42416 <i>Pseudonaja mengdeni</i> (Western Brown Snake)			
204.	25433 <i>Pseudophryne guentheri</i> (Crawling Toadlet)			
205.	48085 <i>Psittacula krameri</i> (Indian Ringnecked Parrot, Rose-ringed Parakeet)	Y		
206.	<i>Purpureicephalus spurius</i>			
207.	25008 <i>Pygopus lepidopodus</i> (Common Scaly Foot)			
208.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
209.	24776 <i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			
210.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
211.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
212.	25534 <i>Sericornis frontalis</i> (White-browed Scrubwren)			
213.	24279 <i>Sericornis frontalis</i> subsp. <i>maculatus</i> (White-browed Scrubwren)			
214.	30948 <i>Smicronis brevirostris</i> (Weebill)			
215.	24645 <i>Stagonopleura oculata</i> (Red-eared Firetail)			
216.	24516 <i>Stercorarius longicaudus</i> (long-tailed jaeger, long-tailed skua)		IA	
217.	24329 <i>Stictonetta naevosa</i> (Freckled Duck)			
218.	25597 <i>Strepera versicolor</i> (Grey Currawong)			
219.	25589 <i>Streptopelia chinensis</i> (Spotted Turtle-Dove)	Y		
220.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
221.	30950 <i>Streptopelia senegalensis</i> subsp. <i>senegalensis</i> (Laughing Turtle-Dove)	Y		
222.	<i>Supunna funerea</i>			
223.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
224.	24682 <i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
225.	24331 <i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
226.	24167 <i>Tarsipes rostratus</i> (Honey Possum, Noobenger)			
227.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
228.	25519 <i>Tiliqua rugosa</i>			
229.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
230.	48141 <i>Tribonyx ventralis</i> (Black-tailed Native-hen)			
231.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
232.	24158 <i>Trichosurus vulpecula</i> subsp. <i>vulpecula</i> (Common Brushtail Possum)			
233.	24806 <i>Tringa glareola</i> (Wood Sandpiper)		IA	
234.	24808 <i>Tringa nebularia</i> (Common Greenshank, greenshank)		IA	
235.	24809 <i>Tringa stagnatilis</i> (Marsh Sandpiper, little greenshank)		IA	
236.	48147 <i>Turnix varius</i> (Painted Button-quail)			
237.	24852 <i>Tyto alba</i> subsp. <i>delicatula</i> (Barn Owl)			
238.	<i>Urodacus novaehollandiae</i>			
239.	24386 <i>Vanellus tricolor</i> (Banded Lapwing)			
240.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
241.	25225 <i>Varanus rosenbergi</i> (Heath Monitor)			
242.	<i>Venator immansueta</i>			
243.	34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)		T	
244.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			
Fungi				
245.	28208 <i>Cladonia cervicornis</i> subsp. <i>verticillata</i>			
246.	38776 <i>Cortinarius phalarus</i>			
247.	31280 <i>Lichenomphalia chromacea</i>			
248.	<i>Nidula emodensis</i>			
249.	27892 <i>Pannoparmelia wilsonii</i>			
250.	<i>Phytophthora cinnamomi</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
251.	38826 <i>Podoserpula pusio</i>			
Plantae				
252.	3374 <i>Acacia huegelii</i>			
253.	3409 <i>Acacia lasiocarpa</i> (Panjang)			
254.	3502 <i>Acacia pulchella</i> (Prickly Moses)			
255.	15481 <i>Acacia pulchella</i> var. <i>glaberrima</i>			
256.	3527 <i>Acacia saligna</i> (Orange Wattle, Kudjong)			
257.	3557 <i>Acacia stenoptera</i> (Narrow Winged Wattle)			
258.	14970 <i>Adenanthos barbiger</i>			
259.	1775 <i>Adenanthos cygnorum</i> (Common Woollybush)			
260.	1791 <i>Adenanthos obovatus</i> (Basket Flower)			
261.	1261 <i>Agrostocrinum scabrum</i> (Blue Grass Lily)			
262.	184 <i>Aira caryophyllea</i> (Silvery Hairgrass)	Y		
263.	187 <i>Aira praecox</i> (Early Hairgrass)	Y		
264.	20184 <i>Amphipogon laguroides</i> subsp. <i>laguroides</i>			
265.	199 <i>Amphipogon strictus</i> (Greybeard Grass)			
266.	200 <i>Amphipogon turbinatus</i>			
267.	1411 <i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw, Kurulbrang)			
268.	11566 <i>Anigozanthos viridis</i> subsp. <i>viridis</i>			
269.	12724 <i>Anthotium junciforme</i>			
270.	3688 <i>Aotus gracillima</i>			
271.	3692 <i>Aotus procumbens</i>			
272.	1117 <i>Aphelia cyperoides</i>			
273.	17845 <i>Apodasmia ceramophila</i>			
274.	207 <i>Aristida contorta</i> (Bunched Kerosene Grass)			
275.	1264 <i>Arnocrinum preissii</i>			
276.	20350 <i>Astartea affinis</i> (West-coast Astartea)			
277.	20283 <i>Astartea scoparia</i> (Common Astartea)			
278.	7851 <i>Asteridea pulverulenta</i> (Common Bristle Daisy)			
279.	2471 <i>Atriplex prostrata</i> (Hastate Orache)	Y		
280.	17234 <i>Austrostipa compressa</i>			
281.	231 <i>Avellinia michelii</i>	Y		
282.	235 <i>Avena sativa</i> (Common Oat)	Y		
283.	42902 <i>Azolla rubra</i>			
284.	1800 <i>Banksia attenuata</i> (Slender Banksia, Piara)			
285.	1822 <i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
286.	1834 <i>Banksia menziesii</i> (Firewood Banksia)			
287.	1852 <i>Banksia telmatiaea</i> (Swamp Fox Banksia)			
288.	743 <i>Baumea juncea</i> (Bare Twigrush)			
289.	5393 <i>Beaufortia squarrosa</i> (Sand Beaufortia, Sand Bottlebrush, Puno)			
290.	1417 <i>Blancoa canescens</i> (Winter Bell)			
291.	16636 <i>Boronia crenulata</i> subsp. <i>viminea</i>			
292.	4417 <i>Boronia dichotoma</i>			
293.	4420 <i>Boronia fastigiata</i> (Bushy Boronia)			
294.	4441 <i>Boronia spathulata</i> (Boronia)			
295.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)			
296.	6341 <i>Brachyloma preissii</i> (Globe Heath)			
297.	7878 <i>Brachyscome iberidifolia</i>			
298.	<i>Briza ?maxima</i>			Y
299.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
300.	245 <i>Briza minor</i> (Shivery Grass)	Y		
301.	1383 <i>Burchardia bairdiae</i>			
302.	12770 <i>Burchardia congesta</i>			
303.	1385 <i>Burchardia multiflora</i> (Dwarf Burchardia)			
304.	3178 <i>Byblis gigantea</i> (Rainbow Plant)		P3	
305.	1277 <i>Caesia occidentalis</i>			
306.	1592 <i>Caladenia flava</i> (Cowslip Orchid)			
307.	15348 <i>Caladenia flava</i> subsp. <i>flava</i>			
308.	1596 <i>Caladenia huegelii</i> (Grand Spider Orchid)		T	
309.	1599 <i>Caladenia latifolia</i> (Pink Fairy Orchid)			
310.	15361 <i>Caladenia longicauda</i> subsp. <i>calcigena</i>			
311.	1605 <i>Caladenia marginata</i> (White Fairy Orchid)			
312.	15503 <i>Caladenia paludosa</i>			
313.	16365 <i>Calandrinia</i> sp. <i>Kenwick</i> (G.J. Keighery 10905)			
314.	5411 <i>Calothamnus hirsutus</i>			
315.	5415 <i>Calothamnus lateralis</i>			
316.	5439 <i>Calytrix angulata</i> (Yellow Starflower)			
317.	5458 <i>Calytrix flavescens</i> (Summer Starflower)			
318.	5460 <i>Calytrix fraseri</i> (Pink Summer Calytrix)			
319.	2795 <i>Carpobrotus edulis</i> (Hottentot Fig)			

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		Y		
320.	1162 <i>Cartonema philydroides</i>			
321.	2957 <i>Cassytha racemosa</i> (Dodder Laurel)			
322.	1121 <i>Centrolepis aristata</i> (Pointed Centrolepis)			
323.	1125 <i>Centrolepis drummondiana</i>			
324.	1134 <i>Centrolepis polygyna</i> (Wiry Centrolepis)			
325.	17685 <i>Chaetanthus aristatus</i>			
326.	1280 <i>Chamaescilla corymbosa</i> (Blue Squill)			
327.	2490 <i>Chenopodium glaucum</i> (Glaucous Goosefoot)	Y		
328.	763 <i>Chorizandra enodis</i> (Black Bristlerush)			
329.	6543 <i>Cicendia filiformis</i> (Slender Cicendia)	Y		
330.	7937 <i>Cirsium vulgare</i> (Spear Thistle, Scotch Thistle)	Y		
331.	4554 <i>Comesperma flavum</i>			
332.	6348 <i>Conostephium pendulum</i> (Pearl Flower)			
333.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
334.	11695 <i>Conostylis festucaecea</i> subsp. <i>festucaecea</i>			
335.	1436 <i>Conostylis juncea</i>			
336.	1455 <i>Conostylis setosa</i> (White Cottonhead)			
337.	7939 <i>Conyza bonariensis</i> (Flaxleaf Fleabane)	Y		
338.	7941 <i>Conyza parva</i>	Y		
339.	20074 <i>Conyza sumatrensis</i>	Y		
340.	1285 <i>Corynotheca micrantha</i> (Sand Lily)			
341.	7945 <i>Cotula coronopifolia</i> (Waterbuttons)	Y		
342.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			
343.	768 <i>Cyathochaeta avenacea</i>			
344.	783 <i>Cyperus congestus</i> (Dense Flat-sedge)	Y		
345.	815 <i>Cyperus tenellus</i> (Tiny Flatsedge)	Y		
346.	10916 <i>Cyrtostylis huegelii</i>			
347.	17692 <i>Cytogonidium leptocarpoides</i>			
348.	7454 <i>Dampiera linearis</i> (Common Dampiera)			
349.	7462 <i>Dampiera pedunculata</i>			
350.	7484 <i>Dampiera trigona</i> (Angled-stem Dampiera)			
351.	5508 <i>Darwinia citriodora</i> (Lemon-scented Darwinia)			
352.	1218 <i>Dasypogon bromeliifolius</i> (Pineapple Bush)			
353.	3832 <i>Daviesia physodes</i>			
354.	15831 <i>Desmocladius castaneus</i>			
355.	16595 <i>Desmocladius flexuosus</i>			
356.	1259 <i>Dianella revoluta</i> (Blueberry Lily)			
357.	306 <i>Dichelachne crinita</i> (Longhair Plumegrass)			
358.	1287 <i>Dichopogon capillipes</i>			
359.	17838 <i>Dielsia stenostachya</i>			
360.	1634 <i>Diuris laxiflora</i> (Bee Orchid)			
361.	1637 <i>Diuris purdiei</i> (Purdie's Donkey Orchid)		T	
362.	1639 <i>Drakaea elastica</i> (Glossy-leaved Hammer Orchid)		T	
363.	13635 <i>Drakaea micrantha</i>		T	
364.	3095 <i>Drosera erythrorhiza</i> (Red Ink Sundew)			
365.	13217 <i>Drosera erythrorhiza</i> subsp. <i>erythrorhiza</i>			
366.	3097 <i>Drosera gigantea</i> (Giant Sundew)			
367.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
368.	3101 <i>Drosera heterophylla</i> (Swamp Rainbow)			
369.	3109 <i>Drosera menziesii</i> (Pink Rainbow)			
370.	11853 <i>Drosera menziesii</i> subsp. <i>menziesii</i>			
371.	3113 <i>Drosera neesii</i> (Jewel Rainbow)			
372.	13191 <i>Drosera occidentalis</i> subsp. <i>occidentalis</i>		P4	
373.	13188 <i>Drosera paleacea</i> subsp. <i>paleacea</i>			
374.	3124 <i>Drosera pulchella</i> (Pretty Sundew)			
375.	8911 <i>Drosera rosulata</i>			
376.	<i>Drosera</i> sp. "climbing"			
377.	2501 <i>Dysphania glomulifera</i>			
378.	11368 <i>Dysphania glomulifera</i> subsp. <i>glomulifera</i>			
379.	347 <i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
380.	<i>Ehrharta</i> sp.			
381.	822 <i>Eleocharis acuta</i> (Common Spikerush)			
382.	1645 <i>Epiblema grandiflorum</i> (Babe-in-a-cradle)			
383.	6131 <i>Epilobium billardioreanum</i> (Glabrous Willow Herb)			
384.	376 <i>Eragrostis curvula</i> (African Lovegrass)	Y		
385.	379 <i>Eragrostis elongata</i> (Clustered Lovegrass)			
386.	<i>Eragrostis</i> sp.			
387.	1646 <i>Eriochilus dilatatus</i> (White Bunny Orchid)			
388.	15414 <i>Eriochilus helonomos</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
389.	15415 <i>Eriochilus scaber</i> subsp. <i>scaber</i>			
390.	6219 <i>Eryngium pinnatifidum</i> (Blue Devils)			
391.	<i>Eucalyptus grandis</i>			
392.	5790 <i>Eucalyptus todtiana</i> (Coastal Blackbutt)			
393.	3872 <i>Euchilopsis linearis</i> (Swamp Pea)			
394.	4648 <i>Euphorbia terracina</i> (Geraldton Carnation Weed)	Y		
395.	3880 <i>Eutaxia virgata</i>			
396.	835 <i>Evandra pauciflora</i>			
397.	1515 <i>Ferraria crispa</i> (Black Flag)	Y		
398.	894 <i>Fimbristylis velata</i>			
399.	907 <i>Gahnia trifida</i> (Coast Saw-sedge)			
400.	1520 <i>Gladiolus caryophyllaceus</i> (Wild Gladiolus)	Y		
401.	1524 <i>Gladiolus undulatus</i> (Wild Gladiolus)	Y		
402.	17043 <i>Glyceria declinata</i>	Y		
403.	12624 <i>Gnephosis angianthoides</i>			
404.	3948 <i>Gompholobium capitatum</i>			
405.	3954 <i>Gompholobium polymorphum</i>			
406.	3957 <i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			
407.	6160 <i>Gonocarpus paniculatus</i>			
408.	6161 <i>Gonocarpus pithyoides</i>			
409.	12551 <i>Goodenia micrantha</i>			
410.	7538 <i>Goodenia pulchella</i>			
411.	19286 <i>Goodenia pulchella</i> subsp. <i>Coastal Plain A</i> (M. Hislop 634)			
412.	19628 <i>Grevillea bipinnatifida</i> subsp. <i>bipinnatifida</i>			
413.	13429 <i>Grevillea diversifolia</i> subsp. <i>diversifolia</i>			
414.	<i>Grevillea robusta</i>			Y
415.	1475 <i>Haemodorum spicatum</i> (Mardja)			
416.	2179 <i>Hakea marginata</i>			
417.	2197 <i>Hakea prostrata</i> (Harsh Hakea)			
418.	2212 <i>Hakea sulcata</i> (Furrowed Hakea)			
419.	2216 <i>Hakea varia</i> (Variable-leaved Hakea)			
420.	<i>Hemiandra ?pungens</i>			Y
421.	6839 <i>Hemiandra pungens</i> (Snakebush)			
422.	38320 <i>Hemiandra</i> sp. <i>Jurien</i> (B.J. Conn & M.E. Tozer BJC 3885)			
423.	1293 <i>Hensmania turbinata</i>			
424.	19778 <i>Hibbertia glomerata</i> subsp. <i>darlingensis</i>			
425.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
426.	48381 <i>Hibbertia striata</i>			
427.	5173 <i>Hibbertia subvaginata</i>			
428.	444 <i>Holcus lanatus</i> (Yorkshire Fog)	Y		
429.	6222 <i>Homalosciadium homalocarpum</i>			
430.	3968 <i>Hovea trisperma</i> (Common Hovea)			
431.	12859 <i>Hovea trisperma</i> var. <i>trisperma</i>			
432.	12741 <i>Hyalosperma cotula</i>			
433.	6223 <i>Hydrocotyle alata</i>			
434.	6226 <i>Hydrocotyle callicarpa</i> (Small Pennywort)			
435.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
436.	35070 <i>Hypocalymma angustifolium</i> subsp. <i>Swan Coastal Plain</i> (G.J. Keighery 16777)			
437.	5825 <i>Hypocalymma robustum</i> (Swan River Myrtle)			
438.	8086 <i>Hypochoeris glabra</i> (Smooth Catsear)	Y		
439.	1070 <i>Hypolaena exsulca</i>			
440.	17841 <i>Hypolaena pubescens</i>			
441.	910 <i>Isolepis cernua</i> (Nodding Club-rush)			
442.	912 <i>Isolepis cyperoides</i>			
443.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
444.	919 <i>Isolepis oldfieldiana</i>			
445.	924 <i>Isolepis stellata</i> (Star Club-rush)			
446.	2227 <i>Isopogon divergens</i> (Spreading Coneflower)			
447.	3992 <i>Isotropis cuneifolia</i> (Granny Bonnets)			
448.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
449.	20462 <i>Jacksonia gracillima</i>		P3	
450.	4027 <i>Jacksonia sericea</i> (Waldjumi)		P4	
451.	1177 <i>Juncus articulatus</i> (Jointed Rush)	Y		
452.	1180 <i>Juncus capitatus</i> (Capitate Rush)	Y		
453.	4044 <i>Kennedia prostrata</i> (Scarlet Runner)			
454.	5832 <i>Kunzea ericifolia</i> (Spearwood, Pondil)			
455.	15498 <i>Kunzea glabrescens</i> (Spearwood)			
456.	5835 <i>Kunzea micrantha</i>			
457.	20019 <i>Lachnagrostis filiformis</i>			
458.	19955 <i>Lachnagrostis plebeia</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
459.	8095 <i>Lactuca saligna</i> (Wild Lettuce, Willow-leaf Lettuce)	Y		
460.	4052 <i>Latrobea tenella</i>			
461.	11911 <i>Laxmannia ramosa</i> subsp. <i>ramosa</i>			
462.	11464 <i>Laxmannia sessiliflora</i> subsp. <i>australis</i>			
463.	1309 <i>Laxmannia squarrosa</i>			
464.	7572 <i>Lechenaultia expansa</i>			
465.	7574 <i>Lechenaultia floribunda</i> (Free-flowering Leschenaultia)			
466.	925 <i>Lepidosperma angustatum</i>			
467.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
468.	940 <i>Lepidosperma pubisquameum</i>			
469.	942 <i>Lepidosperma rostratum</i>		T	
470.	945 <i>Lepidosperma squamatum</i>			
471.	1653 <i>Leporella fimbriata</i> (Hare Orchid)			
472.	1077 <i>Leptocarpus canus</i> (Hoary Twine-rush)			
473.	1078 <i>Leptocarpus coangustatus</i>			
474.	19833 <i>Leptocarpus laxus</i>			
475.	46382 <i>Leptocarpus roycei</i>			
476.	15418 <i>Leptoceras menziesii</i>			
477.	5850 <i>Leptospermum laevigatum</i> (Coast Teatree)	Y		
478.	6360 <i>Leucopogon australis</i> (Spiked Beard-heath)			
479.	6374 <i>Leucopogon conostephioides</i>			
480.	6416 <i>Leucopogon nutans</i> (Drooping Leucopogon)			
481.	40803 <i>Leucopogon squarrosus</i> subsp. <i>squarrosus</i>			
482.	6447 <i>Leucopogon strictus</i>			
483.	6451 <i>Leucopogon tenuis</i>			
484.	7677 <i>Levenhookia stipitata</i> (Common Stylewort)			
485.	7408 <i>Lobelia tenuior</i> (Slender Lobelia)			
486.	478 <i>Lolium rigidum</i> (Wimmera Ryegrass)	Y		
487.	1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)			
488.	1228 <i>Lomandra hermaphrodita</i>			
489.	1232 <i>Lomandra micrantha</i> (Small-flower Mat-rush)			
490.	1246 <i>Lomandra suaveolens</i>			
491.	4059 <i>Lotus angustissimus</i> (Narrowleaf Trefoil)	Y		
492.	1097 <i>Lyginia barbata</i>			
493.	<i>Lyginia barbata/imberbis</i>			
494.	18049 <i>Lyginia imberbis</i>			
495.	2838 <i>Macarthuria apetalata</i>			
496.	2839 <i>Macarthuria australis</i>			
497.	18119 <i>Macrozamia fraseri</i>			
498.	85 <i>Macrozamia riedlei</i> (Zamia, Djirdji)			
499.	<i>Marchantia berteriana</i>			
500.	33638 <i>Meionectes tenuifolia</i>		P3	
501.	37580 <i>Melaleuca acutifolia</i>			
502.	13273 <i>Melaleuca incana</i> subsp. <i>incana</i>			
503.	5926 <i>Melaleuca lateritia</i> (Robin Redbreast Bush)			
504.	20297 <i>Melaleuca osullivanii</i>			
505.	5952 <i>Melaleuca preissiana</i> (Moonah)			
506.	5959 <i>Melaleuca raphiophylla</i> (Swamp Paperbark)			
507.	5978 <i>Melaleuca teretifolia</i> (Banbar)			
508.	5980 <i>Melaleuca thymoides</i>			
509.	5984 <i>Melaleuca uncinata</i> (Broom Bush, Kwidjard)			
510.	5987 <i>Melaleuca viminea</i> (Mohan)			
511.	953 <i>Mesomelaena graciliceps</i>			
512.	485 <i>Microlaena stipoides</i> (Weeping Grass)			
513.	1658 <i>Microtis atrata</i> (Swamp Mignonette Orchid)			
514.	8106 <i>Millotia tenuifolia</i> (Soft Millotia)			
515.	7410 <i>Monopsis debilis</i>	Y		
516.	37440 <i>Monopsis debilis</i> var. <i>depressa</i>	Y		
517.	19179 <i>Moraea flaccida</i> (One-leaf Cape Tulip)	Y		
518.	8117 <i>Myriocephalus helichrysoides</i>			
519.	492 <i>Neurachne alopecuroidea</i> (Foxtail Mulga Grass)			
520.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
521.	8143 <i>Olearia paucidentata</i> (Autumn Scrub Daisy)			
522.	36200 <i>Ornduffia submersa</i>		P4	
523.	502 <i>Panicum capillare</i> (Witchgrass)	Y		
524.	3618 <i>Paraserianthes lophantha</i> (Albizia)			
525.	7090 <i>Parentucellia viscosa</i> (Sticky Bartsia)	Y		
526.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
527.	30472 <i>Patersonia occidentalis</i> var. <i>occidentalis</i>			
528.	4343 <i>Pelargonium capitatum</i> (Rose Pelargonium)	Y		

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
529.	6006 <i>Pericalymma ellipticum</i> (Swamp Teatree)			
530.	16477 <i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			
531.	11020 <i>Persicaria hydropiper</i>			
532.	11052 <i>Persicaria prostrata</i>			
533.	20391 <i>Petrophile juncifolia</i>			
534.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
535.	2308 <i>Petrophile seminuda</i>			
536.	18529 <i>Philothea spicata</i> (Pepper and Salt)			
537.	1172 <i>Philydrella drummondii</i>			
538.	14306 <i>Philydrella pygmaea</i> subsp. <i>pygmaea</i>			
539.	1478 <i>Phlebocarya ciliata</i>			
540.	1479 <i>Phlebocarya filifolia</i>			
541.	16177 <i>Phyllangium paradoxum</i>			
542.	4 <i>Phylloglossum drummondii</i> (Pigmy Clubmoss)			
543.	4141 <i>Phyllota gracilis</i>			
544.	11404 <i>Pimelea imbricata</i> var. <i>major</i>			
545.	11402 <i>Pimelea imbricata</i> var. <i>piligera</i>			
546.	5252 <i>Pimelea lanata</i>			
547.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
548.	8183 <i>Podotheca chrysantha</i> (Yellow Podotheca)			
549.	8184 <i>Podotheca gnaphalioides</i> (Golden Long-heads)			
550.	<i>Podotheca</i> sp.			
551.	4578 <i>Polygala virgata</i>	Y		
552.	582 <i>Polypogon monspeliensis</i> (Annual Beardgrass)	Y		
553.	583 <i>Polypogon tenellus</i>			
554.	1670 <i>Prasophyllum drummondii</i> (Swamp Leek Orchid)			
555.	1673 <i>Prasophyllum gibbosum</i> (Humped Leek Orchid)			
556.	44723 <i>Pterostylis glebosa</i>			
557.	1693 <i>Pterostylis recurva</i> (Jug Orchid)			
558.	12217 <i>Pterostylis sanguinea</i>			
559.	18655 <i>Pterostylis</i> sp. <i>crinkled leaf</i> (G.J. Keighery 13426)			
560.	1698 <i>Pterostylis vittata</i> (Banded Greenhood)			
561.	4177 <i>Pultenaea ochreatea</i>			
562.	4181 <i>Pultenaea reticulata</i>			
563.	16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)			
564.	8195 <i>Quinetia urvillei</i>			
565.	6012 <i>Regelia ciliata</i>			
566.	1556 <i>Romulea rosea</i> (Guildford Grass)	Y		
567.	7619 <i>Scaevola lanceolata</i> (Long-leaved Scaevola)			
568.	7636 <i>Scaevola platyphylla</i> (Broad-leaved Fanflower)			
569.	6263 <i>Schoenolaena juncea</i>			
570.	973 <i>Schoenus asperocarpus</i> (Poison Sedge)			
571.	984 <i>Schoenus curvifolius</i>			
572.	986 <i>Schoenus efoliatus</i>			
573.	992 <i>Schoenus grandiflorus</i> (Large Flowered Bogrush)			
574.	1006 <i>Schoenus odontocarpus</i>			
575.	1008 <i>Schoenus pennisetis</i>		P3	
576.	17614 <i>Schoenus plumosus</i>			
577.	1011 <i>Schoenus rigens</i>			
578.	1018 <i>Schoenus subfascicularis</i>			
579.	1023 <i>Schoenus tenellus</i>			
580.	6033 <i>Scholtzia involucrata</i> (Spiked Scholtzia)			
581.	6 <i>Selaginella gracillima</i> (Tiny Clubmoss)			
582.	25878 <i>Senecio condylus</i>			
583.	8203 <i>Senecio diaschides</i>			
584.	8225 <i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
585.	1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)			
586.	1560 <i>Sparaxis pillansii</i> (Harlequin Flower)	Y		
587.	2912 <i>Spergula arvensis</i> (Corn Spurry)	Y		
588.	4205 <i>Sphaerolobium linophyllum</i>			
589.	19403 <i>Stenopetalum gracile</i>			
590.	2316 <i>Stirlingia latifolia</i> (Blueboy)			
591.	18564 <i>Stylidium aceratum</i>		P3	
592.	7684 <i>Stylidium amoenum</i> (Lovely Triggerplant)			
593.	30278 <i>Stylidium androsaceum</i>			
594.	7693 <i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
595.	7696 <i>Stylidium calcaratum</i> (Book Triggerplant)			
596.	7713 <i>Stylidium dichotomum</i> (Pins-and-needles)			
597.	7717 <i>Stylidium divaricatum</i> (Daddy-long-legs)			
598.	7719 <i>Stylidium ecorne</i> (Foot Triggerplant)			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
599.	7721 <i>Stylidium emarginatum</i> (Biddy-four-legs)			
600.	7734 <i>Stylidium guttatum</i> (Dotted Triggerplant)			
601.	7742 <i>Stylidium inundatum</i> (Hundreds and Thousands)			
602.	7756 <i>Stylidium longitubum</i> (Jumping Jacks)		P4	
603.	25800 <i>Stylidium paludicola</i>		P3	
604.	7774 <i>Stylidium piliferum</i> (Common Butterfly Triggerplant)			
605.	7785 <i>Stylidium repens</i> (Matted Triggerplant)			
606.	7790 <i>Stylidium roseoalatum</i> (Pink-wing Triggerplant)			
607.	45594 <i>Stylidium tenue</i> subsp. <i>majusculum</i> (Showy Fountain Triggerplant)			
608.	7806 <i>Stylidium utricularioides</i> (Pink Fan Triggerplant)			
609.	1260 <i>Stypandra glauca</i> (Blind Grass)			
610.	6476 <i>Styphelia tenuiflora</i> (Common Pinheath)			
611.	37360 <i>Tamarix ramosissima</i>	Y		
612.	20135 <i>Taxandria linearifolia</i>			
613.	48341 <i>Tetratheca hirsuta</i> subsp. <i>viminea</i>			
614.	20728 <i>Thelymitra xanthotricha</i>			
615.	1318 <i>Thysanotus arbuscula</i>			
616.	1334 <i>Thysanotus glaucus</i>		P4	
617.	1338 <i>Thysanotus manglesianus</i> (Fringed Lily)			
618.	<i>Thysanotus manglesianus/patersonii</i> complex			
619.	1339 <i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
620.	1351 <i>Thysanotus sparteus</i>			
621.	1354 <i>Thysanotus tenellus</i>			
622.	1357 <i>Thysanotus thyrsoides</i>			
623.	1358 <i>Thysanotus triandrus</i>			
624.	6280 <i>Trachymene pilosa</i> (Native Parsnip)			
625.	17684 <i>Tremulina tremula</i>			
626.	1481 <i>Tribonanthes australis</i>			
627.	1485 <i>Tribonanthes violacea</i>			
628.	1361 <i>Tricoryne elatior</i> (Yellow Autumn Lily)			
629.	1363 <i>Tricoryne tenella</i>			
630.	44444 <i>Tripterococcus</i> sp. <i>Brachylobus</i> (A.S. George 14234)		P4	
631.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
632.	7145 <i>Utricularia menziesii</i> (Redcoats)			
633.	6076 <i>Verticordia densiflora</i> (Compacted Featherflower)			
634.	12411 <i>Verticordia densiflora</i> var. <i>cespitosa</i>			
635.	6077 <i>Verticordia drummondii</i> (Drummond's Featherflower)			
636.	14714 <i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		P4	
637.	6110 <i>Verticordia plumosa</i> (Plumed Featherflower)			
638.	12449 <i>Verticordia plumosa</i> var. <i>brachyphylla</i>			
639.	722 <i>Vulpia bromoides</i> (Squirrel Tail Fescue)	Y		
640.	724 <i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		
641.	7389 <i>Wahlenbergia preissii</i>			
642.	18108 <i>Watsonia meriana</i> var. <i>bulbillifera</i>	Y		
643.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
644.	6289 <i>Xanthosia huegelii</i>			
645.	1049 <i>Zantedeschia aethiopica</i> (Arum Lily)	Y		

Conservation Codes

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

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



Appendix B

DEC NatureMap Species Report

1 Km Search Radius

NatureMap Species Report

Created By Guest user on 26/10/2017

Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 115° 56' 41" E, 32° 10' 23" S
Buffer 1km
Group By Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	79	138
Priority 4	1	1
Protected under international agreement	1	2
TOTAL	81	141

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Protected under international agreement				
1.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)		IA	
Priority 4				
2.	24153 <i>Isodon obesulus</i> subsp. <i>fusciventer</i> (Quenda, Southern Brown Bandicoot)		P4	
Non-conservation taxon				
3.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
4.	24261 <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
5.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
6.	1791 <i>Adenanthos obovatus</i> (Basket Flower)			
7.	184 <i>Aira caryophyllea</i> (Silvery Hairgrass)	Y		
8.	187 <i>Aira praecox</i> (Early Hairgrass)	Y		
9.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
10.	24561 <i>Anthochaera carunculata</i> (Red Wattlebird)			
11.	24562 <i>Anthochaera lunulata</i> (Western Little Wattlebird)			
12.	1117 <i>Aphelia cyperoides</i>			
13.	4441 <i>Boronia spathulata</i> (Boronia)			
14.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
15.	245 <i>Briza minor</i> (Shivery Grass)	Y		
16.	1383 <i>Burchardia bairdiae</i>			
17.	5415 <i>Calothamnus lateralis</i>			
18.	1162 <i>Cartonema philydroides</i>			
19.	2957 <i>Cassytha racemosa</i> (Dodder Laurel)			
20.	1121 <i>Centrolepis aristata</i> (Pointed Centrolepis)			
21.	1125 <i>Centrolepis drummondiana</i>			
22.	24288 <i>Circus approximans</i> (Swamp Harrier)			
23.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
24.	25592 <i>Corvus coronoides</i> (Australian Raven)			
25.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
26.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
27.	25027 <i>Ctenotus australis</i>			
28.	7454 <i>Dampiera linearis</i> (Common Dampiera)			
29.	1218 <i>Dasyogon bromeliifolius</i> (Pineapple Bush)			
30.	3113 <i>Drosera neesii</i> (Jewel Rainbow)			
31.	3124 <i>Drosera pulchella</i> (Pretty Sundew)			
32.	<i>Egretta novaehollandiae</i>			
33.	<i>Eolophus roseicapillus</i>			
34.	6131 <i>Epilobium billardioreanum</i> (Glabrous Willow Herb)			
35.	379 <i>Eragrostis elongata</i> (Clustered Lovegrass)			
36.	3872 <i>Euchilopsis linearis</i> (Swamp Pea)			
37.	3880 <i>Eutaxia virgata</i>			
38.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
39.	25530 <i>Gerygone fusca</i> (Western Gerygone)			
40.	12551 <i>Goodenia micrantha</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
41.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
42.	47965 <i>Hieraaetus morphnoides</i> (Little Eagle)			
43.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
44.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
45.	8086 <i>Hypochoeris glabra</i> (Smooth Catsear)	Y		
46.	1070 <i>Hypolaena exsulca</i>			
47.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
48.	3992 <i>Isotropis cuneifolia</i> (Granny Bonnets)			
49.	1177 <i>Juncus articulatus</i> (Jointed Rush)	Y		
50.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
51.	1078 <i>Leptocarpus coangustatus</i>			
52.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
53.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
54.	5952 <i>Melaleuca preissiana</i> (Moonah)			
55.	5978 <i>Melaleuca teretifolia</i> (Banbar)			
56.	5987 <i>Melaleuca viminea</i> (Mohan)			
57.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
58.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
59.	7090 <i>Parentucellia viscosa</i> (Sticky Bartsia)	Y		
60.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
61.	6006 <i>Pericalymma ellipticum</i> (Swamp Teatree)			
62.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
63.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
64.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
65.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
66.	<i>Purpureicephalus spurius</i>			
67.	6012 <i>Regelia ciliata</i>			
68.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
69.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
70.	1006 <i>Schoenus odontocarpus</i>			
71.	6033 <i>Scholtzia involucrata</i> (Spiked Scholtzia)			
72.	8225 <i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
73.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
74.	7693 <i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
75.	7785 <i>Stylidium repens</i> (Matted Triggerplant)			
76.	1357 <i>Thysanotus thyrsoides</i>			
77.	17684 <i>Tremulina tremula</i>			
78.	48147 <i>Turnix varius</i> (Painted Button-quail)			
79.	6289 <i>Xanthosia huegelii</i>			
80.	1049 <i>Zantedeschia aethiopica</i> (Arum Lily)	Y		
81.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			

Conservation Codes

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

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

NatureMap Species Report

Created By Guest user on 26/10/2017

Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 115° 56' 41" E, 32° 10' 23" S
Buffer 1km
Group By Kingdom

Kingdom	Species	Records
Animalia	35	92
Plantae	46	49
TOTAL	81	141

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
Animalia				
1.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
2.	24261 <i>Acanthiza chrysorrhoa</i> (Yellow-rumped Thornbill)			
3.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
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12.	25027 <i>Ctenotus australis</i>			
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15.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
16.	25530 <i>Gerygone fusca</i> (Western Gerygone)			
17.	24443 <i>Gallina cyanoleuca</i> (Magpie-lark)			
18.	47965 <i>Hieraaetus morphnoides</i> (Little Eagle)			
19.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
20.	24153 <i>Isoodon obesulus subsp. fusciventer</i> (Quenda, Southern Brown Bandicoot)		P4	
21.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
22.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
23.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)		IA	
24.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
25.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
26.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
27.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
28.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
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30.	<i>Purpureicephalus spurius</i>			
31.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
32.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
33.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
34.	48147 <i>Turnix varius</i> (Painted Button-quail)			
35.	25765 <i>Zosterops lateralis</i> (Grey-breasted White-eye, Silvereye)			
Plantae				
36.	1791 <i>Adenanthos obovatus</i> (Basket Flower)			
37.	184 <i>Aira caryophyllea</i> (Silvery Hairgrass)	Y		
38.	187 <i>Aira praecox</i> (Early Hairgrass)	Y		
39.	1117 <i>Aphelia cyperoides</i>			
40.	4441 <i>Boronia spathulata</i> (Boronia)			
41.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
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59.	8086 <i>Hypochoeris glabra</i> (Smooth Catsear)	Y		
60.	1070 <i>Hypolaena exsulca</i>			
61.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
62.	3992 <i>Isotropis cuneifolia</i> (Granny Bonnets)			
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71.	6006 <i>Pericalymma ellipticum</i> (Swamp Teatree)			
72.	6012 <i>Regelia ciliata</i>			
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