

Department of Planning, Lands and Heritage

Bullsbrook Freight and Industrial Land Use Planning Strategy Environmental Study

December 2020

Executive summary

GHD has been commissioned by Department of Planning, Lands and Heritage to prepare a desktop Environmental Study to support the Bullsbrook Freight and Industrial Land Use Planning Strategy for an area of land located within Bullsbrook, Western Australia (hereon referred to as the 'study area').

The key findings of the study are summarised below:

- The study area is located within the south-west of Western Australia and experiences a
 Mediterranean climate. Average temperature data (sourced from Pearce RAAF Station
 number: 009053) ranges from 8.2 °C in August to 33.5 °C in January. Mean annual rainfall
 is 654 mm (BoM 2018).
- The study area lies immediately east of the Darling Scarp foothills, has a predominantly flat topographic profile and is considered to have poor drainage, with one permanent surface water body (Twin Swamps Nature Reserve) located within 1 km of the study area boundary.
- The surface geology of the study area comprises mainly Pebbly Silt, Sand, Limestone, and Peaty Clay (Geological Survey of Western Australia 1984).
- Acid Sulfate Soil (ASS) risk mapping obtained through the Australian Soil Resource Information System (ASRIS 2018) indicates that the study area contains soils with ASS risk high to moderate risk and Moderate to low risk of ASS occurrence.
- No known or suspected contaminated sites lie within 5 km of the study area (DWER 2018).
- One DBCA managed land lies within the boundaries of the study area the Gnangara-Moore River State Forest (F 6, Class A) which intersects the western boundary. This portion of Gnangara-Moore River State Forest is also listed as Bush Forever Sites No. 6 and 399.
 Nine other DBCA-managed conservation areas are located within 5 km of the study area.
- Seven Bush Forever sites intersect the study area (Bush Forever sites 6, 100, 97, 294, 296, 298 and 399) (Government of Western Australia, 2000). An additional 9 Bush Forever sites are located within 5 km of the study area.
- No Regional Parks intersect the study area or occur within a 5 km buffer of the study area.
- The Environmental Protection (Western Swamp Tortoise Habitat) Policy 2011 is in place to protect habitat suitable for the long-term survival of wild populations of the Western Swamp Tortoise. The Policy defines an area which includes Ellen Brook and Twin Swamps Nature Reserves. A search of the study area found that its southern border is located approximately 0.8 km north of the Twin Swamps Nature Reserve (R 27621), and 4.7 km north of Ellen Brook Nature Reserve (R 27620) for the preservation of fauna, namely the Western Swamp Tortoise. The study area also intersects the northern extent of the policy area as defined in the Environmental Protection (Western Swamp Tortoise Habitat) Policy 2011.
- A number of Environmentally Sensitive Areas (ESAs) occur or intersect the study area.
 These ESAs are likely aligned with Threatened Ecological Communities (TECs), DBCA-managed lands, Bush Forever and geomorphic wetlands.
- The study area is situated in the Southwest Botanical Province of WA (Beard 1990) within the Swan Coastal Plain bioregion and the Perth subregion as described by the Interim Biogeographic Region of WA (IBRA).

- Four vegetation complexes on Aeolian deposits of the Swan Coastal Plain are present within the study area: Yangara Complex, Beermullah Complex, Bassendean Complex and Guilford Complex (Heddle *et al.* 1980).
- Within the 5 km buffered study area, 905 native flora taxa representing 100 families and 351 genera have been identified. Dominant families recorded included Fabaceae, Myrtaceae, Poaceae, Proteaceae and Cyperaceae.
- Searches of the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) Protected Matters Search Tool (PMST), NatureMap database identified the present/potential presence of 39 conservation significant flora taxa within a 5 km buffer of the study area.
- Five habitat linkages intersect the study area: Link ID 27, 28, 29, 30, and 31.
- A search of the NatureMap database identified 425 species within the 5 km of the study area. The search included 13 amphibians, 108 birds, 4 fish, 235 invertebrates, 13 mammals and 52 reptiles (DBCA 2007–).
- Searches of the EPBC Act PMST, NatureMap database and DBCA Threatened and Priority Fauna database identified the present/potential presence of 13 conservation significant fauna taxa within a 5 km buffer of the study area

The Bullsbrook Freight and Industrial Land Use Planning Strategy will respond to the key findings of the Environmental Study by providing guidance on appropriate responses as part of further detailed planning to protect existing environmental assets and values within and surrounding the site.

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1. Introduction

1.1 Background

Located in the north-east fringe of the metropolitan area approximately 35 kilometres (km) from the Perth CBD, Bullsbrook consists of mainly rural and rural residential land with a small population base. However, significant growth is expected within the Bullsbrook Townsite within the next 15 to 20 years, with the population expected to triple. In addition, the State strategic planning framework has identified a significant portion of land for urban expansion within the City of Swan over the next 30 years.

As the population continues to grow across the broader Perth and Peel regions, there will be increasing demand for employment opportunities both within and across sub-regions. Highly efficient freight services will also be required to maintain the supply chains necessary for servicing this population. The State has acknowledged the need to identify existing and future freight corridors and strategic sites to avoid land use and transport conflicts and to manage the interface between communities and freight corridors and centres.

1.2 Purpose of this report

GHD Pty Ltd (GHD) was engaged by the Department of Planning, Lands and Heritage (DPLH) on behalf of the Western Australian Planning Commission (WAPC) to prepare the Bullsbrook Freight and Industrial Land Use Planning Strategy (the 'Strategy') for the proposed Bullsbrook Intermodal Terminal (IMT) and surrounding area. This Environmental Study Report has been prepared to support the Strategy.

1.3 Location

The Bullsbrook Freight and Industrial Land Use Planning Strategy study area (the 'study area') is located in the north-west corridor in the City of Swan. The study area is bounded by the RAAF Base Pearce and Great Northern Highway to the east, Shire of Chittering to the north, the Perth – Darwin National Highway (PDNH) to the west and rural land identified for urban expansion to the south, and covers approximately 3,509 hectares (ha).

1.4 Scope of work

The scope of work for the Environmental Study was to undertake a desktop study of the study area to identify the biodiversity and natural area assets to ensure significant environmental values are considered in the structure planning process.

1.5 Relevant legislation, conservation codes and background information

In Western Australia significant communities, and flora and fauna are protected under both Federal and State Government legislation. In addition, regulatory bodies also provide a range of guidance and information on expected standards and protocols for environmental surveys.

An overview of key legislation and guidelines, conservation codes and background information relevant to this assessment are provided in Appendix B.

1.6 Limitations

This report has been prepared by GHD for DPLH and may only be used and relied on by DPLH for the purpose agreed between GHD and the DPLH as set out in section 1.2 of this report.

GHD otherwise disclaims responsibility to any person other than DPLH arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report (June 2018). Minor updates to the report were completed in December 2020, limited to the project name. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

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

2. Methodology

2.1 Desktop study

A desktop assessment was undertaken to identify relevant environmental information pertaining to the study area. The assessment included viewing GIS spatial files available from Government of Western Australia (GoWA 2018) and reviewing relevant reports and publicly available, government managed databases. The information sources utilised in this assessment are presented in Table 1.

Table 1 Information sources

Aspect	Information source
Climate	Bureau of Meteorology (BoM) Climate Statistics (2018) and WeatherZone (2018)
Contaminated sites	Department of Water and Environmental Regulation (DWER) Contaminated Sites Database (DWER 2018b)
Geology, topography and soils	Geological Survey of Western Australia 1984
Acid Sulfate Soils	Australian Soil Resources Information System (ASRIS 2018)
Conservation areas	Bush Forever Areas 2000 (DOP-071) Department of Biodiversity, Conservation and Attractions (DBCA) – Legislated Lands and Waters (DBCA-011) DBCA – Lands of Interest (DBCA-012)
	Regional Parks (DBCA-026)
Environmentally Sensitive Areas	DWER Clearing Permit System (DWER 2018a)
Hydrology	Ramsar Sites (DBCA-010) Directory of Important Wetlands in Australia - Western Australia (DBCA-045)
	Geomorphic Wetlands, Swan Coastal Plain (DBCA-019)
Vegetation	Pre-European Vegetation (DPIRD-006) Vegetation Complexes – Swan Coastal Plain
Threatened and Priority	Threatened Ecological Community (TEC) and Priority Ecological Community (PEC) spatial dataset
Ecological Communities	Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) Protected Matters Search Tool (DEE 2018)
Flora diversity and conservation significant flora	DBCA NatureMap database (DBCA 2007–)
Fauna diversity and conservation significant fauna	DBCA NatureMap database (DBCA 2007–)
Aboriginal heritage	Aboriginal Heritage Inquiry System (Department of Planning, Lands and Heritage (DPLH) 2018)

Aspect	Information source
European heritage	inHerit database (Heritage Council State Heritage Office 2018)
Matters of National Environmental Significance (MNES)	EPBC Act PMST (DEE 2018)

2.2 Data limitations

The desktop study uses a variety of online resources such as the WA Museum and DBCA *NatureMap* database (DBCA 2007–), and the EPBC Act PMST (DEE 2018). The EPBC Act PMST is based on bioclimatic modelling for the potential presence of species. As such, this does not represent actual records of the species within the area. The records from the DBCA searches provide more accurate information for the general area. However, some records of collections, sightings or trappings cannot be dated and often misrepresent the current range of species.

3. Existing environment

3.1 Climate

The study area is located in the south-west of Western Australia and experiences a Mediterranean climate with mild, wet winters and hot, dry summers. The nearest Bureau of Meteorology weather station with long-term data is Pearce RAAF Base (Station number: 009053) located directly adjacent to the study area.

Climatic data from this site indicates the mean maximum temperature of the area ranges from 17.9 °C in July to 33.5 °C in January and the mean minimum temperature ranges from 8.2 °C in August to 17.6 °C in February. The mean annual rainfall is 654.6 mm with an average of 57.5 rain days per year (BoM 2018). Climate statistics for this station are summarised in Plate 1 (source: Weather Zone 2018).

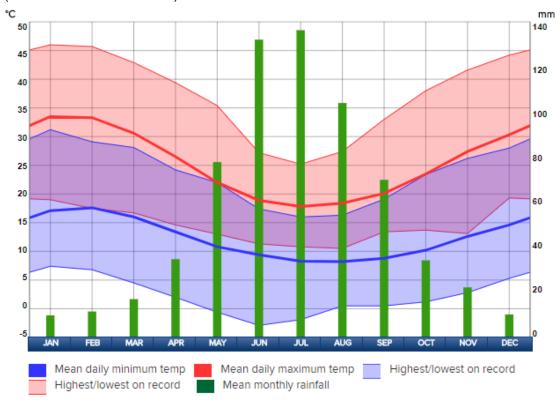


Plate 1 Pearce annual temperature and rainfall (source WeatherZone 2018)

3.2 Geology, landforms, soils

The study area is located at the base of the foothills immediately east of the Darling Scarp. The study area is generally flat and is considered to be poorly drained with one permanent surface water body (Twin Swamps Nature Reserve) located within 1 km of the study area boundary.

According to the Perth Metropolitan Region 1:50 000 Environmental Geology Series Muchea Survey (Geological Survey of Western Australia 1984) the surface geology of the study area comprises Pebbly Silt (Mgs₁: strong brown silt with common fine to occasionally course grained, sub-rounded laterite, quartz, heavily weathered granite pebbles, some fine to medium-grained quartz sand, of alluvial origin), Sand (S₁₁: light grey, medium grained, sub-angular to rounded quartz and feldspar, moderately sorted), Limestone (LS₅: white, fine-grained, in places algal laminated, some kankar development, of alluvial origin), Peaty Clay (Cps: dark grey and black with variable sand content, of lacustrine origin), Sand (S₈: very light grey at surface, yellow at

depth, fine to medium-grained, sub-rounded quartz, moderately well sorted, of eolian origin), and Sand over Pebbly Silt (S_{10} : sand as S_8 overlying Mgs₁ gravelly silt).

3.3 Acid sulfate soils

A review of Acid Sulfate Soil (ASS) risk mapping indicates that the study area contains soils with ASS risk high to moderate risk and Moderate to low risk of ASS occurrence (ASRIS 2018) (Figure 1).

3.4 Contamination

DWER holds information on known contaminated sites on the Contaminated Sites Database which have been classified by the DWER as one of the following:

- Contaminated remediation required
- Contaminated restricted use
- Remediated for restricted use.

A review of the Contaminated Sites Database on 6th June 2018 indicated the study area is not known to be contaminated.

3.5 Conservation areas

3.5.1 DBCA managed lands

The study area intersects a portion of the Gnangara-Moore River State Forest (F 65, Class A) along its western boundary. This portion of Gnangara-Moore River State Forest is also listed as Bush Forever Sites No. 6 and 399. Gnangara-Moore River State Forest extends from Pinjar to Whiteman Park covering approximately 66,000 ha.

Nine other DBCA-managed conservation areas are located within 5 km of the study area (Table 2).

Table 2 DBCA managed lands within 5 km of the study area

Name and ID	Class	Location
Twin Swamps Nature Reserve (R 27621)	Class A	0.8 km south of the study area
Walyunga National Park (R 2065)	Class A	1.3 km east of the study area
Bullsbrook Nature Reserve (R 1654)	-	1.8 km east of the study area
Un-name Nature Reserve (R 46875)	Class A	1.8 km south of the study area
Un-named Nature Reserve (R 46919)	Class A	1.8 km south of the study area
Neaves Road Nature Reserve (R 47146)	Class A	2.15 km west of the study area
Un-named Nature Reserve (R 2336)		4.4 km north of the study area
Un-named Nature Reserve (R 44622)	Class A	4.4 km north of the study area
Ellen Brook Nature Reserve (R 27620)	Class A	4.7 km south of the study area

3.5.2 Bush Forever

The study area intersects seven Bush Forever sites (Table 3). An additional nine Bush Forever sites are located within 5 km of the study area.

Table 3 Bush Forever sites intersecting the study area

Name	Site No.	Location
Neaves Road Creek	100	Intersects the northern extent of the study area
Kirby Road Bushland	97	Intersects north-west extent of study area
Pearce Aerodrome and Adjacent Bushland	294	Intersects the eastern boundary of study area
Ellen Brook	296	Intersects the south-east part of the study area
Della Road South Bushland	298	Occurs within the south-west part of study area
Melaleuca Park and Adjacent Bushland	399	Intersects the western boundary of the study area
Cooper Road Water Reserve and Adjacent Bushland	6	Intersects the southern boundary of the study area

3.5.3 Regional Parks

No Regional Parks intersect the study area or occur within a 5 km buffer of the study area.

3.5.4 Western Swamp Tortoise Habitat

The Western Swamp Tortoise (*Pseudemydura umbrina*) is listed as Critically Endangered under the EPBC Act and the *Biodiversity Conservation Act 2016* (BC Act). The tortoise is found in two remnant habitats (Ellen Brook and Twin Swamps Nature Reserves) and two translocated (reintroduced) habitats (Moore River Nature Reserve and Lake Wannamal Nature Reserve at Mogumber).

The Environmental Protection (Western Swamp Tortoise Habitat) Policy 2011 is in place to protect habitat suitable for the long-term survival of wild populations of the Western Swamp Tortoise. The Policy defines an area which includes Ellen Brook and Twin Swamps Nature Reserves as well as adjacent areas, and covers approximately 2,250 ha.

The study area is located approximately 0.8 km north of Twin Swamps Nature Reserve (R 27621) and 4.7 km north of Ellen Brook Nature Reserve (R 27620). The study area also intersects the northern extent of the policy area as defined in the Environmental Protection (Western Swamp Tortoise Habitat) Policy 2011.

3.6 Environmentally Sensitive Areas

A number of ESAs occur within or intersect the study area. These ESAs are likely aligned with TECs, DBCA-managed lands, Bush Forever and geomorphic wetlands.

3.7 Hydrology

3.7.1 Surface water

A number of drainage lines occur within the study area. The main drainage line is Ellen Brook, which flows in a south westerly direction for the entire length of the study area. Ellen Brook is a natural waterway that extends approximately 65 km, discharging into the upper Swan Estuary near West Swan Road in Belhus. The brook is ephemeral with flows generally from May to

December. Tributaries associated with Ellen Brook also intersect the study area including Nambab Brook and Ki-it Monger Brook. These brooks generally flow east to west and join Ellen Brook along its length. A number of other drainage lines occur within the study area, these are likely to be minor and ephemeral.

3.7.2 **Wetlands**

RAMSAR wetlands

There are no RAMSAR listed wetlands within or in 5 km of the study area.

Wetlands of National Significance

There are no Wetlands of National Significance within or in 5 km of the study area.

Geomorphic wetlands

There are 64 Geomorphic Wetlands that intersect the study area. These are listed in Table 4.

Summary of the Geomorphic Wetlands located within the study Table 4 area

UFI	Туре	Category	Location
8533	Floodplain	Conservation	South-western portion of study area
8536	Floodplain	Conservation	South-western portion of study area
8538	Dampland	Resource Enhancement	South-western portion of study area
8773	Palusplain	Conservation	Northern portion of study area
8779	Sumpland	Resource Enhancement	Northern portion of study area
8783	Sumpland	Resource Enhancement	Central portion of study area
8784	Floodplain	Multiple Use	Central portion of study area
8785	Floodplain	Multiple Use	Central portion of study area
8787	Dampland	Resource Enhancement	South-western portion of study area
8788	Dampland	Conservation	South-western portion of study area
8789	NA	Conservation	South-western portion of study area
8908	Sumpland	Resource Enhancement	South-western portion of study area
8909	Palusplain	Conservation	Northern portion of study area
8910	Palusplain	Conservation	Northern portion of study area
8911	Palusplain	Conservation	Northern portion of study area
8912	Palusplain	Conservation	Central portion of study area
8913	Palusplain	Conservation	Central portion of study area
8914	Palusplain	Conservation	Central portion of study area

UFI	Туре	Category	Location
8915	Palusplain	Resource Enhancement	Central portion of study area
8916	Palusplain	Resource Enhancement	Central portion of study area
8917	Palusplain	Multiple Use	Central portion of study area
8918	Palusplain	Multiple Use	Central portion of study area
8919	Sumpland	Multiple Use	Central portion of study area
8920	Palusplain	Conservation	Central portion of study area
8921	Palusplain	Conservation	Central portion of study area
8922	Palusplain	Conservation	Central portion of study area
8923	Palusplain	Resource Enhancement	Central portion of study area
8924	Sumpland	Resource Enhancement	Central portion of study area
8925	Palusplain	Resource Enhancement	Central portion of study area
8926	Sumpland	Conservation	South-western portion of study area
8927	Palusplain	Multiple Use	Southern portion of study area
9172	Palusplain	Resource Enhancement	Central portion of study area
9175	Palusplain	Multiple Use	Central portion of study area
9176	Palusplain	Conservation	Central portion of study area
9177	Palusplain	Multiple Use	Southern study area
12254	Palusplain	Conservation	Northern portion of study area
12415	Palusplain	Conservation	South-eastern portion of study area
12417	Palusplain	Conservation	South-eastern portion of study area
12418	Dampland	Multiple Use	South-eastern portion of study area
12419	Palusplain	Conservation	South-eastern portion of study area
12424	Palusplain	Conservation	South-eastern portion of study area
12433	Palusplain	Conservation	South-eastern portion of study area
12433	Palusplain	Conservation	South-eastern portion of study area
12434	Palusplain	Conservation	South-eastern portion of study area
12495	Palusplain	Conservation	Eastern portion of study area
12531	Palusplain	Multiple Use	Eastern portion of Site
12534	Palusplain	Conservation	Eastern portion of study area

UFI	Туре	Category	Location
12535	Palusplain	Conservation	Northern portion of study area
12536	Palusplain	Conservation	Central portion of study area
12537	Palusplain	Conservation	Central portion of study area
12538	Palusplain	Conservation	Central portion of study area
12539	Palusplain	Conservation	Central portion of study area
12681	Palusplain	Conservation	South-eastern portion of study area
12686	Palusplain	Multiple Use	South-eastern portion of study area
12687	Palusplain	Conservation	South-eastern portion of study area
13391	Sumpland	Conservation	South-western portion of study area
14417	Dryland	NA	South-western portion of study area
15042	Sumpland	Conservation	South-western portion of study area
15044	Floodplain	Resource Enhancement	South-western portion of study area
15046	Floodplain	Conservation	South-western portion of study area
15057	Floodplain	Multiple Use	South-western portion of study area
15282	Palusplain	Multiple Use	South Eastern portion of study area
15732	Palusplain	Multiple Use	Majority of study area
15734	Palusplain	Conservation	Southern study area

3.8 Vegetation and flora

3.8.1 Regional biogeography

The study area is situated in the Southwest Botanical Province of WA (Beard 1990) within the Swan Coastal Plain bioregion and the Perth subregion as described by the Interim Biogeographic Region of WA (IBRA).

The Swan Coastal Plain bioregion is a low lying coastal plain, mainly covered with woodlands. It is dominated by Banksia or Tuart on sandy soils, *Casuarina obesa* on outwash plains, and paperbark in swampy areas. In the east, the plain rises to duricrusted Mesozoic sediments dominated by Jarrah woodland. The Perth subregion is composed of colluvial and Aeolian sands, alluvial river flats and coastal limestone. It is dominated by Heath and/or Tuart woodlands on limestone, Banksia and Jarrah-Banksia woodlands on Quaternary marine dunes of various ages and Marri on colluvial and alluvials. The subregion also includes a complex series of seasonal wetlands (Mitchell *et al.* 2002).

3.8.2 Broad vegetation mapping

Regional vegetation has been mapped by Heddle *et al.* (1980) based on major geomorphic units on the Swan Coastal Plain. The Heddle *et al.* (1980) mapping indicates that four

vegetation complexes on aeolian and fluviatile deposits of the Swan Coastal Plain are present within the study area:

- Yanga Complex: Predominantly a closed scrub of Melaleuca species and low open forest of Casuarina obesa (Swamp Sheoak) on the flats subject to inundation. On drier sites the vegetation reflects the adjacent vegetation complexes of Bassendean and Coonambidgee.
- Beermullah Complex: Mixture of low open forest of Casuarina obesa (Swamp Sheoak) and open woodland of Corymbia calophylla (Marri) Eucalyptus wandoo (Wandoo) E. marginata (Jarrah). Minor components include closed scrub of Melaleuca species and occurrence of Actinostrobus pyramidalis (Swamp Cypress).
- Bassendean Complex-North: Vegetation ranges from a low open forest and low open woodland of *Banksia* species and *Eucalyptus todtiana* (Pricklybark) to low woodland of *Melaleuca* species and sedgelands which occupy the moister sites.
- Guildford Complex: A mixture of open forest to tall open forest of Corymbia calophylla
 (Marri) Eucalyptus wandoo (Wandoo) E. marginata (Jarrah) and woodland of E. wandoo
 (with rare occurrences of Eucalyptus lane-poolei (Salmon White Gum)). Minor components
 include E. rudis (Flooded Gum) Melaleuca rhaphiophylla (Swamp Paperbark).

The native vegetation within the study area has been extensively cleared with less than 10% of the pre-European extent remaining. Remnant vegetation is limited to isolated patches, largely within Bush Forever sites and along watercourses.

3.8.3 Conservation significant ecological communities

A search of the EPBC Act PMST identified five EPBC Act-listed TECs potentially occurring within the study area (with 5 km buffer). These TECs were also identified in a search of the DBCA TEC/PEC database, where one is listed as a Critically Endangered TEC and another is listed as a Priority 3 PEC by DBCA. Details of these communities are provided in Table 5.

 Table 5
 Threatened and Priority Ecological Communities identified in the desktop searches

Community type	EPBC Act	BC Act / DBCA	Description	Location
Assemblages of plants and invertebrate animals of tumulus (organic mound) springs of the Swan Coastal Plain	Endangered	Critically Endangered	This ecological community is characterised by continuous discharge of groundwater in raised areas of peat. The peat and surrounds provide a stable, permanently moist series of micro habitats. This community has a high heterogeneity of invertebrate fauna assemblages and commonly contain Ostracoda, Nematoda, Cladocera, Copepods, Oligochaeta, Tardigrada, Turbellaria and Insecta. Dominant vascular plants typically associated with the community include <i>Banksia littoralis</i> , <i>Melaleuca preissiana</i> and <i>Eucalyptus rudis</i> and the shrubs <i>Agonis linearifolia</i> , <i>Pteridium esculentum</i> , <i>Astartea fascicularis</i> and <i>Cyclosorus interruptus</i>	Community known to occur within the 5 km buffered study area
Banksia Woodlands of the Swan Coastal plain (TEC)	Endangered	Priority 3	The ecological community is a woodland associated with the SCP of southwest WA. A key diagnostic feature is a prominent tree layer of <i>Banksia</i> , with scattered <i>Eucalyptus</i> and other tree species often present among or emerging above the <i>Banksia</i> canopy. The understorey is a species rich mix of sclerophyllous shrubs, graminoids and forbs. The ecological community is characterised by a high endemism and considerable localised variation in species composition across its range.	Community considered likely to occur within the 5 km buffered study area
Clay Pans of the Swan Coastal Plain	Critically Endangered	Comprises four TECs listed as Vulnerable and Endangered	The ecological community occurs in WA where clay soils form an impermeable layer close to the landscape surface, and wetlands form that rely solely on rainfall to fill and then dry to impervious pans in summer. The ecological community generally occurs as shrubland over a ground layer of geophytes, herbs and sedges. There are no dominant species which characterise the entire ecological community although the community shows similar landform and vegetation structural features across its range.	Community known to occur within the 5 km buffered study area
Corymbia calophylla – Xanthorrhoea preissii woodlands and shrublands of the Swan Coastal Plain	Endangered	Critically Endangered	The ecological community is located on heavy soils of the eastern side of the SCP between Bullsbrook, and Capel. Dominant species in the community are the trees <i>Corymbia calophylla</i> (Marri), and occasionally <i>Eucalyptus wandoo</i> (Wandoo); the shrubs <i>Xanthorrhoea preissii, Acacia pulchella, Banksia dallanneyi, Gompholobium marginatum</i> , and <i>Hypocalymma</i>	Community known to occur within the 5 km buffered study area

Community type	EPBC Act	BC Act / DBCA	Description	Location
			angustifolium and the herbs Burchardia congesta, Cyathochaeta avenacea and Neurachne alopecuroidea. The introduced species Briza maxima and Hypochaeris glabra are also common, but weed levels in most occurrences are generally quite low.	
Shrublands and Woodlands on Muchea Limestone of the Swan Coastal Plain	Endangered	Endangered	This ecological community occurs on the heavy soils of the eastern side of the Swan Coastal Plain. Dominant native species in the community include trees Casuarina obesa, Eucalyptus decipiens and Eucalyptus foecunda and the shrubs Melaleuca huegelii, Alyogyne huegelii var. huegelii, Grevillea curviloba ssp. incurva, Grevillea curviloba ssp. curviloba, Grevillea evanescens, Melaleuca acerosa, Melaleuca huegelii, and the herb Thysanotus arenarius.	Community known to occur within 5 km buffered study area

3.8.4 Flora diversity

A search of the *NatureMap* database identified 905 flora taxa representing 100 families and 351 genera within 5 km of the study area (Appendix C). This total comprised 767 native taxa and 138 naturalised (introduced) taxa. Dominant families recorded included Fabaceae, Myrtaceae, Poaceae, Proteaceae and Cyperaceae.

3.8.5 Conservation significant flora

Searches of the EPBC Act PMST and *NatureMap* database identified the present/potential presence of 39 conservation significant flora taxa within a 5 km buffer of the study area (Table 6). The DBCA Threatened and Priority Flora and WA Herbarium databases also a indicate number of significant flora records within and adjacent to the study area (Figure 4).

Table 6 Conservation significant flora recorded within 5 km of the study area

Family	Taxon	Status		Source
		EPBC Act	BC Act/ DBCA	
Apiaceae	Eryngium pinnatifidum subsp. Palustre (G.J. Keighery 13459)		P3	DBCA, WAHerb
Apiaceae	Platysace ramosissima		P3	DBCA, TPFL, WAHerb
Araliaceae	Hydrocotyle lemnoides		P4	DBCA, TPFL, WAHerb
Araliaceae	Hydrocotyle striata		P1	DBCA
Asteraceae	Millotia tenuifolia var. laevis		P2	DBCA, WAHerb
Boraginaceae	Halgania corymbosa		P3	WAHerb
Centrolepidaceae	Centrolepis caespitosa		P4	DBCA, TPFL
Cyperaceae	Cyathochaeta teretifolia		P3	DBCA, TPFL, WAHerb
Cyperaceae	Eleocharis keigheryi	VU	Т	DBCA, EPBC, TPFL, WAHerb
Cyperaceae	Schoenus capillifolius		P3	DBCA, TPFL, WAHerb
Cyperaceae	Schoenus griffinianus		P4	WAHerb
Cyperaceae	Schoenus natans		P4	DBCA
Cyperaceae	Schoenus sp. Bullsbrook (J.J. Alford 915)		P2	DBCA, WAHerb
Dasypogonaceae	Calectasia cyanea	CR	T	DBCA, EPBC
Dasypogonaceae	Calectasia elegans		P2	WAHerb
Droseraceae	Drosera occidentalis subsp. occidentalis		P4	DBCA, TPFL, WAHerb
Elaeocarpaceae	Tetratheca pilifera		P3	TPFL, WAHerb
Ericaceae	Styphelia filifolia		P3	DBCA, WAHerb
Fabaceae	Acacia anomala	VU	Т	DBCA, EPBC, TPFL, WAHerb

Family	Taxon	Status		Source
		EPBC Act	BC Act/ DBCA	
Fabaceae	Acacia drummondii subsp. affinis		P3	DBCA, WAHerb
Fabaceae	Acacia oncinophylla subsp. oncinophylla		P3	WAHerb
Fabaceae	Isotropis cuneifolia subsp. glabra		P2	DBCA
Haemodoraceae	Anigozanthos humilis subsp. chrysanthus		P4	WAHerb
Haemodoraceae	Haemodorum loratum		P3	DBCA, TPFL, WAHerb
Haemodoraceae	Phlebocarya pilosissima subsp. pilosissima		P3	DBCA, WAHerb
Haloragaceae	Meionectes tenuifolia		P3	DBCA, TPFL
Hydatellaceae	Trithuria occidentalis	EN	Т	DBCA, EPBC, TPFL, WAHerb
Malvaceae	Guichenotia tuberculata		P3	DBCA, WAHerb
Malvaceae	Lasiopetalum glutinosum subsp. glutinosum		P3	WAHerb
Myrtaceae	Beaufortia purpurea		P3	WAHerb
Myrtaceae	Darwinia foetida	CR	T	DBCA, EPBC, TPFL, WAHerb
Myrtaceae	Oxymyrrhine coronata		P4	TPFL, DBCA
Myrtaceae	Verticordia serrata var. linearis		P3	DBCA, WAHerb
Orchidaceae	Caladenia huegelii	EN	Т	DBCA, EPBC, TPFL
Orchidaceae	Cyanicula ixioides subsp. ixioides		P4	DBCA, WAHerb
Phyllanthaceae	Poranthera moorokatta		P2	DBCA, WAHerb
Proteaceae	Adenanthos cygnorum subsp. chamaephyton		P3	DBCA, TPFL, WAHerb
Proteaceae	Grevillea althoferorum subsp. fragilis	EN	Т	DBCA, EPBC, TPFL, WAHerb
Proteaceae	Grevillea curviloba subsp. curviloba	EN	Т	DBCA, EPBC, TPFL, WAHerb
Proteaceae	Grevillea curviloba subsp. incurva	EN	Т	DBCA, EPBC, TPFL, WAHerb
Proteaceae	Persoonia rudis		P3	DBCA, TPFL, WAHerb
Proteaceae	Synaphea grandis		P4	DBCA, WAHerb
Restionaceae	Hypolaena robusta		P4	WAHerb
Stylidiaceae	Stylidium aceratum		P3	DBCA, WAHerb

Family	ly Taxon Status			Source
		EPBC Act	BC Act/ DBCA	
Stylidiaceae	Stylidium longitubum		P4	DBCA, TPFL, WAHerb
Stylidiaceae	Stylidium paludicola		P3	DBCA, WAHerb
Stylidiaceae	Stylidium squamellosum		P2	DBCA, WAHerb
Stylidiaceae	Stylidium trudgenii		P3	DBCA, WAHerb
Xanthorrhoeaceae	Chamaescilla gibsonii		P3	DBCA, WAHerb

3.9 Fauna

3.9.1 Ecological linkages

Five ecological linkages intersect the study area. These comprise:

- Link ID 27: Links to Link number 28, 31, 29, 128, 26, 35 and links Bush Forever Sites 294 (located within the study area), 296 (located within the study area), 301 via Ellen Brook
- Link ID 28: Links to Link number 30, 94, 93, 27 and links Bush Forever Sites 80, 87, 82, 291, 292, 294 (located within the study area)
- Link ID 29: Links Bush Forever Sites 296, 294 via Kit-Monger Brook and then links Bush Forever Sites 89, 88, 86 with Link number 34
- Link ID 30: Links Bush Forever Sites 380, 462, 97 (located within the study area), 92 with Link number 28
- Link ID 31: Links Bush Forever Sites 399 (located within the study area), 6, 294 (located within the study area) and Link number 13, 27

3.9.2 Fauna diversity

A search of the *NatureMap* database identified 425 species within the 5 km of the study area. The search included 13 amphibians, 108 birds, 4 fish, 235 invertebrates, 13 mammals and 52 reptiles. There are nine invasive birds (Common Myna, House Sparrow, Common Stirling etc.), 12 invasive mammals (including rabbit, pig fox, domestic dog, cat etc.), and two invasive reptiles listed as likely to occur within the study area.

3.9.3 Conservation significant fauna

Searches of the EPBC Act PMST, *NatureMap* database and DBCA Threatened and Priority Fauna database identified the present/potential presence of 13 conservation significant fauna taxa within a 5 km buffer of the study area (Figure 5). This total does not include those species that are exclusively marine as no marine habitat is present within the study area.

Table 7 Conservation significant fauna recorded within 5 km of the study area

Species	Common name	Status		Search
		BC Act/ DBCA	EPBC Act	
Botaurus poiciloptilus	Australasian Bittern	EN	EN	NM
Calyptorhynchus banksii subsp. naso	Forest Red-tailed Black Cockatoo	VU	VU	NM, EPBC
Calyptorhynchus latirostris	Carnaby's Cockatoo	EN	EN	NM, EPBC
Falco peregrinus	Peregrine Falcon	os		NM
Leioproctus contrarius	a short-tongued bee	P3		NM
Leioproctus douglasiellus	a short-tongued bee	EN	CR	NM, EPBC
Westralunio carteri	Carter's Freshwater Mussel	VU	VU	NM, EPBC
Dasyurus geoffroii	Chuditch, Western Quoll	VU	VU	NM, EPBC
Isoodon fusciventer	Quenda, southwestern brown bandicoot	P4		NM
Macrotis lagotis	Bilby, Dalgyte, Ninu	VU	VU	NM
Notamacropus irma	Western Brush Wallaby	P4		NM
Neelaps calonotos	Black-striped Snake, black-striped burrowing snake	P3		NM
Pseudemydura umbrina	Western Swamp Tortoise, Western Swamp Turtle	CR	CR	NM, EPBC

3.10 Matters of National Environmental Significance

MNES are factors that require legislated protection in order to conserve biodiversity, protect World Heritage and National Heritage Places, and comply with international treaties. The following MNES were identified in the desktop searches:

- No World Heritage properties lie within the buffered (5 km) study area
- No National Heritage places lie within the buffered (5 km) study area
- No Wetlands of International Importance lie within the buffered (5 km) study area

- There are 5 listed Threatened Ecological Communities that are known or likely to occur within the buffered (5 km) study area
- There are 9 migratory species or their habitats that are likely or may occur within the buffered (5 km) study area
- There are 37 threatened species or their habitats that are likely or may occur within the buffered (5 km) study area.

Other Matters Protected by the EPBC Act were also identified in the desktop searches:

- There are 14 parcels of Commonwealth Land located with the buffered (5 km) study area
- There are 8 State and Territory Reserves with the buffered (5 km) study area
- One Regional Forest Agreement lies with the buffered (5 km) study area
- There are 38 invasive species or their habitats that are likely to occur within the buffered (5 km) study area.

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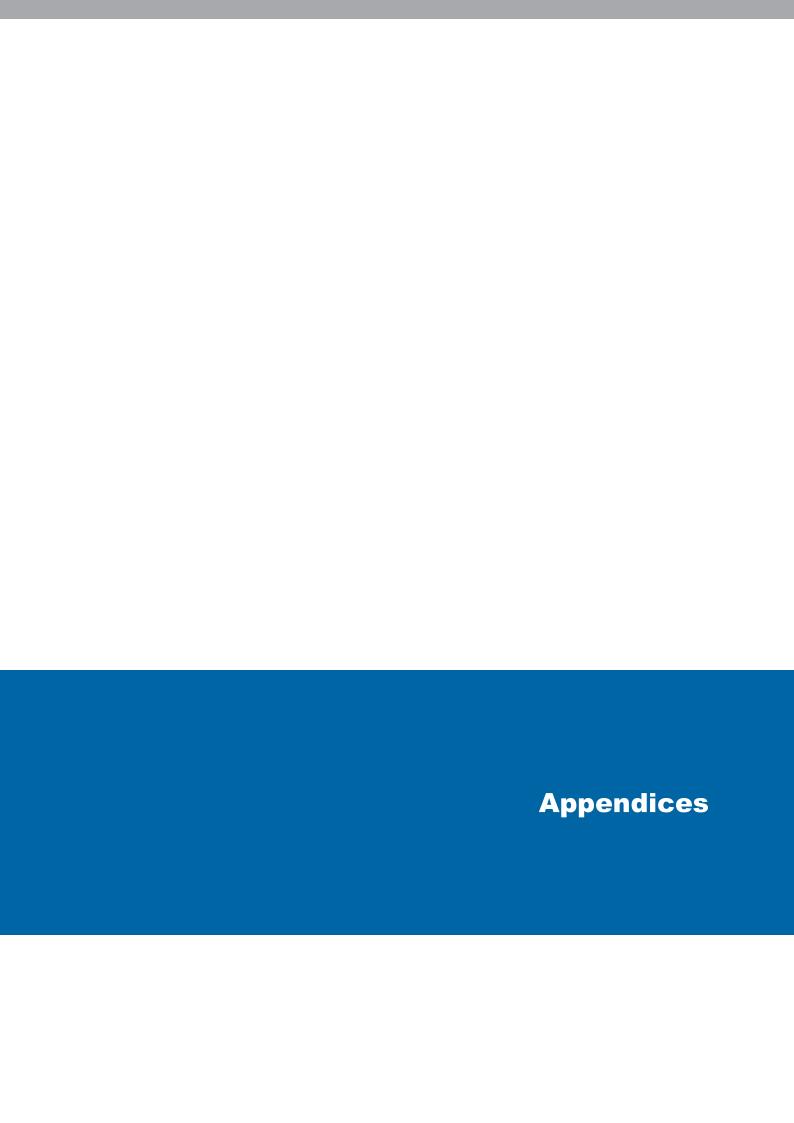
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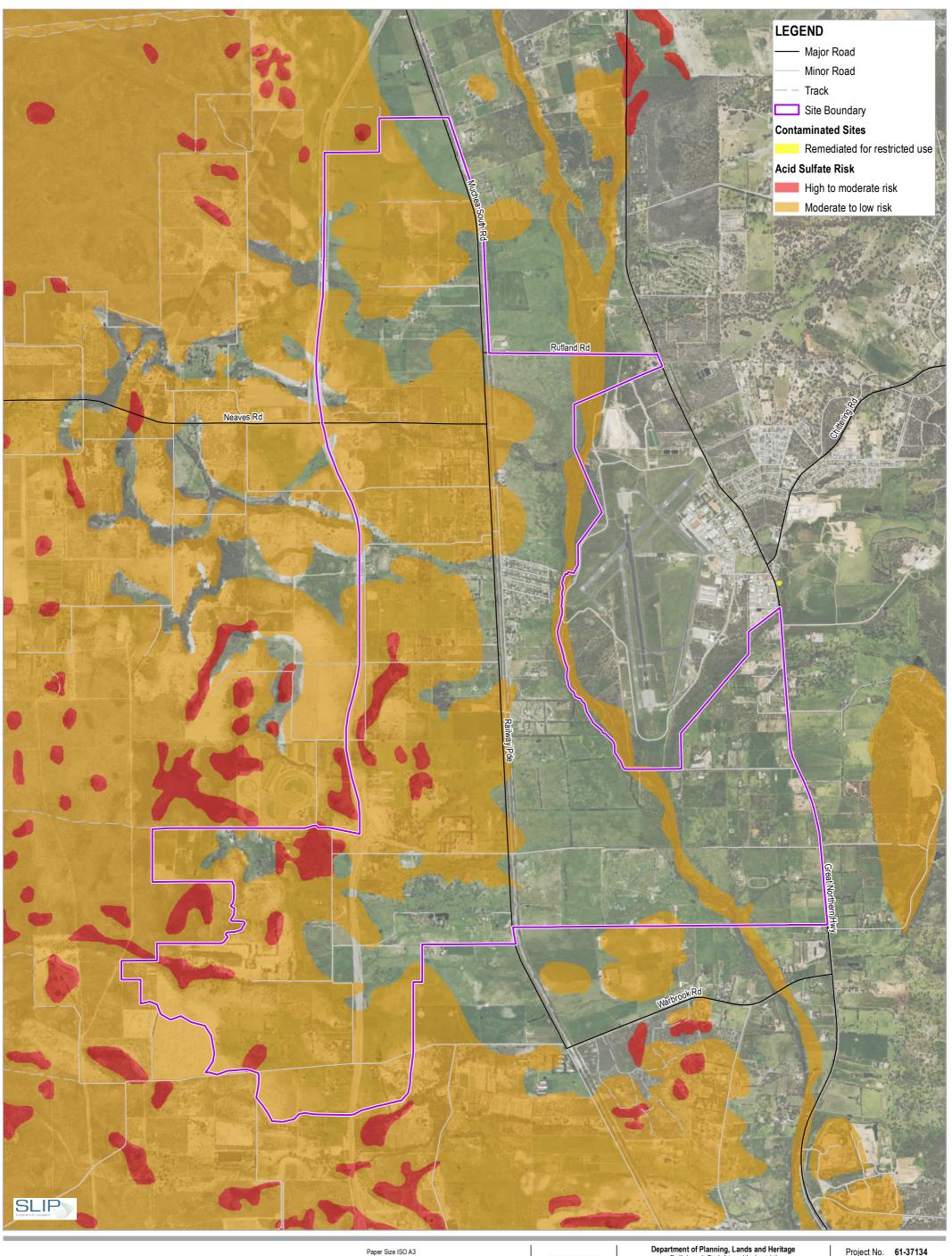
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Appendix A – Figures

Figure 1	Acid Sulfate Soils and contamination
Figure 2	Conservation Areas
Figure 3	Surface water and wetlands
Figure 4	Native vegetation, TECs and PECs and conservation significant flora records
Figure 5	Ecological linkages and conservation significant fauna records

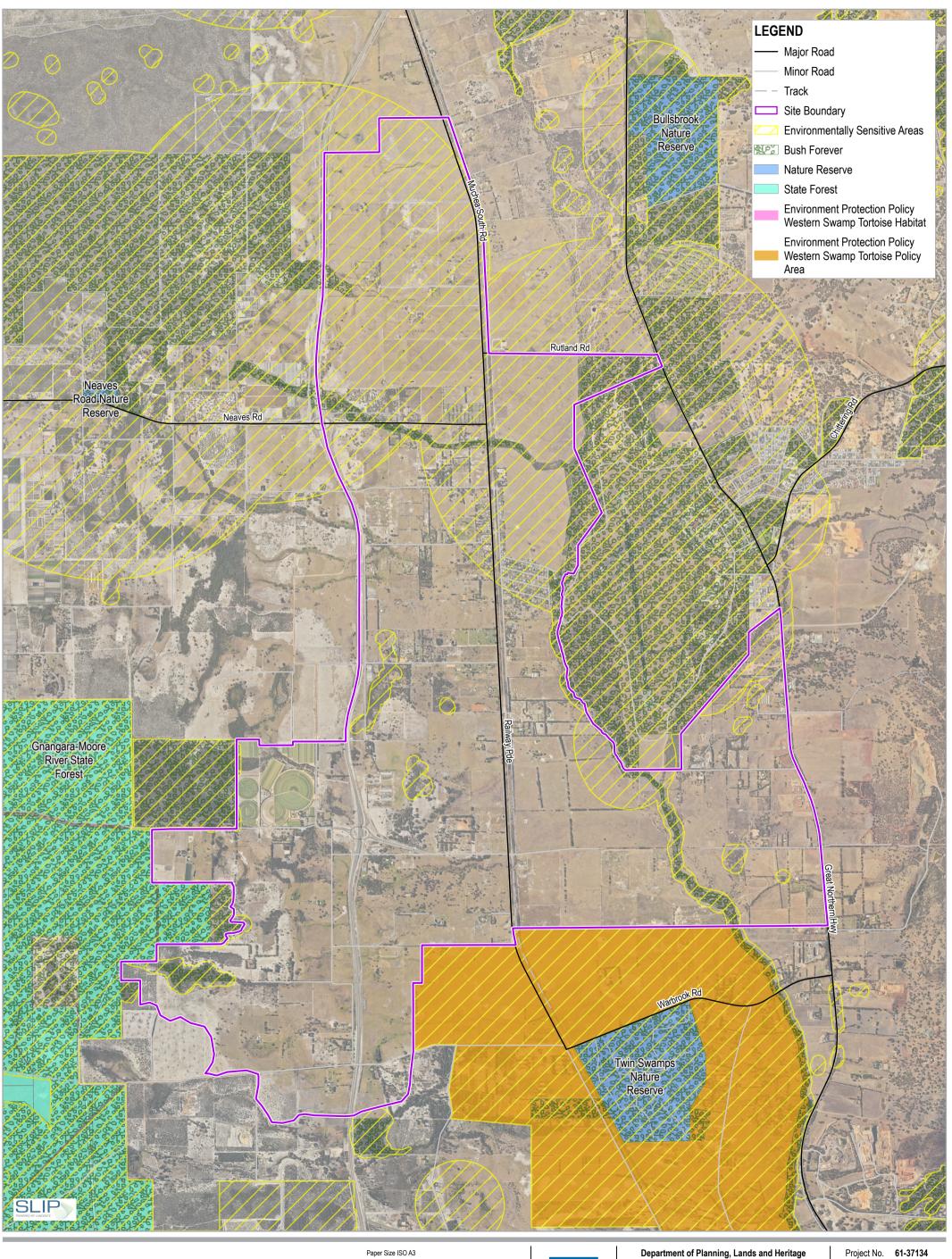


Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 50



Department of Planning, Lands and Heritage Bullsbrook Freight and Industrial Land Use Planning Strategy

Acid Sulphate Soil and Contaminated Land Project No. 61-37134
Revision No. 0 Date 10 Dec 2020



Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 50

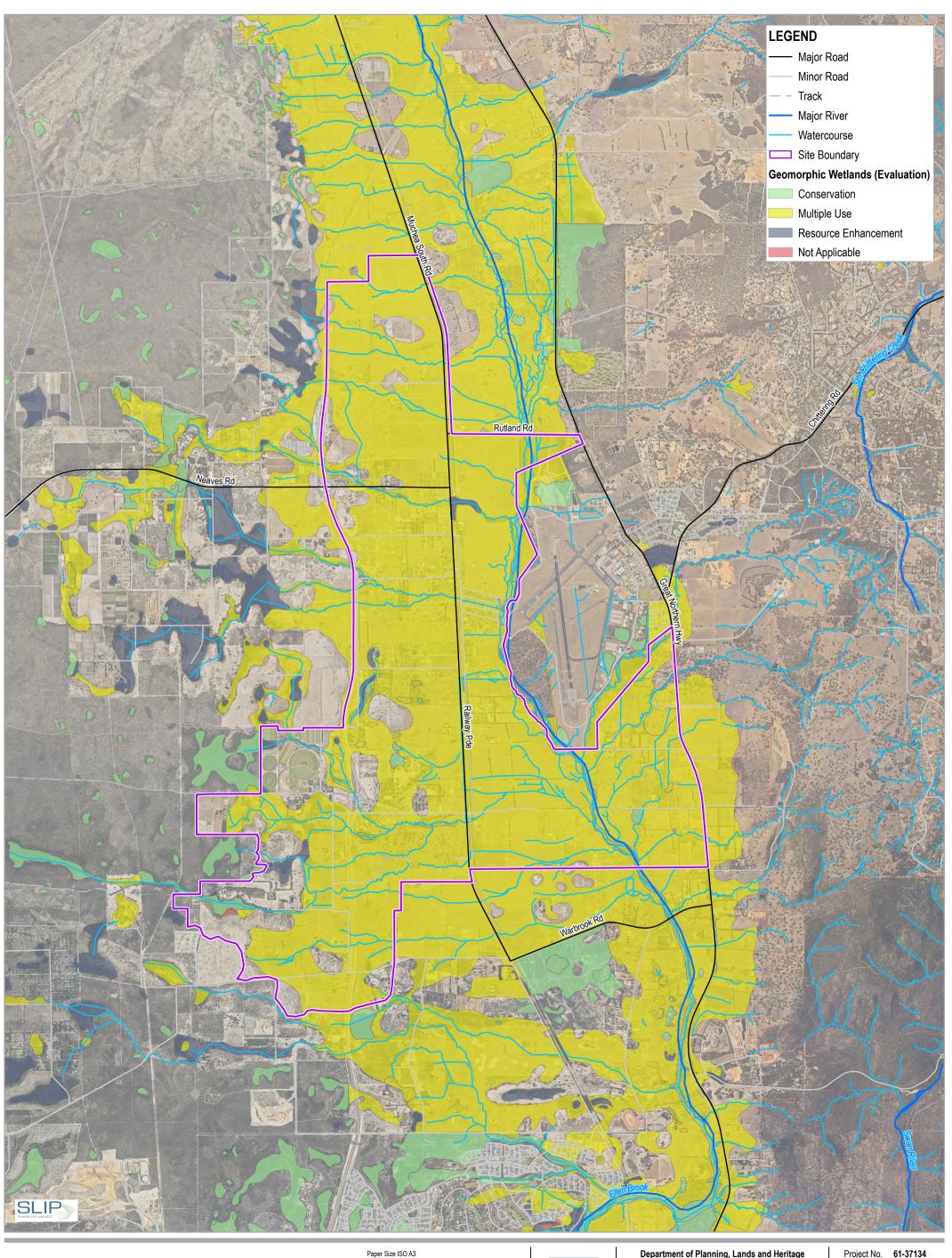


Department of Planning, Lands and Heritage Bullsbrook Freight and Industrial Land Use Planning Strategy

Revision No. 0

Date 18 Jan 2022

Conservation Areas

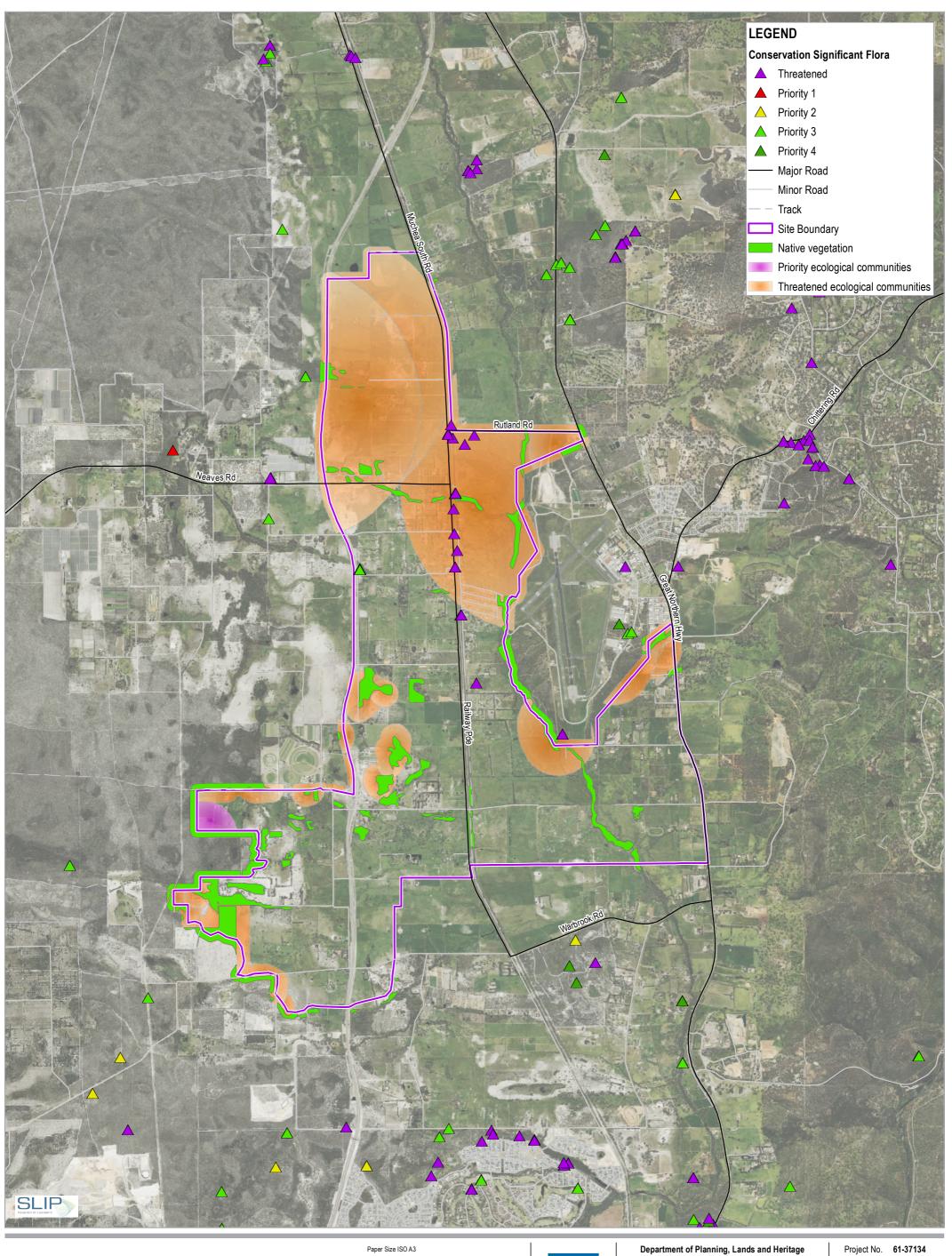




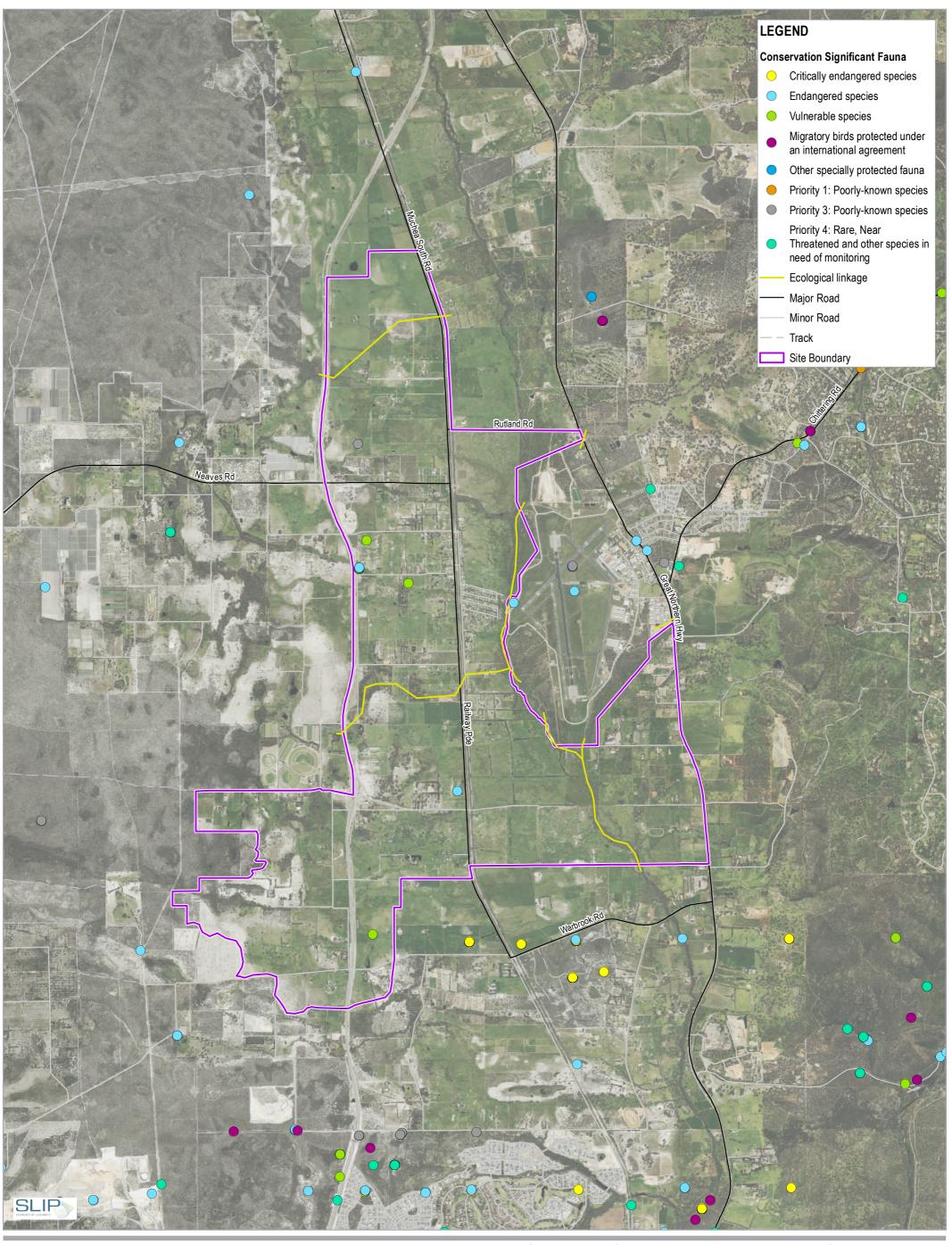
Department of Planning, Lands and Heritage Bullsbrook Freight and Industrial Land Use Planning Strategy

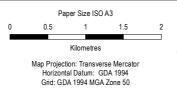
Hydrology Aspects

Project No. 61-37134
Revision No. 0
Date 18 Jan 2022



Project No. 61-37134
Revision No. 0
Date 10 Dec 2020









Department of Planning, Lands and Heritage Bullsbrook Freight and Industrial Land Use Planning Strategy

Ecological linkages and Conservation Significant Fauna

Project No. 61-37134
Revision No. 0
Date 10 Dec 2020

FIGURE 5

Appendix B – Relevant Legislation, Conservation codes and Background information

Relevant legislation

Federal Environment Protection and Biodiversity Conservation Act 1999

The Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) is the Federal Government's central piece of environmental legislation. It provides a legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities and heritage places, which are defined in the EPBC Act as Matters of National Environmental Significance (MNES).

The biological aspects listed as MNES include:

- Nationally threatened flora and fauna species and ecological communities
- Migratory species

A person must not undertake an action that has, will have, or is likely to have a significant impact (direct or indirect) on MNES, without approval from the Federal Minister for the Environment.

The EPBC Act is administered by the Department of the Environment and Energy (DoEE).

State Environmental Protection Act 1986

The *Environmental Protection Act 1986* (EP Act) is the primary legislative Act dealing with the protection of the environment in Western Australia. The Act allows the Environmental Protection Authority (EPA), to prevent, control and abate pollution and environmental harm, for the conservation, preservation, protection, enhancement and management of the environment and for matters incidental to or connected with the foregoing. Part IV of the EP Act is administered by the EPA and makes provisions for the EPA to undertake environmental impact assessment of significant proposals, strategic proposals and land use planning schemes.

The Department of Water and Environment Regulation (DWER) is responsible for administering the clearing provisions of the EP Act (Part V). Clearing of native vegetation in Western Australia requires a permit from the DWER, unless exemptions apply. Applications for clearing permits are assessed by the Department and decisions are made to grant or refuse the application in accordance with the Act. When making a decision the assessment considers clearing against the ten clearing principles as specified in Schedule 5 of the EP Act:

- a) Native vegetation should not be cleared if it comprises a high level of biodiversity.
- b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a significance habitat for fauna indigenous to Western Australia.
- c) Native vegetation should not be cleared if it includes, or is necessary, for the continued existence of rare flora.
- d) Native vegetation should not be cleared if it comprises the whole or part of native vegetation in an area that has been extensively cleared.
- e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.
- f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.
- g) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.
- h) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.

- i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.
- j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence of flooding.

Exemptions for clearing include clearing that is a requirement of a written law or authorised under certain statutory processes (listed in Schedule 6 of the EP Act) and exemptions for prescribed low impact day-to-day activities (prescribed in the Environmental Protection (Clearing of Native Vegetation) Regulations 2004); these exemptions do not apply in environmentally sensitive areas (ESAs).

State Biodiversity and Conservation Act 2016

The *Biodiversity Conservation Act 2016* (BC Act) provides for the conservation and protection of biodiversity and biodiversity components, as well as the promotion of the ecologically sustainable use of biodiversity components in Western Australia. The BC Act replaces both the repealed *Wildlife Conservation Act 1950* (WC Act) and the *Sandalwood Act 1929* (Sandalwood Act), as well as their associated regulations. To attain the objectives of the BC Act, principles of ecological sustainable development have been established:

- Decision-making processes should effectively integrate both long-term and short-term economic, environmental, social and equitable considerations
- If there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation
- The present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations
- The conservation of biodiversity and ecological integrity should be a fundamental consideration indecision-making
- Improved valuation, pricing and incentive mechanisms should be promoted.

The BC Act is administered by the Department of Biodiversity Conservation and Attractions (DBCA).

State Biosecurity and Agriculture Management Act 2007

The *Biosecurity and Agriculture Management Act 2007* (BAM Act) and associated regulations are administered by the Department of Primary Industries and Regional Development (DPIRD) and replace the repealed *Agriculture and Related Resources Protection Act 1976*. The main purposes of the BAM Act and its regulations are to:

- Prevent new animal and plant pests (vermin and weeds) and diseases from entering WA
- Manage the impact and spread of those pests already present in the state
- Safely manage the use of agricultural and veterinary chemicals
- Increased control over the sale of agricultural products that contain violative chemical residues

The Western Australian Organism List (WAOL) provides the status of organisms which have been categorised under the BAM Act. A Declared Pest is a prohibited organism or an organism for which a declaration under Section 22(2) of the Act is in force. Declared Pests may be assigned a control category including: C1 (exclusion), C2 (eradication) and C3 (management). The category may apply to the whole of the State, LGAs, districts, individual properties or even paddocks, and all landholders are obliged to comply with the specific category of control. Categories of control are defined below.

DPIRD Categories for Declared Pests under the BAM Act

Control class code	Description
C1 (Exclusion)	Pests will be assigned to this category if they are not established in Western Australia and control measures are to be taken, including border checks, in order to prevent them entering and establishing in the State.
C2 (Eradication)	Pests will be assigned to this category if they are present in Western Australia in low enough numbers or in sufficiently limited areas that their eradication is still a possibility.
C3 (Management)	Pests will be assigned to this category if they are established in Western Australia but it is feasible, or desirable, to manage them in order to limit their damage. Control measures can prevent a C3 pest from increasing in population size or density or moving from an area in which it is established into an area which currently is free of that pest.

Background information

Environmentally Sensitive Areas

Environmentally Sensitive Areas (ESAs) are declared by the Minister for Environment under Section 51B of the EP Act. The Table below outlines the aspects of areas declared as ESA in the Environmental Protection (Environmentally Sensitive Areas) Notice 2005.

Aspects of ESAs

Aspects of Environmentally Sensitive Areas

A declared World Heritage property as defined in Section 13 of the EPBC Act.

An area that is included on the Register of the National Estate (RNE), because of its natural values, under the *Australian Heritage Commission Act 1975* of the Commonwealth (the RNE was closed in 2007 and is no longer a statutory list – all references to the RNE were removed from the EPBC Act on 19 February 2012).

A defined wetland and the area within 50 m of the wetland. Defined wetlands include Ramsar wetlands, conservation category wetlands and nationally important wetlands.

The area covered by vegetation within 50 m of rare flora, to the extent to which the vegetation is continuous with the vegetation in which the rare flora is located.

The area covered by a Threatened Ecological Community.

A Bush Forever Site listed in "Bush Forever" Volumes 1 and 2 (2000), published by the Western Australia Planning Commission, except to the extent to which the site is approved to be developed by the Western Australia Planning Commission.

The areas covered by the Environmental Protection (Gnangara Mound Crown Land) Policy 1992.

The areas covered by the *Environmental Protection (Western Swamp Tortoise Habitat) Policy* 2002.

The areas covered by the lakes to which the *Environmental Protection (Swan Coastal Plain Lakes) Policy 1992* (EPP Lakes) applies.

Protected wetlands as defined in the *Environmental Protection (South West Agricultural Zone Wetlands) Policy* 1998.

Reserves and conservation areas

Bush Forever

Bush Forever, which was released in December 2000 and proclaimed in 2010, is a Government initiate aimed to retain and protect regionally significant bushland on the Swan Coastal Plain within the Perth Metropolitan Region. Bush Forever aims to protect more than 51,000 hectares of regionally significant bushland within 287 sites across the metropolitan portion of the Swan Coastal Plain (Government of Western Australia (GoWA) 2000). Bush Forever sites constitute ESAs as declared by a notice under Section 51B of the EP Act.

Department of Biodiversity, Conservation and Attractions managed lands and waters

DBCA manages lands and waters throughout Western Australia to conserve ecosystems and species, and to provide for recreation and appreciation of the natural environment. DBCA managed lands and waters include national parks, conservation parks and reserves, marine parks and reserves, regional parks, nature reserves, State forest and timber reserves. DBCA managed conservation estate, is

vested with the Conservation Commission of Western Australia. Access to, or through, some areas of DBCA managed lands may require a permit or could be restricted due to management activities. Proposed land use changes and development proposals that abut DBCA managed lands will generally be referred to DBCA throughout the assessment process.

Wetlands

Wetlands include not only lakes with open water, but areas of seasonally, intermittently or permanently waterlogged soil. Approximately 25 percent of the Swan Coastal Plain between Moore River and Mandurah is classified as wetland (Hill et al. 1996).

Though extensive in area, not all wetlands retain significant ecological values due to the concentration of urban and agricultural development in the region. Most wetlands have been cleared, filled or developed over, leaving only 20 percent of all the wetlands that were present on the Swan Coastal Plain prior to European settlement. Of these, an estimated 15 percent of the wetland area has retained high ecological values (Hill et al. 1996).

Ramsar Listed Wetlands

The Convention of Wetlands of International Importance was signed in 1971 at the Iranian town of Ramsar. The Convention has since been referred to as the Ramsar Convention. Ramsar Listed wetlands are "sites containing representative, rare or unique wetlands, or wetlands that are important for conserving biological diversity ... because of their ecological, botanical, zoological, limnological or hydrological importance" (DoEE 2017b). Once a Ramsar Listed Wetland is designated, the country agrees to manage its conservation and ensure its wise use. Under the Convention, wise use is broadly defined as "maintaining the ecological character of a wetland" (DoEE 2017b).

Nationally important wetlands

Wetlands of national significance are listed under the Directory of Important Wetlands in Australia. Nationally important wetlands are wetlands which meet at least one of the following criteria (DoEE 2017a):

- It is a good example of a wetland type occurring within a biogeographic region in Australia
- It is a wetland which plays an important ecological or hydrological role in the natural functioning of a major wetland system/complex
- It is a wetland which is important as the habitat for animal taxa at a vulnerable stage in their life cycles, or provides a refuge when adverse conditions such as drought prevail
- The wetland supports one percent or more of the national populations of any native plant or animal taxa
- The wetland supports native plant or animal taxa or communities which are considered endangered or vulnerable at the national level
- The wetland is of outstanding historical or cultural significance

Lakes covered under the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992

The Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 (EPP Lakes) protects the environmental values of selected lakes/wetlands on the Swan Coastal Plain.

Geomorphic wetlands

Categorisation of wetlands has been conducted by Hill et al. (1996), delineating Swan Coastal Plain wetlands into levels of protection and management categories. Conservation Category Wetlands are wetlands that support high levels of attributes and functions. Resource Enhancement Wetlands are those that have been partly modified but still support substantial functions and attributes. Multiple Use

Wetlands are classified as those wetlands with few attributes that still provide important wetland functions. Multiple Use wetlands have few important ecological attributes and functions remaining.

The Geomorphic Wetlands Swan Coastal Plain dataset displays the location, boundary, geomorphic classification (wetland type) and management category of wetlands on the Swan Coastal Plain.

Vegetation extent and status

The National Objectives and Targets for Biodiversity Conservation 2001–2005 (Commonwealth of Australia 2001) recognise that the retention of 30 percent or more of the pre-clearing extent of each ecological community is necessary if Australia's biological diversity is to be protected. This is the threshold level below which species loss appears to accelerate exponentially and loss below this level should not be permitted. This level of recognition is in keeping with the targets recommended in the review of the National Strategy for the Conservation of Australia's Biological Diversity (ANZECC 2000).

The extent of remnant native vegetation in WA has been assessed by Shepherd et al. (2002) and the GoWA (2019), based on broadscale vegetation association mapping by Beard (various publications). The GoWA produces Statewide Vegetation Statistics Reports that are used for a number of purposes including conservation planning, land use planning and when assessing development applications. The reports are updated every 2-3 years.

Vegetation condition

The vegetation condition can be assessed in accordance with the vegetation condition rating scale for the South West and Interzone Botanical Provinces (EPA 2016a). The scale recognises the intactness of vegetation and consists of six rating levels as outlined below.

Vegetation condition rating scale for the South West and Interzone Botanical Provinces

Condition	South West and Interzone Botanical Provinces description
Pristine	Pristine or nearly so, no obvious signs of damage caused by human activities since European settlement.
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species. Damage to trees caused by fire, the presence of non-aggressive weeds and occasional vehicle tracks.
Very Good	Vegetation structure altered, obvious signs of disturbance. Disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbances. Retains basic vegetation structure or ability to regenerate it. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
Degraded	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds at high density, partial clearing, dieback and grazing.

Condition	South West and Interzone Botanical Provinces description
Completely Degraded	The structure of vegetation is no longer intact and the area is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.

Conservation codes

Species of significant flora, fauna and communities are protected under both Federal and State Acts. The Federal EPBC Act provides a legal framework to protect and manage nationally important flora and communities. The State WC Act is the primary wildlife conservation legislation in Western Australia. Information on the conservation codes is summarised in the following sections.

Ecological communities

Conservation significant communities

Ecological communities are defined as naturally occurring biological assemblages that occur in a particular type of habitat (English and Blyth 1997). Federally listed Threatened Ecological Communities (TECs) are protected under the EPBC Act. The BC Act provides for the Minister to list an ecological community as a TEC (section 27), or as a collapsed ecological community (section 31) statutory listing of State TECs by the Minister. The legislation also describes statutory processes for preparing recovery plans for TECs, the registration of their critical habitat, and penalties for unauthorised modification of TECs.

Possible TECs that do not meet survey criteria are added to the DBCA Priority Ecological Community (PEC) List under Priorities 1, 2 and 3. These are ecological communities that are adequately known; are rare but not threatened, or meet criteria for Near Threatened. PECs that have been recently removed from the threatened list are placed in Priority 4. These ecological communities require regular monitoring. Conservation dependent ecological communities are placed in Priority 5. PECs are not listed under any formal Federal or State legislation, however, may be listed as TECs under the EPBC Act.

Codes and definitions for TECs listed under the EPBC Act and/ or BC Act

Categories	Definition		
Federal Governmen	Federal Government Conservation Categories (EPBC Act)		
Critically Endangered (CR)	An ecological community if, at that time, is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria (as outlined in Environment Protection and Biodiversity Conservation Regulations 2000)		
Endangered (EN)	 An ecological community if, at that time: A) is not critically endangered; and B) is facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria (as outlined in Environment Protection and Biodiversity Conservation Regulations 2000) 		

Categories	Definition
Vulnerable (VU)	An ecological community if, at that time:
	 A) is not critically endangered or endangered; and B) is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria (as outlined in Environment Protection and Biodiversity Conservation Regulations 2000)

Western Australia Conservation Categories (BC Act)

western Australia Conservation Categories (BC Act)		
Threatened Ecological Communities		
Critically Endangered (CR)	An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated.	
Endangered (EN)	An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.	
Vulnerable (VU)	An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.	

Collapsed ecological communities

An ecological community is eligible for listing as a collapsed ecological community at a particular time if, at that time -

- (a) there is no reasonable doubt that the last occurrence of the ecological community has collapsed); or
- (b) the ecological community has been so extensively modified throughout its range that no occurrence of it is likely to recover
 - (i) its species composition or structure; or
 - (ii) its species composition and structure.

Section 33 of the BC Act provides for a collapsed ecological community to be regarded as a threatened ecological community if it is discovered in a state that no longer makes it eligible for listing as a collapsed ecological community.

Conservation categories and definitions for PECS as listed by the DBCA

Category	Description	
Priority 1	Poorly known ecological communities.	
	Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤5 occurrences or a total area of ≤100 ha). Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.	

Category	Description	
Priority 2	Poorly known ecological communities. Communities that are known from few occurrences with a restricted distribution (generally ≤10 occurrences or a total area of ≤200 ha). At least some occurrences are not believed to be under immediate threat of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.	
Priority 3	 (i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or: (ii) communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or; (iii) communities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, and inappropriate fire regimes. Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them. 	
Priority 4	 Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring. (i) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands. (ii) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. (iii) Ecological communities that have been removed from the list of threatened communities during the past five years. 	
Priority 5	Conservation Dependent ecological communities. Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.	

Other significant vegetation

Vegetation may be significant for a range of reasons other than a statutory listing. The EPA (2016a, b) states that significant vegetation may include vegetation that includes the following:

- Restricted distribution
- Degree of historical impact from threatening processes
- A role as a refuge
- Providing an important function required to maintain ecological integrity of a significant ecosystem
- Local endemism in restricted habitats
- Novel combinations of taxa

- A role as a key habitat for Threatened species or large population representing a significant proportion of the local to regional total population of a species
- Being representative of a vegetation unit in 'pristine' condition in a highly cleared landscape, recently discovered range extensions, or isolated outliers of the main range.

This may apply at a number of levels, so the unit may be significant when considered at the fine-scale (intra-locality), intermediate-scale (locality or inter-locality) or broad-scale (local to region).

Flora and fauna

Conservation significant flora and fauna

Species of significant flora are protected under both Federal and State legislation. Any activities that are deemed to have a significant impact on species that are recognised by the EPBC Act, and/or the BC Act can warrant referral to the DEE and/or the EPA.

The Federal conservation level of flora and fauna species and their significance status is assessed under the EPBC Act. The significance levels for flora and fauna used in the EPBC Act align with the International Union for Conservation of Nature (IUCN) Red List criteria, which are internationally recognised as providing best practice for assigning the conservation status of species. The EPBC Act also protects land and migratory species that are listed under International Agreements. The list of migratory species established under section 209 of the EPBC Act comprises:

- Migratory species which are native to Australia and are included in the appendices to the Bonn Convention (Convention on the Conservation of Migratory Species of Wild Animals Appendices I and II)
- Migratory species included in annexes established under the Japan-Australia Migratory Bird Agreement (JAMBA) and the China–Australia Migratory Bird Agreement (CAMBA)
- Native, migratory species identified in a list established under, or an instrument made under, an
 international agreement approved by the Minister, such as the republic of Korea–Australia
 Migratory Bird Agreement (ROKAMBA)

The State conservation level of flora and fauna species and their significance status also follows the IUCN Red List criteria. Under the BC Act flora and fauna can be listed as Threatened, Extinct and as Specially Protected species.

Threatened species are those are species which have been adequately searched for and are deemed to be, in the wild, either rare, under identifiable threat of extinction, or otherwise in need of special protection, and have been gazetted as such. The assessment of the conservation status of Threatened species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria. Specially protected species meet one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection. Species that are listed as Threatened or Extinct species under the BC Act cannot also be listed as Specially Protected species.

Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened flora or fauna.

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

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

For the purposes of this assessment, all species listed under the EPBC Act, BC Act and DBCA Priority species are considered significant.

Categories and definitions for EPBC Act and BC Act listed flora and fauna species

Conservation category	Definition
Threatened species	
Critically Endangered (CR)	Threatened species considered to be "facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines". Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines.
Endangered (EN)	Threatened species considered to be "facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines".
	Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines
Vulnerable (VU)	Threatened species considered to be "facing a high risk of extinction in the wild in the medium term future, as determined in accordance with criteria set out in the ministerial guidelines".
	Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines.
Extinct species	
Extinct (EX)	Species where "there is no reasonable doubt that the last member of the species has died", and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).
Extinct in the Wild (EW)	Species that "is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form", and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act).
Specially protected species	

Conservation category	Definition
Migratory (MI)	Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).
	Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species
Species of special conservation interest (conservation dependent fauna) (CD)	Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened.
Other specially protected fauna (OS)	Fauna otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act).

Conservation codes for DBCA listed Priority flora and fauna

Priority category	Definition
Priority 1	Poorly-known taxa
	Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.
Priority 2	Poorly-known taxa
	Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.
Priority 3	Poorly-known taxa
	Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and

Priority category	Definition
	known threatening processes exist that could affect them. Such species are in need of further survey.
Priority 4	 Rare, Near Threatened and other taxa in need of monitoring A. Rare: Taxa that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These taxa are usually represented on conservation lands. B. Near Threatened. Taxa that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. C. Taxa that have been removed from the list of threatened taxa during the past five years for reasons other than taxonomy.

Other significant flora

Flora species, subspecies, varieties, hybrids and ecotypes may be significant for a range of reasons, other than a statutory listing. The EPA (2016a, b) states that significant flora may include taxa that have/are:

- A keystone role in a particular habitat for Threatened or Priority flora or fauna species, or large populations representing a considerable proportion of the local or regional total population of a species
- Relictual status, being representation of taxonomic or physiognomic groups that no longer occur widely in the broader landscape
- New species or anomalous features that indicate a potential new species
- Being representative of the range of a species (particularly, at the extremes of range, recently discovered range extensions, or isolated outliers of the main range)
- Unusual species, including restricted subspecies, varieties, or naturally occurring hybrids
- Local endemism (a restricted distribution) or association with a restricted habitat type (e.g. surface water or groundwater dependent ecosystems).

Other significant fauna

Fauna species may be significant for a range of reasons other than those protected by international agreement or treaty, Specially Protected or Priority Fauna. Significant fauna may include short-range endemic species, species that have declining populations or declining distributions, species at the extremes of their range, or isolated outlying populations, or species which may be undescribed (EPA 2010).

Introduced plants (weeds)

Declared Pests

Information on species considered to be Declared Pests is provided under *State Biosecurity and Agriculture Management Act 2007.*

Weeds of National Significance

The spread of weeds across a range of land uses or ecosystems is important in the context of socioeconomic and environmental values. The assessment of Weeds of National Significance (WoNS) is based on four major criteria:

- Invasiveness
- Impacts
- Potential for spread
- Socio-economic and environmental values

Australian state and territory governments have identified thirty-two Weeds of National Significance (WoNS); a list of 20 WoNS was endorsed in 1999 and a further 12 were added in 2012.

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Appendix C – Desktop searches

EPBC Act PMST Report

NatureMap Flora Report

NatureMap Fauna Report

EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

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

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

Report created: 02/07/18 16:28:32

Summary Details

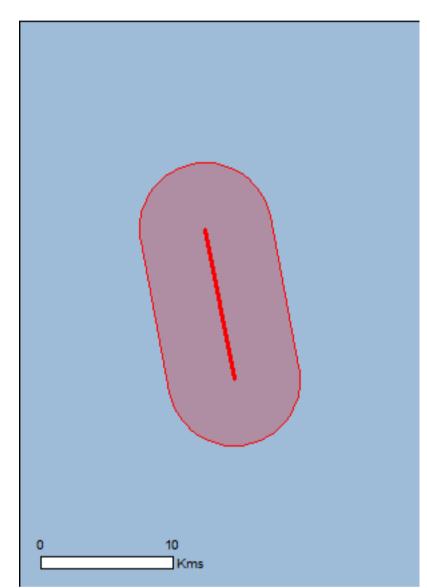
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Other Matters Protected by the EPBC Act

Extra Information

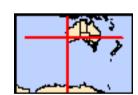
Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

Coordinates
Buffer: 5.0Km



Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	5
Listed Threatened Species:	37
Listed Migratory Species:	9

Other Matters Protected by the EPBC Act

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

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

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	14
Commonwealth Heritage Places:	None
Listed Marine Species:	15
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Commonwealth Reserves Marine:	None

Extra Information

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

State and Territory Reserves:	8
Regional Forest Agreements:	1
Invasive Species:	38
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

	[TC30dicc information]
oution is well known, maps and other sources. Where egetation maps and point lo	
Status	Type of Presence
Endangered	Community known to occur within area
Endangered	Community likely to occur within area
Critically Endangered	Community likely to occur within area
Endangered	Community known to occur within area
Endangered	Community known to occur within area
	[Resource Information]
Status	Type of Presence
Critically Endangered	Species or species habitat may occur within area
Vulnerable	Species or species habitat known to occur within area
Endangered	Species or species habitat likely to occur within area
Endangered	Species or species habitat known to occur within area
Vulnerable	Species or species habitat likely to occur within area
Critically Endangered	Species or species habitat may occur within area
Endangered	Species or species habitat may occur within area
Endangered	Species or species habitat known to occur within area
	and other sources. Where egetation maps and point leaders and angered and angered and point leaders an

[Resource Information]

Name	Status	Type of Presence
Insects		
<u>Leioproctus douglasiellus</u>		
a short-tongued bee [66756]	Critically Endangered	Extinct within area
Mammals		
Bettongia penicillata ogilbyi Woylie [66844]	Endangered	Species or species habitat
		may occur within area
Dacyurus gooffroii		
Dasyurus geoffroii Chuditah Western Quell [220]	Vulnarabla	Charles or appoint habitat
Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat
		known to occur within area
Petrogolo leterolio leterolio		
Petrogale lateralis lateralis	Endonmond	Too water and a second Care
Black-flanked Rock-wallaby, Moororong, Black-footed	Endangered	Translocated population
Rock Wallaby [66647]		known to occur within area
Other		
Westralunio carteri		
Carter's Freshwater Mussel, Freshwater Mussel	Vulnerable	Species or species habitat
<i>,</i>	vuirierable	Species or species habitat
[86266]		may occur within area
Plants		
Acacia anomala		
Grass Wattle, Chittering Grass Wattle [8153]	Vulnerable	Species or species habitat
Glass Wattle, Chittering Glass Wattle [0193]	vuirierable	likely to occur within area
		incery to occur within area
Andersonia gracilis		
Slender Andersonia [14470]	Endangered	Species or species habitat
		likely to occur within area
Anigozanthos viridis subsp. terraspectans		
Dwarf Green Kangaroo Paw [3435]	Vulnerable	Species or species habitat
		likely to occur within area
		•
Anthocercis gracilis		
Slender Tailflower [11103]	Vulnerable	Species or species habitat
		may occur within area
<u>Caladenia huegelii</u>		
King Spider-orchid, Grand Spider-orchid, Rusty	Endangered	Species or species habitat
Spider-orchid [7309]		known to occur within area
Characlassissa on Giraria (N.C. Marchart C)		
Chamelaucium sp. Gingin (N.G.Marchant 6)		
Gingin Wax [88881]	Endangered	Species or species habitat
		may occur within area
Conospermum densiflorum subsp. unicephalatum		
	Endangered	Species or species habitat
One-headed Smokebush [64871]	Endangered	Species or species habitat may occur within area
		may occur within area
Darwinia foetida		
Muchea Bell [83190]	Critically Endangered	Species or species habitat
Machea Bell [65156]	Childany Endangered	known to occur within area
		Milewii to decar within area
Diplolaena andrewsii		
[6601]	Endangered	Species or species habitat
[333.4]		likely to occur within area
		•
<u>Diuris micrantha</u>		
Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat
		may occur within area
<u>Diuris purdiei</u>		
Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat
		may occur within area
Duelse en alastias		
<u>Drakaea elastica</u>		
Glossy-leafed Hammer Orchid, Glossy-leaved	Endangered	Species or species habitat
Hammer Orchid, Warty Hammer Orchid [16753]		likely to occur within area
Eleocharis keigheryi		
3	Vulnerable	Species or appeies
Keighery's Eleocharis [64893]	v uli lol able	Species or species

Name	Status	Type of Presence
		habitat known to occur
		within area
Eucalyptus leprophloia		
Scaly Butt Mallee, Scaly-butt Mallee [56712]	Endangered	Species or species habitat
		may occur within area
Eucalyptus x balanites		
Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat
		may occur within area
<u>Grevillea althoferorum</u>		
[64906]	Endangered	Species or species habitat
		likely to occur within area
Grevillea christineae		
Christine's Grevillea [64520]	Endangered	Species or species habitat
		likely to occur within area
Grevillea curviloba subsp. curviloba		
Curved-leaf Grevillea [64908]	Endangered	Species or species habitat
	· ·	known to occur within area
Grevillea curviloba subsp. incurva		
Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat
	3	known to occur within area
<u>Lepidosperma rostratum</u>		
Beaked Lepidosperma [14152]	Endangered	Species or species habitat
	go. o a.	likely to occur within area
		mich, ie eesan minim area
Synaphea sp. Fairbridge Farm (D. Papenfus 696)		
Selena's Synaphea [82881]	Critically Endangered	Species or species habitat
Colona o Cynaphoa [02001]	Childany Endangered	likely to occur within area
		intery to occur within area
Thelymitra dedmaniarum		
Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat
	Endangered	likely to occur within area
		likely to occur within area
Thelymitra stellata		
Star Sun-orchid [7060]	Endangered	Species or species habitat
Star Suri-Orchia [7000]	Lituarigered	likely to occur within area
		likely to occur within area
Reptiles		
Pseudemydura umbrina		
•	Critically Endangered	Translagated population
Western Swamp Tortoise [1760]	Critically Endangered	Translocated population
		known to occur within area
Listed Migratory Species		[Resource Information]
	the EDDC Act. Threatens	
* Species is listed under a different scientific name on		
Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat
		likely to occur within area
Migratory Terrestrial Species		
Motacilla cinerea		
Grey Wagtail [642]		Species or species habitat
) O L- J		may occur within area
		,
Migratory Wetlands Species		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat
		may occur within area
		may Joodi wiliin arda
Calidris acuminata		
		Species or species habitat
Sharp-tailed Sandpiper [874]		Species or species habitat
		may occur within area
Calidrie forruginos		
Calidris ferruginea	Onition the Follow	On a single service :
Curlew Sandpiper [856]	Critically Endangered	Species or species

Name Threatened Type of Presence habitat may occur within

Calidris melanotos

Pectoral Sandpiper [858] Species or species habitat

may occur within area

area

Numenius madagascariensis

Eastern Curlew, Far Eastern Curlew [847] Critically Endangered Species or species habitat

may occur within area

Pandion haliaetus

Osprey [952] Species or species habitat

may occur within area

Tringa nebularia

Common Greenshank, Greenshank [832] Species or species habitat

likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [Resource Information]

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

Name

Commonwealth Land -

Defence - MUCHEA ARMAMENT RANGE

Defence - PEARCE - AP110BSTRUCTION BEACON NO.5

Defence - PEARCE - AP15 WATER TREATMENT PLANT

Defence - PEARCE - AP17 WATER SUPPLY TANKS

Defence - PEARCE - AP19 HF RECEIVER STATION BULLSBROOK

Defence - PEARCE - AP3 RADAR STATION BULLSBROOK

Defence - PEARCE - AP4 AERIAL FARM

Defence - PEARCE - AP5 OPERATIONS SITE

Defence - PEARCE - AP6 OBSTRUCTION BEACON NO.3

Defence - PEARCE - AP8 BORE SITES

Defence - PEARCE - AP9 OBSTRUCTION BEACON NO.4

Defence - PEARCE - RAAF BASE

Defence - VACANT LAND - BULLSBROOK AP102

Listed Marine Species [Resource Information]

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

Name Threatened Type of Presence

Birds

Actitis hypoleucos

Common Sandpiper [59309] Species or species habitat

may occur within area

Apus pacificus

Fork-tailed Swift [678] Species or species habitat

likely to occur within area

Ardea alba

Great Egret, White Egret [59541] Species or species habitat

likely to occur within area

Ardea ibis

Cattle Egret [59542] Species or species habitat

may occur within area

Calidris acuminata

Sharp-tailed Sandpiper [874] Species or species habitat

may occur within area

Name	Threatened	Type of Presence
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
Haliaeetus leucogaster		
White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Merops ornatus		
Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea		
Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus		
Osprey [952]		Species or species habitat may occur within area
Rostratula benghalensis (sensu lato)		
Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Thinornis rubricollis		
Hooded Plover [59510]		Species or species habitat may occur within area
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
Bullsbrook	WA
Ellen Brook	WA
Neaves Road	WA
Twin Swamps	WA
Unnamed WA46875	WA
Unnamed WA46919	WA
Unnamed WA49300	WA
Walyunga	WA
Regional Forest Agreements	[Resource Information]
Note that all areas with completed RFAs have been included.	
Name	State
South West WA RFA	Western Australia

Invasive Species [Resource Information]
Weeds reported here are the 20 species of national significance (WoNS), along with	other introduced plants
that are considered by the States and Territories to pose a particularly significant thre	at to biodiversity. The

following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Birds	Giaius	Type of Flesence
Acridotheres tristis		
Common Myna, Indian Myna [387]		Species or species habitat likely to occur within area
Anas platyrhynchos		
Mallard [974]		Species or species habitat likely to occur within area
Carduelis carduelis European Goldfinch [403]		Species or species habitat likely to occur within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Passer domesticus		
House Sparrow [405]		Species or species habitat likely to occur within area
Passer montanus		On a size a series babiles
Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis		Chasias ar anasias habitat
Spotted Turtle-Dove [780]		Species or species habitat likely to occur within area
Streptopelia senegalensis		
Laughing Turtle-dove, Laughing Dove [781]		Species or species habitat likely to occur within area
Sturnus vulgaris		
Common Starling [389]		Species or species habitat likely to occur within area
Mammals		
Bos taurus		On a s'a s an an a s'a s la sk'(a)
Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris		
Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus		
Goat [2]		Species or species habitat likely to occur within area
Felis catus		Consiss on an acies habitat
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat
		likely to occur within area
Funambulus pennantii		Choolog or angoing habitat
Northern Palm Squirrel, Five-striped Palm Squirrel [129]		Species or species habitat likely to occur within area
Mus musculus		
House Mouse [120]		Species or species habitat likely to occur within area
		,

Nama	Status	of Drocopoo
Name	Status Type	of Presence
Oryctolagus cuniculus		
Rabbit, European Rabbit [128]	Spec	cies or species habitat
	likelv	to occur within area
	,	
Rattus norvegicus		
•	Snoo	sica or angoing habitat
Brown Rat, Norway Rat [83]	•	cies or species habitat
	likely	to occur within area
Rattus rattus		
Black Rat, Ship Rat [84]	Spec	cies or species habitat
	•	to occur within area
	intory	to coodi Within area
Sus scrofa		
	Cross	
Pig [6]	•	cies or species habitat
	likely	to occur within area
Vulpes vulpes		
Red Fox, Fox [18]	Spec	cies or species habitat
, L J	•	to occur within area
	,	
Plants		
Asparagus asparagoides		
Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's	•	cies or species habitat
Smilax, Smilax Asparagus [22473]	likely	to occur within area
Brachiaria mutica		
Para Grass [5879]	Snec	cies or species habitat
	•	•
	illay	occur within area
Canabrua ailiaria		
Cenchrus ciliaris		
Buffel-grass, Black Buffel-grass [20213]	•	cies or species habitat
	may	occur within area
Chrysanthemoides monilifera		
Bitou Bush, Boneseed [18983]	Spec	cies or species habitat
,	•	occur within area
	may	occar within area
Chrysanthemoides monilifera subsp. monilifera		
·	Chan	ica an ancaica babitat
Boneseed [16905]	•	cies or species habitat
	likely	to occur within area
Genista linifolia		
Flax-leaved Broom, Mediterranean Broom, Flax Broom	Spec	cies or species habitat
[2800]	likely	to occur within area
	•	
Genista sp. X Genista monspessulana		
Broom [67538]	Snec	ies or species habitat
B100111 [07 930]	•	•
	illay	occur within area
Lantana camara		
Lantana, Common Lantana, Kamara Lantana, Large-	Spec	cies or species habitat
leaf Lantana, Pink Flowered Lantana, Red Flowered	likely	to occur within area
Lantana, Red-Flowered Sage, White Sage, Wild Sage	•	
[10892]		
Lycium ferocissimum		
•	Snoo	sios or species babitat
African Boxthorn, Boxthorn [19235]		cies or species habitat
	пкету	to occur within area
Olan auranasa		
Olea europaea		
Olive, Common Olive [9160]	•	cies or species habitat
	may	occur within area
	•	
Pinus radiata		
Radiata Pine Monterey Pine, Insignis Pine, Wilding	Sneo	cies or species habitat
,	•	·
Pine [20780]	may	occur within area
Dubus fruitissaus aggregate		
Rubus fruticosus aggregate		
Blackberry, European Blackberry [68406]	Spec	cies or species habitat
	likely	to occur within area
	-	
Salix spp. except S.babylonica, S.x calodendron & S.x	reichardtii	
Willows except Weeping Willow, Pussy Willow and		cies or species habitat
Sterile Pussy Willow [68497]	•	to occur
Otorno i dody vvinovi [OO+OI]	linely	to occur

Name	Ctatura	Type of Dyssesses
Name	Status	Type of Presence
		within area
Salvinia molesta		_
Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba		Species or species habitat
Weed [13665]		likely to occur within area
Tamarix aphylla		
Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk,		Species or species habitat
Athel Tamarix, Desert Tamarisk, Flowering Cypress,		likely to occur within area
Salt Cedar [16018]		
Reptiles		
Hemidactylus frenatus		
Asian House Gecko [1708]		Species or species habitat
		likely to occur within area
Ramphotyphlops braminus		
Flowerpot Blind Snake, Brahminy Blind Snake, Cacing		Species or species habitat
Besi [1258]		likely to occur within area
Nationally Important Wetlands		[Resource Information]
Name		State
Ellen Brook Swamps System		WA

Caveat

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

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

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

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

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

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-31.647675 115.996516,-31.735022 116.016085,-31.735022 116.016085

Acknowledgements

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

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

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

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



NatureMap Species Report Flora 5 km

Created By Guest user on 18/06/2018

Kingdom Plantae

Current Names Only Yes

Core Datasets Only Yes

Method 'By Line

Vertices 31° 36' 55" S,115° 59' 19" E 31° 38' 10" S,115° 59' 48" E 31° 43' 15" S,116° 00' 03" E 31° 43'

Group By 49" S,116° 00' 04" E

Family

Family	Species	Records
Acrobolbaceae	1	
Amaranthaceae	5	
Anarthriaceae Apiaceae	3 12	14 32
Araceae	2	(
Araliaceae	6	3
Asparagaceae	29	11
Asteraceae	46	21
Bignoniaceae	1	•
Boraginaceae	1	
Boryaceae	2 2	1
Brassicaceae Bryaceae	1	
Campanulaceae	9	20
Caryophyllaceae	7	
Casuarinaceae	3	1.
Celastraceae	1	;
Centrolepidaceae	9	60
Chenopodiaceae	2	
Colchicaceae	5 1	20
Commelinaceae Convolvulaceae	1	:
Crassulaceae	5	1.
Cupressaceae	ĭ	
Cyatheaceae	1	
Cyperaceae	61	208
Dasypogonaceae	3	14
Dennstaedtiaceae	1	
Dilleniaceae	16	82
Droseraceae Dryopteridaceae	29 1	120
Elaeocarpaceae	2	;
Ericaceae	26	12
Euphorbiaceae	4	1.
Fabaceae	80	24
Gentianaceae	4	14
Geraniaceae	2	
Goodeniaceae Haemodoraceae	20 33	6: 11:
Haloragaceae	33 7	112
Hemerocallidaceae	15	3
Hydatellaceae	3	10
Hypoxidaceae	1	
Iridaceae	13	53
Isoetaceae	1	
Juncaceae	6	2
Juncaginaceae Lamiaceae	6 6	1 ⁻
Lauraceae	7	1
Lentibulariaceae	5	10
Linaceae	1	;
Loganiaceae	1	
Loranthaceae	2	:
Lycopodiaceae	2	;
Lythraceae	1 2	
Macarthuriaceae Malvaceae	6	
Marsileaceae	1	:
Menyanthaceae	2	
Molluginaceae	1	
Montiaceae	3	
Moraceae	1	
Myrtaceae	77	31
Onagraceae Organidaeaea	2	7
Orchidaceae Orobanchaceae	39 4	7:
Orobanchaceae Oxalidaceae	3	۷.
Papaveraceae	1	
Philydraceae	1	
Phrymaceae	1	
Phyllanthaceae	3	10
	1	
Phytolaccaceae		
Phytolaccaceae Pittosporaceae	4	
Phytolaccaceae		21: 21:







Polygalaceae	4	6
Polygonaceae	5	9
Portulacaceae	3	9
Primulaceae	2	9
	62	
Proteaceae		252
Ranunculaceae	3	4
Restionaceae	17	79
Rhamnaceae	5	10
Rubiaceae	3	4
Rutaceae	4	18
Santalaceae	2	7
Sapindaceae	2	4
Schizaeaceae	1	1
Scrophulariaceae	3	5
Selaginellaceae	1	7
Solanaceae	4	8
Stylidiaceae	38	176
Surianaceae	1	2
Thelypteridaceae	1	1
Thymelaeaceae	4	10
Typhaceae	1	1
Violaceae	1	3
Xanthorrhoeaceae	7	33
Zamiaceae	1	1
Zygophyllaceae	1	1
TOTAL	905	3159





Name ID Species Name Naturalised Conservation Code ¹Endemic To Query Acrobolbaceae 1. Lethocolea pansa Amaranthaceae 2. 2652 Alternanthera nodiflora (Common Joyweed) 3. 2668 Amaranthus powellii (Powell's Amaranth) 4. 2716 Ptilotus declinatus (Curved Mulla Mulla) 5. 2742 Ptilotus manglesii (Pom Poms, Mulamula) 6. 2751 Ptilotus polystachyus (Prince of Wales Feather) Anarthriaceae 1060 Anarthria laevis 7. 1097 Lyginia barbata 9. 18049 Lyginia imberbis **Apiaceae** 10. 6205 Actinotus leucocephalus (Flannel Flower) 11. 17700 Coriandrum sativum (Coriander) 12. 6218 Daucus glochidiatus (Australian Carrot) 6219 Eryngium pinnatifidum (Blue Devils) 13. 14. 41801 Eryngium pinnatifidum subsp. Palustre (G.J. Keighery 13459) РЗ 15. 15446 Eryngium pinnatifidum subsp. pinnatifidum 6222 Homalosciadium homalocarpum 16. 11132 Platysace ramosissima 17. 18. 6284 Xanthosia candida 19. 6285 Xanthosia ciliata 20. 6287 Xanthosia fruticulosa 21. 6289 Xanthosia huegelii Araceae 22 1051 Lemna disperma (Duckweed) 23. 1049 Zantedeschia aethiopica (Arum Lily) **Araliaceae** 24. 6223 Hydrocotyle alata 25. 6226 Hydrocotyle callicarpa (Small Pennywort) 6229 Hydrocotyle diantha 26. 27. 6233 Hydrocotyle lemnoides (Aquatic Pennywort) Р1 28. 11074 Hydrocotyle striata 29. 6280 Trachymene pilosa (Native Parsnip) Asparagaceae 30. 1205 Acanthocarpus canaliculatus 31 1287 Dichopogon capillipes 32. 1289 Dichopogon preissii 33. 1307 Laxmannia ramosa (Branching Lily) 34. 11911 Laxmannia ramosa subsp. ramosa 11464 Laxmannia sessiliflora subsp. australis 35. 36 1309 Laxmannia squarrosa 37. 1223 Lomandra caespitosa (Tufted Mat Rush) 1228 Lomandra hermaphrodita 38. 1232 Lomandra micrantha (Small-flower Mat-rush) 39. 40 14542 Lomandra micrantha subsp. micrantha 41. 1234 Lomandra nigricans 42. 1239 Lomandra preissii 43. 1243 Lomandra sericea (Silky Mat Rush) 44. Lomandra sp. 45. 1246 Lomandra suaveolens 46. 1312 Sowerbaea laxiflora (Purple Tassels) 47. 1318 Thysanotus arbuscula 48. 1319 Thysanotus arenarius 49. 1320 Thysanotus asper (Hairy Fringe Lily) 1328 Thysanotus dichotomus (Branching Fringe Lily) 50 51. 1338 Thysanotus manglesianus (Fringed Lily) 52. 1339 Thysanotus multiflorus (Many-flowered Fringe Lilv) 53. 1343 Thysanotus patersonii 54 Thysanotus sp. 55. 1351 Thysanotus sparteus 56 1354 Thysanotus tenellus 57. 1357 Thysanotus thyrsoideus







Name ID	Species Name	Naturalised Co	mservation Code 'E	ndemic 10 Que Area
1358	Thysanotus triandrus			
7833	Angianthus preissianus			
7838	Arctotheca calendula (Cape Weed, African Marigold)	Υ		
7851	Asteridea pulverulenta (Common Bristle Daisy)			
7855	Bidens pilosa (Cobbler's Pegs)	Υ		
7867	Brachyscome bellidioides			
7878	Brachyscome iberidifolia			
7882	Brachyscome perpusilla			
		Υ		
		Υ		
		Y		
		Y		
		Y		
			P2	
	• • •			
8143	Olearia paucidentata (Autumn Scrub Daisy)			
8175	Podolepis gracilis (Slender Podolepis)			
8177	Podolepis lessonii			
8179	Podolepis nutans (Nodding Podolepis)			
8182	Podotheca angustifolia (Sticky Longheads)			
8183	Podotheca chrysantha (Yellow Podotheca)			
8184	Podotheca gnaphalioides (Golden Long-heads)			
8188	Pogonolepis stricta			
13255	Pterochaeta paniculata			
8195	Quinetia urvillei			
13300	Rhodanthe citrina			
13312	Rhodanthe pyrethrum			
20663	Senecio multicaulis subsp. multicaulis			
8224	Siloxerus filifolius			
8225	Siloxerus humifusus (Procumbent Siloxerus)			
8230	Sonchus asper (Rough Sowthistle)	Υ		
8231	Sonchus oleraceus (Common Sowthistle)	Υ		
8251	Trichocline spathulata (Native Gerbera)			
8255	Ursinia anthemoides (Ursinia)	Υ		
38388	Ursinia anthemoides subsp. anthemoides	Υ		
8257	Vellereophyton dealbatum (White Cudweed)	Y		
8282	Waitzia suaveolens (Fragrant Waitzia)			
	Compain radioana	V		
19713	Campsis radicans	1		
ae				
	Echium plantagineum (Paterson's Curse)	Υ		
1070	Rong scirnoidea			
	Borya sphaerocephala (Pincushions)			
1273				
1273 I e				
e	Heliophila pusilla	Y		
1e 3016	Heliophila pusilla Raphanus raphanistrum (Wild Radish)	Y Y		
1e 3016				
3016 3061	Raphanus raphanistrum (Wild Radish)			
3016 3061				
3016 3061 32380	Raphanus raphanistrum (Wild Radish)			
3016 3061 32380	Raphanus raphanistrum (Wild Radish)			
3016 3061 32380 32380	Raphanus raphanistrum (Wild Radish) Gemmabryum pachythecum	Y		
3016 3061 32380 32380 32380 32380 7394 7396	Raphanus raphanistrum (Wild Radish) Gemmabryum pachythecum Grammatotheca bergiana Isotoma hypocrateriformis (Woodbridge Poison)	Y		
3016 3061 32380 32380 32380 32380 7394 7396 7398	Raphanus raphanistrum (Wild Radish) Gemmabryum pachythecum Grammatotheca bergiana Isotoma hypocrateriformis (Woodbridge Poison) Isotoma pusilla (Small Isotome)	Y		
3016 3061 32380 32380 32380 7394 7396 7398 9289	Raphanus raphanistrum (Wild Radish) Gemmabryum pachythecum Grammatotheca bergiana Isotoma hypocrateriformis (Woodbridge Poison) Isotoma pusilla (Small Isotome) Lobelia anceps (Angled Lobelia)	Y		
3016 3061 32380 32380 32380 7394 7396 7398 9289 7408	Raphanus raphanistrum (Wild Radish) Gemmabryum pachythecum Grammatotheca bergiana Isotoma hypocrateriformis (Woodbridge Poison) Isotoma pusilla (Small Isotome)	Y		
	1358 7833 7838 7851 7855 7867 7878 7882 7916 7945 7946 7961 15137 7991 12741 8086 8092 18585 8099 8105 8106 14337 8114 8116 8117 8143 8175 8177 8179 8182 8183 8184 8188 13255 8195 13300 13312 20663 8224 8225 8230 8231 8251 8255 38388 8257 8282	19713 Campsis radicans	7833 Angianthus preissianus 7836 Arctotheca calendula (Capa Weed, African Marigold) 7851 Asteridee pulverulenta (Common Bristle Delsy) 7855 Bidens pilosa (Cobbber Pegs) 7867 Brachyscome belidioides 7878 Brachyscome perpusite 7916 Centaurea melletons (Maltese Cockspur, Malta Thistle) 7916 Centaurea melletons (Maltese Cockspur, Malta Thistle) 7916 Cotule cortuolides (Smocth Cotule) 7917 Dittrichia graveoloris (Sinkwort) 7916 Tottichia graveoloris (Sinkwort) 7917 Tottichia graveoloris (Sinkwort) 7918 Grephosis drumnondii 7917 All Polosperma cotule 7919 Grephosis drumnondii 7917 Hylosperma cotule 7919 Looloena viscosa (Sicky bioloena) 7910 Looloena viscosa (Sicky bioloena) 7910 Millotia mysoaddifolia 7910 Looloena viscosa (Sicky bioloena) 7910 Millotia terurilotia (Soft Millotia) 7911 Myriocephalus genericulusu (White-tip Myriocephalus) 7917 Podolopis lessonii 7918 Podolopis graciis (Siender Podolopis) 7919 Podolopis atricia 7910 Prodonea engrantinicia (Steky Longheads) 7910 Sieneia urvillei 7910 Sieneia urvillei 7910 Sieneia urvillei 7911 Prodolopis stricia 7912 Prodonea paparlioides (Golden Long-heads) 7918 Pogonolopis stricia 7919 Podolopis stricia 7919 Prodolopis str	T933 Anglenthus preissienus 7833 Anglenthus preissienus 7838 Antothrea alandula (Cape Weed, African Marigold) 7856 Asteridae pulverulante (Common Brista Daisy) 7857 Brachyscome beardicidae 7868 Brachyscome beardicidae 7878 Brachyscome beardicidae 788 Brachyscome beardicidae 789 Brachysco



	Name ID	Species Name	Naturalised	Conservation Code 1	Endemic To Query Area
440	27440	Managaia dabilia yay dagaaa	Y		
118.		Monopsis debilis var. depressa	Y		
119. 120.		Wahlenbergia capensis (Cape Bluebell)	Υ		
120.	7309	Wahlenbergia preissii			
Caryophylla	ceae				
121.		Corrigiola litoralis (Strapwort)	Y		
122.		Petrorhagia dubia	Υ		
123.		Silene gallica (French Catchfly)	Y		
124.		Silene gallica var. gallica	Y		
125.		Silene gallica var. quinquevulnera	Y		
126.		Spergularia brevifolia			
127.	2918	Stellaria media (Chickweed)	Υ		
Casuarinac	eae				
128.	1728	Allocasuarina fraseriana (Sheoak, Kondil)			
129.	1732	Allocasuarina humilis (Dwarf Sheoak)			
130.	1742	Casuarina obesa (Swamp Sheoak, Kuli)			
Celastracea	A				
131.		Tripterococcus brunonis (Winged Stackhousia)			
		The cooled branching (Thinged Glacitication)			
Centrolepid	aceae				
132.		Aphelia cyperoides			
133.		Centrolepis alepyroides			
134.		Centrolepis aristata (Pointed Centrolepis)			
135.		Centrolepis caespitosa		P4	
136.		Centrolepis drummondiana			
137.	1131	Centrolepis inconspicua			
138.	1132	Centrolepis mutica			
139.		Centrolepis pilosa			
140.	1134	Centrolepis polygyna (Wiry Centrolepis)			
Chenopodia	aceae				
141.		Chenopodium macrospermum	Υ		
142.		Salicornia blackiana			
Colchicacea					
143.		Baeometra uniflora	Y		
144.		Burchardia bairdiae			
145.		Burchardia congesta			
146.		Burchardia multiflora (Dwarf Burchardia)			
147.	12072	Wurmbea dioica subsp. alba			
Commelina	ceae				
148.	1162	Cartonema philydroides			
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Convolvula		Outstate on the many of the same Double or Outstan Double of			
149.	6663	Cuscuta epithymum (Lesser Dodder, Greater Dodder)	Υ		
Crassulacea	ae				
150.	17701	Crassula closiana			
151.	3137	Crassula colorata (Dense Stonecrop)			
152.	11563	Crassula colorata var. colorata			
153.	3142	Crassula natans	Υ		
154.	15706	Crassula natans var. minus	Υ		
Cuproces	20				
Cupressace		Callitrie pyramidalie (Swamp Cymros)			
155.	30000	Callitris pyramidalis (Swamp Cypress)			
Cyatheacea	е				
156.		Cyathea cooperi	Υ		
Cyneracoss					
Cyperaceae		Raumea arthrophylla			
157.	740	Baumea artirophylla Baumea artirophylla Raumea artirophylla			
157. 158.	740 741	Baumea articulata (Jointed Rush)			
157. 158. 159.	740 741 743	Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush)			
157. 158. 159. 160.	740 741 743 747	Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea rubiginosa			
157. 158. 159. 160. 161.	740 741 743 747 749	Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea rubiginosa Bolboschoenus caldwellii (Marsh Club-rush)			
157. 158. 159. 160. 161.	740 741 743 747 749 760	Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea rubiginosa Bolboschoenus caldwellii (Marsh Club-rush) Caustis dioica			
157. 158. 159. 160. 161. 162.	740 741 743 747 749 760 763	Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea rubiginosa Bolboschoenus caldwellii (Marsh Club-rush) Caustis dioica Chorizandra enodis (Black Bristlerush)			
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157. 158. 159. 160. 161. 162. 163. 164. 165.	740 741 743 747 749 760 763 768 16245	Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea rubiginosa Bolboschoenus caldwellii (Marsh Club-rush) Caustis dioica Chorizandra enodis (Black Bristlerush) Cyathochaeta avenacea Cyathochaeta teretifolia Cyperus congestus (Dense Flat-sedge)	Y	P3	
157. 158. 159. 160. 161. 162. 163. 164.	740 741 743 747 749 760 763 768 16245 783	Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea rubiginosa Bolboschoenus caldwellii (Marsh Club-rush) Caustis dioica Chorizandra enodis (Black Bristlerush) Cyathochaeta avenacea Cyathochaeta teretifolia	Y Y Y	P3	







1610		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query
171. 17160. Richard insciplency	169.	816	Cyperus tenuiflorus (Scaly Sedge)	Υ		
1712 2016 Febre various promotes (Anima)	170.	822	Eleocharis acuta (Common Spikerush)			
1714. 991 Cashwar inflate (Cash Sam-endge) 174. 991 Cashwar inflate (Cash Sam-endge) 175. 92000 Independ common or. continuous 176. 91200 Independ common or. continuous 177. 1846 Medica propriet 177. 1846 Medica propriet 177. 1849 Independ contenden 177. 1849 Independ contenden 179. 991 Independ contenden 179. 991 Independ contenden 179. 991 Independ contenden 179. 992 Independ contenden 179. 993 Independ contenden 179. 993 Independ contenden 179. 994 Independent contendent 179. 994 Independent contend	171.	17605	Eleocharis keigheryi		Т	
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195. 937 Lapdotoperma publicularianoum	183.	42742	Lepidosperma calcicola			
186. 940 Lapidosperma publiciparamenum	184.	936	Lepidosperma leptostachyum			
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198. 946 Lepótoperma atriatum 190. 955 Meconnellang practicappes 190. 955 Meconnellang practicappes 191. 957 Meconnellang practicappes 192. 973 Schoenus algenrocarpus (Potion Sedge) 192. 973 Schoenus algenrocarpus (Potion Sedge) 193. 976 Schoenus algenrocarpus (Potion Sedge) 194. 978 Schoenus dependentus 195. 980 Schoenus capalifolius 195. 980 Schoenus capalifolius 196. 980 Schoenus capalifolius 197. 984 Schoenus capalifolius 197. 984 Schoenus dependentus 198. 985 Schoenus desententus 199. 986 Schoenus desententus 199. 986 Schoenus desententus 199. 986 Schoenus desententus 199. 987 Schoenus desententus 199. 987 Schoenus desententus 199. 987 Schoenus desententus 199. 988 Schoenus desententus 199. 998 Schoenus desenten	186.	940	Lepidosperma pubisquameum			
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204. 1002 Schoerus natura (Triy Bog Rush)						
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207. 17614 Schoenus plumosus 208. 1011 Schoenus rigens	205.				P4	
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209. 1013 Schoenus sculptus (Gimlet Bog-rush) P2	207.	17614	Schoenus plumosus			
210. 16279 Schoenus sp. Bullsbrook (J.J. Alford 915) P2 Y	208.	1011	Schoenus rigens			
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222. 5108 Hibbertia acerosa (Needle Leaved Guinea Flower) 223. 5112 Hibbertia aurea 224. 5114 Hibbertia commutata 225. 5118 Hibbertia cunninghamii 226. 5134 Hibbertia hugeglii 227. 5135 Hibbertia hypericoides (Yellow Buttercups) 228. 45534 Hibbertia hypericoides subsp. hypericoides 229. 45533 Hibbertia hypericoides subsp. septentrionalis 230. 5139 Hibbertia lasiopus (Large Hibbertia) 231. 5154 Hibbertia perfoliata 232. 5162 Hibbertia racemosa (Stalked Guinea Flower) 233. 43280 Hibbertia spicata	221.	10700	The doplare mode			
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224. 5114 Hibbertia commutata 225. 5118 Hibbertia cunninghamii 226. 5134 Hibbertia huegelii 227. 5135 Hibbertia hypericoides (Yellow Buttercups) 228. 45534 Hibbertia hypericoides subsp. hypericoides 229. 45533 Hibbertia hypericoides subsp. septentrionalis 230. 5139 Hibbertia lasiopus (Large Hibbertia) 231. 5154 Hibbertia perfoliata 232. 5162 Hibbertia racemosa (Stalked Guinea Flower) 233. 43280 Hibbertia sericosepala 234. 5171 Hibbertia spicata		5108	Hibbertia acerosa (Needle Leaved Guinea Flower)			
225. 5118 Hibbertia cunninghamii 226. 5134 Hibbertia huegelii 227. 5135 Hibbertia hypericoides (Yellow Buttercups) 228. 45534 Hibbertia hypericoides subsp. hypericoides 229. 45533 Hibbertia hypericoides subsp. septentrionalis 230. 5139 Hibbertia lasiopus (Large Hibbertia) 231. 5154 Hibbertia perfoliata 232. 5162 Hibbertia racemosa (Stalked Guinea Flower) 233. 43280 Hibbertia sericosepala 234. 5171 Hibbertia spicata						
226. 5134 Hibbertia huegelii 227. 5135 Hibbertia hypericoides (Yellow Buttercups) 228. 45534 Hibbertia hypericoides subsp. hypericoides 229. 45533 Hibbertia hypericoides subsp. septentrionalis 230. 5139 Hibbertia lasiopus (Large Hibbertia) 231. 5154 Hibbertia perfoliata 232. 5162 Hibbertia racemosa (Stalked Guinea Flower) 233. 43280 Hibbertia sericosepala 234. 5171 Hibbertia spicata						
227. 5135 Hibbertia hypericoides (Yellow Buttercups) 228. 45534 Hibbertia hypericoides subsp. hypericoides 229. 45533 Hibbertia hypericoides subsp. septentrionalis 230. 5139 Hibbertia lasiopus (Large Hibbertia) 231. 5154 Hibbertia perfoliata 232. 5162 Hibbertia racemosa (Stalked Guinea Flower) 233. 43280 Hibbertia sericosepala 234. 5171 Hibbertia spicata			-			
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232. 5162 Hibbertia racemosa (Stalked Guinea Flower) 233. 43280 Hibbertia sericosepala 234. 5171 Hibbertia spicata						
233. 43280 Hibbertia sericosepala 234. 5171 Hibbertia spicata						
234. 5171 Hibbertia spicata						
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	207.	3171	τ πουστάν οριονία			of Mildlife museu







	Name ID	Species Name N	laturalised	Conservation Code	¹ Endemic To Query Area
235.	5172	Hibbertia stellaris (Orange Stars)			Area
236.	48381	Hibbertia striata			
237.	5173	Hibbertia subvaginata			
Droseraceae					
238.	3095	Drosera erythrorhiza (Red Ink Sundew)			
239.	13217	Drosera erythrorhiza subsp. erythrorhiza			
240.	13212	Drosera erythrorhiza subsp. magna			
241.	3097	Drosera gigantea (Giant Sundew)			
242.		Drosera gigantea subsp. gigantea			
243.		Drosera glanduligera (Pimpernel Sundew)			
244.		Drosera helodes			
245. 246.		Drosera heterophylla (Swamp Rainbow) Drosera hyperostigma			
247.		Drosera macrantha (Bridal Rainbow)			
248.		Drosera macrantha subsp. macrantha			
249.		Drosera menziesii (Pink Rainbow)			
250.		Drosera menziesii subsp. menziesii			
251.	13216	Drosera menziesii subsp. penicillaris			
252.	3113	Drosera neesii (Jewel Rainbow)			
253.	11768	Drosera neesii subsp. neesii			
254.	3114	Drosera nitidula (Shining Sundew)			
255.		Drosera occidentalis (Western Sundew)			
256.		Drosera occidentalis subsp. occidentalis		P4	
257.		Drosera paleacea (Dwarf Sundew)			
258. 259.		Drosera paleacea subsp. paleacea Drosera pallida (Pale Rainbow)			
260.		Drosera pariula (Fale Nambow) Drosera parvula (Small Sundew)			
261.		Drosera platystigma (Black-eyed Sundew)			
262.		Drosera pulchella (Pretty Sundew)			
263.		Drosera rosulata			
264.	13185	Drosera spilos			
265.	3131	Drosera stolonifera (Leafy Sundew)			
266.	13607	Drosera x badgerupii			Υ
Dryopteridad					
267.		Cyrtomium falcatum	Y		
Elaeocarpac		Platithese galicides			
269.		Platytheca galioides Tetratheca hirsuta subsp. hirsuta			
	.00 .2	Total Source Amount Subsept Amount			
Ericaceae					
270.		Andersonia heterophylla			
271. 272.		Andersonia lehmanniana			
273.		Andersonia lehmanniana subsp. lehmanniana Astroloma glaucescens			
274.		Astroloma macrocalyx (Swan Berry)			
275.		Astroloma pallidum (Kick Bush)			
276.		Astroloma stomarrhena (Red Swamp Cranberry)			
277.		Astroloma xerophyllum			
278.	6341	Brachyloma preissii (Globe Heath)			
279.	6347	Conostephium minus (Pink-tipped Pearl flower)			
280.		Conostephium pendulum (Pearl Flower)			
281.		Conostephium preissii			
282.		Croninia kingiana			
283.		Leucopogon australis (Spiked Beard-heath)			
284.		Leucopogon conostephioides			
285.		Leucopogon glaucifolius			
286. 287.		Leucopogon oxycedrus Leucopogon polymorphus			
288.		Leucopogon propinquus			
289.		Leucopogon pulchellus (Beard-heath)			
290.		Leucopogon squarrosus subsp. squarrosus			
291.		Leucopogon tenuis			
292.		Lysinema ciliatum (Curry Flower)			
293.	6458	Lysinema elegans			
294.	34736	Lysinema pentapetalum			
295.	48297	Styphelia filifolia		P3	
Euphorbiace	ae				
296.		Euphorbia peplus (Petty Spurge)	Υ		
297.	4662	Monotaxis grandiflora (Diamond of the Desert)			***************************************
		NatureMan is a collaborative project of the Department of Parks and Wildlife and the Western A	Australian Muse	Department Parks and V	of wildlife museu







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
298.		Monotaxis occidentalis			
299.	4713	Stachystemon axillaris (Leafy Stachystemon)			
Fabaceae 300.	2210	Acacia anomala (Grass Wattle)		т	
301.		Acacia applanata		'	
302.		Acacia barbinervis subsp. barbinervis			
303.	3254	Acacia celastrifolia (Glowing Wattle)			
304.		Acacia drewiana subsp. drewiana			
305.		Acacia drummondii subsp. affinis		P3	
306. 307.		Acacia erinacea Acacia huegelii			
308.		Acacia iteaphylla	Υ		
309.		Acacia lasiocarpa (Panjang)			
310.	15721	Acacia lasiocarpa var. sedifolia			
311.		Acacia nervosa (Rib Wattle)			
312.		Acacia pulchella (Prickly Moses)			
313. 314.		Acacia pulchella var. glaberrima Acacia pulchella var. pulchella			
315.		Acacia pulchella var. reflexa			
316.		Acacia saligna (Orange Wattle, Kudjong)			
317.	30033	Acacia saligna subsp. lindleyi			
318.	30032	Acacia saligna subsp. saligna			
319.		Acacia sessilis			
320. 321.		Acacia willdenowiana (Grass Wattle) Aotus cordifolia			
322.		Aotus gracillima			
323.		Bossiaea eriocarpa (Common Brown Pea)			
324.	35838	Cristonia biloba subsp. biloba			
325.		Daviesia angulata			
326.		Daviesia brachyphylla			
327. 328.		Daviesia decurrens (Prickly Bitter-pea) Daviesia divaricata subsp. divaricata			
329.		Daviesia luvalicata subsp. divalicata Daviesia horrida (Prickly Bitter-pea)			
330.		Daviesia longifolia			
331.		Daviesia nudiflora			
332.	3832	Daviesia physodes			
333.		Daviesia preissii			
334.		Daviesia triflora Euchilopoia linearia (Swamp Rea)			
335. 336.		Euchilopsis linearis (Swamp Pea) Eutaxia virgata			
337.		Gastrolobium calycinum (York Road Poison)			
338.	20473	Gastrolobium ebracteolatum			
339.	20483	Gastrolobium linearifolium			
340.		Gastrolobium praemorsum			
341. 342.		Gastrolobium retusum Gastrolobium spinosum (Prickly Poison)			
343.		Gastrolobium confertum			
344.		Gompholobium knightianum			
345.	3951	Gompholobium marginatum			
346.		Gompholobium preissii			
347.		Gompholobium scabrum			
348. 349.		Gompholobium tomentosum (Hairy Yellow Pea) Hardenbergia comptoniana (Native Wisteria)			
350.		Hovea trisperma (Common Hovea)			
351.		Hovea trisperma var. grandiflora			
352.	12859	Hovea trisperma var. trisperma			
353.		Isotropis cuneifolia (Granny Bonnets)			
354.		Isotropis cuneifolia subsp. glabra		P2	
355. 356.		Jacksonia floribunda (Holly Pea) Jacksonia furcellata (Grey Stinkwood)			
357.		Jacksonia sternbergiana (Stinkwood, Kapur)			
358.		Kennedia nigricans (Black Kennedia)			
359.		Kennedia prostrata (Scarlet Runner)			
360.	11289	Labichea lanceolata subsp. lanceolata			
361.		Latrobea tenella			
362. 363		Lotus angustissimus (Narrowleaf Trefoil)	Y		
363. 364.		Lotus subbiflorus Lupinus angustifolius (Narrowleaf Lupin)	Y Y		
365.		Medicago polymorpha (Burr Medic)	Y		
366.		Melilotus indicus			
				Departmen	tof







	Name ID	Species Name	Naturalised	Conservation Code	Endemic To Que Area
367.	/112	Ornithanus compressus (Vallay Sarradalla)	Y		
368.		Ornithopus compressus (Yellow Serradella)	Y		
369.		Ornithopus pinnatus (Slender Serradella) Pultenaea ericifolia	Ť		
370.		Pultenaea ericulata			
371.		Sphaerolobium linophyllum			
371.		Sphaerolobium vimineum (Leafless Globe Pea)			
373.		Trifolium arvense var. arvense	Υ		
374.		Trifolium campestre var. campestre (Hop Clover)	Y		
375.		Trifolium dubium (Suckling Clover)	Y		
376.		Trifolium subterraneum (Subterranean Clover)	Y		
377.		Vachellia karroo	Y		
378.		Vicia sativa (Common Vetch)	Υ		
379.		Viminaria juncea (Swishbush, Koweda)	•		
entianace					
380.		Centaurium erythraea (Common Centaury)	Υ		
381.		Centaurium tenuiflorum	Y		
382.		Cicendia filiformis (Slender Cicendia)	Υ		
383.		Schenkia australis	•		
eraniacea		5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
384.		Erodium botrys (Long Storksbill)	Y		
385.	4339	Geranium molle (Dove's Foot Cranesbill)	Υ		
oodeniace	ae				
386.	12724	Anthotium junciforme			
387.	7428	Dampiera coronata (Wedge-leaved Dampiera)			
388.	7454	Dampiera linearis (Common Dampiera)			
389.	7482	Dampiera teres (Terete-leaved Dampiera)			
390.	8614	Goodenia claytoniacea			
391.	29362	Goodenia coerulea			
392.	12551	Goodenia micrantha			
393.	7538	Goodenia pulchella			
394.	7568	Lechenaultia biloba (Blue Leschenaultia)			
395.	7572	Lechenaultia expansa			
396.	7574	Lechenaultia floribunda (Free-flowering Leschenaultia)			
397.	7595	Scaevola anchusifolia			
398.	7603	Scaevola canescens (Grey Scaevola)			
399.	7613	Scaevola glandulifera (Viscid Hand-flower)			
400.		Scaevola lanceolata (Long-leaved Scaevola)			
401.	7634	Scaevola phlebopetala (Velvet Fanflower)			
402.		Scaevola repens			
403.		Scaevola repens var. repens			
404.		Velleia trinervis			
405.	7666	Verreauxia reinwardtii (Common Verreauxia)			
aemodora	ceae				
406.	11470	Anigozanthos bicolor subsp. bicolor			
407.	1409	Anigozanthos humilis (Catspaw)			
408.	11434	Anigozanthos humilis subsp. humilis			
409.	1411	Anigozanthos manglesii (Mangles Kangaroo Paw, Kurulbrang)			
410.	29487	Anigozanthos manglesii var. x angustifolius			
411.	1416	Anigozanthos viridis (Green Kangaroo Paw, Kurulbardang)			
412.	29436	Anigozanthos viridis subsp. Cataby (S.D. Hopper 1786)			
413.	11566	Anigozanthos viridis subsp. viridis			
414.	1417	Blancoa canescens (Winter Bell)			
415.	1418	Conostylis aculeata (Prickly Conostylis)			
416.	11826	Conostylis aculeata subsp. aculeata			
417.	11552	Conostylis aculeata subsp. bromelioides			
418.	11513	Conostylis aculeata subsp. cygnorum			
419.	12109	Conostylis aculeata subsp. preissii			
420.	1420	Conostylis androstemma (Trumpets)			
421.	1423	Conostylis aurea (Golden Conostylis)			
422.	1429	Conostylis caricina			
	12035	Conostylis caricina subsp. caricina			
423.	1436	Conostylis juncea			
423. 424.		Conostylis setigera (Bristly Cottonhead)			
		Conostyns seugera (Bristly Cottonneau)			
424.	1454	Conostylis setigera subsp. setigera			
424. 425.	1454 11597				
424. 425. 426.	1454 11597 1455	Conostylis setigera subsp. setigera			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query
430.	1/60	Haemodorum Ioratum		P3	Area
431.		Haemodorum simplex		13	
432.		Haemodorum spicatum (Mardja)			
433.		Macropidia fuliginosa (Black Kangaroo Paw)			
434.		Phlebocarya ciliata			
435.		Phlebocarya filifolia			
436.		Phlebocarya pilosissima subsp. pilosissima		P3	
437.		Tribonanthes australis			
438.		Tribonanthes longipetala			
Haloragace					
439.		Glischrocaryon aureum (Common Popflower)			
440.		Gonocarpus nodulosus			
441.		Gonocarpus pithyoides			
442.		Meionectes brownii (Swamp Raspwort)			
443.		Meionectes tenuifolia		P3	
444.		Myriophyllum crispatum			
445.	6192	Myriophyllum drummondii			
Hemerocall	idaceae				
446.	23474	Agrostocrinum hirsutum			
447.	1261	Agrostocrinum scabrum (Blue Grass Lily)			
448.	23501	Agrostocrinum scabrum subsp. scabrum			
449.		Arnocrinum preissii			
450.	1276	Caesia micrantha (Pale Grass Lily)			
451.	1285	Corynotheca micrantha (Sand Lily)			
452.	11283	Corynotheca micrantha var. micrantha			
453.	1259	Dianella revoluta (Blueberry Lily)			
454.	1293	Hensmania turbinata			
455.	1295	Johnsonia acaulis			
456.	1298	Johnsonia pubescens (Pipe Lily)			
457.	19632	Johnsonia pubescens subsp. pubescens			
458.	1260	Stypandra glauca (Blind Grass)			
459.	1361	Tricoryne elatior (Yellow Autumn Lily)			
460.	1363	Tricoryne tenella			
Uvdetellese					
Hydatellace		Twith win hib vestes to			
461.		Trithuria assidantalia (Curan I ludatalla)		-	
462.		Trithuria occidentalis (Swan Hydatella)		Т	
463.	1141	Trithuria submersa			
Hypoxidace					
464.	43761	Pauridia occidentalis var. occidentalis			
Iridaceae					
465.	1520	Gladiolus caryophyllaceus (Wild Gladiolus)	Υ		
466.		Gladiolus undulatus (Wild Gladiolus)	Υ		
467.		Hesperantha falcata	Υ		
468.	19179	Moraea flaccida (One-leaf Cape Tulip)	Υ		
469.		Moraea miniata (Two-leaf Cape Tulip)	Υ		
470.		Patersonia juncea (Rush Leaved Patersonia)			
471.		Patersonia occidentalis (Purple Flag, Koma)			
472.		Patersonia occidentalis var. angustifolia			
473.		Patersonia occidentalis var. occidentalis			
474.		Romulea rosea (Guildford Grass)	Υ		
475.		Romulea rosea var. australis (Guildford Grass)	Y		
476.		Romulea rosea var. communis	Y		
477.	18118	Watsonia meriana var. meriana	Υ		
Isoetaceae					
478.	11	Isoetes drummondii (Quillwort)			
Juncaceae					
479.	1178	Juncus bufonius (Toad Rush)	Υ		
480.		Juncus capitatus (Capitate Rush)	Y		
481.		Juncus holoschoenus (Jointleaf Rush)			
482.		Juncus pallidus (Pale Rush)			
483.		Juncus planifolius (Broadleaf Rush)			
484.		Juncus subsecundus (Finger Rush)			
Juncaginac					
485.		Cycnogeton lineare			
486.		Triglochin bulbosa	Υ		
487.	33676	Triglochin calcitrapa			
				Department of	







148		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quer Area
Lamiscoes Lamiscoes 482	488.	147	Triglochin mucronata			
Amiliacease	489.	148	Triglochin muelleri			
491	490.	150	Triglochin stowardii			
491	Lamiaceae					
484, 170		6838	Hemiandra linearis (Speckled Snakebush)			
448. 1709 Information provide enhancified serio profite 488. 489. 480. 4	492.	6839	Hemiandra pungens (Snakebush)			
495	493.	6842	Hemigenia barbata			
Autorace	494.	17209	Lachnostachys verbascifolia var. verbascifolia			
Lauracease 447. 265 Cassyrina (product Laurace) 448. 262 Cassyrina (product Laurace) 449. 1121 Cassyrina (product Laurace) 449. 1121 Cassyrina (product Laurace) 500. 265 Cassyrina (product Laurace) 501. 267 Cassyrina (product Laurace) 502. 1122 Cassyrina (product Laurace) 503. 1178 Cassyrina (product Laurace) 504. 1178 Cassyrina (product Laurace) 505. 1178 Cassyrina (product Laurace) 506. 1178 Cassyrina (product Laurace) 507. 1178 Cassyrina (product Laurace) 508. 1170 Unicabativa discharina discharina (product Laurace) 509. 1180 Unicabativa discharina (product Laurace) 509. 1190 Unicabativa (product Laurace) 510. 1197 Prigrangium paraedoxum Loranthaceae 511 Silver Unicabativa (product Laurace) 512 Unicabativa (product Laurace) 513 Silver Unicabativa (product Laurace) 514 Unicabativa (product Laurace) 515 Silver Unicabativa (product Laurace) 516 Silver Unicabativa (product Laurace) 517 Unicabativa (product Laurace) 518 Silver Unicabativa (product Laurace) 519 Silver Unicabativa (product Laurace) 510 Silver Unicabativa (product Laurace) 511 Silver Unicabativa (product Laurace) 512 Silver Unicabativa (product Laurace) 513 Silver Unicabativa (product Laurace) 514 Silver Unicabativa (product Laurace) 515 Silver Unicabativa (product Laurace) 516 Silver Unicabativa (product Laurace) 517 Prilamenta (product Laurace) 518 Silver Unicabativa (product Laurace) 519 Silver Unicabativa (product Laurace) 520 Silver Unicabativa (product Laurace) 521 Silver Unicabativa (product Laurace) 522 Silver Unicabativa (product Laurace) 523 Silver Unicabativa (product Laurace) 524 Silver Unicabativa (product Laurace) 525 Silver Unicabativa (product Laurace) 526 Silver Unicabativa (product Laurace) 527 Silver Unicabativa (product Laurace) 528	495.	6897	Microcorys longifolia			
498,	496.	6930	Stachys arvensis (Staggerweed)	Υ		
497. 281 Casyaha flave (Doctor Laura) 498. 498. 1211 Casyaha flave (Doctor Laura) 498. 1211 Casyaha calebelle former depar 500. 2856 Casyaha canonica (Coder Laura) 501. 2857 Casyaha canonica (Coder Laura) 502. 1122 Casyaha canonica (Coder Laura) 503. 1179 Casyaha canonica (Coder Laura) 503. 1179 Casyaha canonica (Coder Laura) 505. 7138 Uncusina reasonase (Carria Coder Laura) 505. 7138 Uncusina reasonase (Carria Coder Laura) 505. 7138 Uncusina reasonase (Carria Coder Laura) 705. 7155 Uncusina reasonase (Visia Bladerover) 705. 7155 Uncusina reasonase (Visia Bladerover) 705. 7155 Uncusina reasona (Visia Bladerover) 705. 705	Lauraceae					
490		2951	Cassytha flava (Dodder Laurel)			
501. 205 Casynha pomintrina (Dodder Laured) 501. 1970 Casynha pomintensia (Dodder Laured) 502. 1912 Casynha pomintensia (Dodder Laured) 503. 1970 Casynha pomintensia (Dodder Laured) 505. 1970 Casynha pomintensia (Dodder Laured) 505. 1971 1971 Casynha pomintensia (Dodder Laured) 505. 1971 1971 Casynha pomintensia (Dodder Laured) 505. 1971 19	498.	2952	Cassytha glabella (Tangled Dodder Laurel)			
50.1	499.	11211	Cassytha glabella forma dispar			
1	500.	2956	Cassytha pomiformis (Dodder Laurel)			
Eventiburiacceare	501.	2957	Cassytha racemosa (Dodder Laurel)			
Section 17-13 Minicularia dichotoma (Fairy Agrons) 17-13 Minicularia dichotoma (Fairy Agrons) 17-14 Minicularia misequalia 17-15 Minicularia misequ	502.	11242	Cassytha racemosa forma pilosa			
595. 7131 Unicularia deloctorum (Fairy Agrons)	503.	11799	Cassytha racemosa forma racemosa			
505. 7131 Vincularia dichotoma (Finiry Aprona)	Lentibulariac	eae				
505. 7136 Uricularia managualis 506. 7150 Uricularia managualis 507. 7150 Uricularia multifolis 507. 7150 Uricularia multifolis 508. 7157 Uricularia multifolis 508. 7157 Uricularia multifolis 508. 4363 Limum trigymum (French Flax) Y			Utricularia dichotoma (Fairy Aprons)			
506. 7148 Unicularia mullifia 506. 7157 Unicularia mullifia 506. 7157 Unicularia vicinea (Vicial Biaddenvari)						
Sign						
Linaceae 500. 4363 Linum trigynum (French Flax) Y Loganiaceae 510. 16177 Phyllangium paradoxum Loranthaceae 511. 2380 Amyerna miquelii (Stalked Matletoe) 512. 2401 Nuytsa floribunda (Christmas Tree, Mudja) Lycopodiaceae 513. 12783 Lycopodialia sarpantina 514. 4 Phyllagiossum drummondii (Pigmy Clubmoss) Lythraceae 515. 5281 Lythrum hyasopitolia (Lesser Locaesarife) Y Macarthuriaceae 516. 2333 Macarthuria australia 517. 2393 Macarthuria australia 518. 1892 Guichenotia tuberculata 519. 3034 Laisopetalum glubrosum subsp. latifolium 519. 3030 Laisopetalum glubrosum subsp. latifolium 520. 4690 Laisopetalum glubrosum subsp. latifolium 521. 389 Thomasia grandiflora (Large Flowered Thomasia) Marsileaceae 522. 3810 [Jiparophyllum capitalum 523. 3810 [Jiparophyllum capitalum 524. 78 Pillularia novae-hollandiae (Austral Pillwort) Menyanthaceae 526. 3810 [Jiparophyllum capitalum 527. 283 Glinus oppositifolius Molluginaceae 528. 2810 Galandrinia (Pink Purslane) 529. 2820 Calandrinia (Pink Purslane) 520. 2820 Calandrinia (Pink Purslane) 521. 1747 Flous cantou (Pink Purslane)		7153	Utricularia tenella			
Solic Asia Insum trigynum (French Flax) Y	508.	7157	Utricularia violacea (Violet Bladderwort)			
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	509.	4303	Linum trigynum (French Flax)	Y		
Si1	Loganiaceae					
	510.	16177	Phyllangium paradoxum			
	Loranthaceae	_				
			Amvema micuelii (Stalked Mistletoe)			
Lycopodiaceae 1513. 12783						
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	514.	4	Phylloglossum drummondii (Pigmy Clubmoss)			
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	515.	5281	Lythrum hyssopifolia (Lesser Loosestrife)	Υ		
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519. 5034 Lasiopetalum glabratum 520. 45082 Lasiopetalum glutinosum subsp. latifolium 521. 4959 Lawrencia squamata 522. 5080 Thomasia foliosa 523. 5084 Thomasia grandiflora (Large Flowered Thomasia) Marsileaceae 524. 78 Pilularia novae-hollandiae (Austral Pillwort) Menyanthaceae 525. 36160 Liparophyllum capitatum 526. 36177 Ornduffia albiflora Molluginaceae 527. 2836 Glinus oppositifolius Montiaceae 528. 2846 Calandrinia calyptrata (Pink Purslane) 529. 2856 Calandrinia Iniflora (Parakeelya) 530. 16365 Calandrinia sp. Kenwick (G.J. Keighery 10905) Moraceae 531. 1747 Ficus carica (Common Fig) Y Mytaceae 532. 2035 Astartea affinis (West-coast Astartea)						
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532. 20350 Astartea affinis (West-coast Astartea)	531.	1747	Ficus carica (Common Fig)	Y		
532. 20350 Astartea affinis (West-coast Astartea)	Myrtaceae					
	-	20350	Astartea affinis (West-coast Astartea)			
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
534.	20283	Astartea scoparia (Common Astartea)			
535.	36441	Babingtonia camphorosmae (Camphor Myrtle)			
536.		Beaufortia elegans (Elegant Beaufortia)			
537.		Beaufortia macrostemon (Darling Range Beaufortia)			
538.		Calothamnus lateralis			
539.		Calothamnus quadrifidus (One-sided Bottlebrush, Kwowdjard)			
540. 541.		Calothamnus sanguineus (Silky-leaved Blood flower, Pindak) Calytrix angulata (Yellow Starflower)			
542.		Calytrix angulata (Tellow Starllower) Calytrix flavescens (Summer Starflower)			
543.		Calytrix fraseri (Pink Summer Calytrix)			
544.		Calytrix sapphirina			
545.		Calytrix strigosa			
546.	5485	Calytrix variabilis			
547.	35598	Chamelaucium sp. Winchester (C. Chapman s.n. PERTH 07879180)			
548.	5498	Chamelaucium uncinatum (Geraldton Wax)			
549.		Corymbia calophylla (Marri)			
550.		Darwinia citriodora (Lemon-scented Darwinia)			
551.		Darwinia foetida		Т	Υ
552.		Darwinia thymoides			
553. 554.		Eremaea asterocarpa subsp. asterocarpa Eremaea pauciflora			
555.		Eremaea pauciflora var. pauciflora			
556.		Eremaea purpurea			
557.		Eucalyptus marginata (Jarrah, Djara)			
558.		Eucalyptus marginata subsp. marginata (Jarrah)			
559.	13548	Eucalyptus marginata subsp. thalassica (Blue-leaved Jarrah)			
560.	5763	Eucalyptus rudis (Flooded Gum, Kulurda)			
561.	5790	Eucalyptus todtiana (Coastal Blackbutt)			
562.	5797	Eucalyptus wandoo (Wandoo, Wondu)			
563.	5817	Hypocalymma angustifolium (White Myrtle, Kudjid)			
564.		Hypocalymma angustifolium subsp. Dandaragan plateau (S. Patrick 702A)			
565.		Hypocalymma angustifolium subsp. Swan Coastal Plain (G.J. Keighery 16777)			
566.		Hypocalymma robustum (Swan River Myrtle)			
567. 568.		Kunzea glabrescens (Spearwood) Kunzea micrantha			
569.		Kunzea micrantha subsp. micrantha			
570.		Kunzea recurva			
571.		Leptospermum erubescens (Roadside Teatree)			
572.		Leptospermum laevigatum (Coast Teatree)	Υ		
573.	5857	Leptospermum spinescens			
574.	5880	Melaleuca bracteosa			
575.	5881	Melaleuca brevifolia			
576.		Melaleuca cuticularis (Saltwater Paperbark)			
577.		Melaleuca huegelii (Chenille Honeymyrtle)			
578.		Melaleuca lateritia (Robin Redbreast Bush)			
579.		Melaleuca osullivanii			
580. 581		Melaleuca preissiana (Moonah) Melaleuca preissiana (Graceful Hopermyrtle)			
581. 582.		Melaleuca radula (Graceful Honeymyrtle) Melaleuca rhaphiophylla (Swamp Paperbark)			
583.		Melaleuca ryeae			
584.		Melaleuca seriata			
585.		Melaleuca teretifolia (Banbar)			
586.	5983	Melaleuca trichophylla			
587.	5984	Melaleuca uncinata (Broom Bush, Kwidjard)			
588.		Melaleuca viminea (Mohan)			
589.		Melaleuca viminea subsp. viminea			
590.		Pericalymma crassipes			
591.		Pericalymma ellipticum (Swamp Teatree)			
592.		Pericalymma ellipticum var. ellipticum Pericalymma ellipticum var. ellipticum			
593.		Pericalymma ellipticum var. floridum Regelia ciliata			
594. 595.		Regelia ciliata Regelia inops			
595. 596.		Scholtzia involucrata (Spiked Scholtzia)			
597.		Taxandria linearifolia			
598.		Verticordia densiflora (Compacted Featherflower)			
599.		Verticordia densiflora var. densiflora			
600.	6077	Verticordia drummondii (Drummond's Featherflower)			
601.	6088	Verticordia huegelii (Variegated Featherflower)			
602.	15434	Verticordia insignis subsp. insignis			
603.	6101	Verticordia nitens (Morrison Featherflower, Kodjeningara)			
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query
604.	6103	Verticordia ovalifolia			7.1.04
605.	6107	Verticordia pennigera			
606.	6110	Verticordia plumosa (Plumed Featherflower)			
607.	12449	Verticordia plumosa var. brachyphylla			
608.	12460	Verticordia serrata var. linearis		P3	
Onagraceae					
Onagraceae 609.	6121	Enilohium hillordiaraanum (Clahraua Millau Harh)			
610.		Epilobium billardiereanum (Glabrous Willow Herb) Oenothera laciniata	V		
010.	10547	Ceriotifeta lacifilata	Υ		
Orchidaceae					
611.	1586	Caladenia discoidea (Dancing Orchid)			
612.	1592	Caladenia flava (Cowslip Orchid)			
613.	15348	Caladenia flava subsp. flava			
614.	15354	Caladenia hirta subsp. hirta			
615.	1596	Caladenia huegelii (Grand Spider Orchid)		Т	
616.	1602	Caladenia longicauda (Common White Spider Orchid)			
617.		Caladenia marginata (White Fairy Orchid)			
618.		Caladenia paludosa			
619.		Caladenia splendens			
620.	18019	Caladenia vulgata			
621.		Cyanicula gemmata			
622.		Cyanicula ixioides subsp. ixioides		P4	
623.		Disa bracteata	Υ		
624.	11049	Diuris corymbosa			
625.	1634	Diuris laxiflora (Bee Orchid)			
626.		Elythranthera emarginata (Pink Enamel Orchid)			
627.	1645	Epiblema grandiflorum (Babe-in-a-cradle)			
628.		Eriochilus dilatatus (White Bunny Orchid)			
629.	1653	Leporella fimbriata (Hare Orchid)			
630.	10954	Microtis media (Tall Mignonette Orchid)			
631.		Microtis media subsp. media			
632.	23500	Paracaleana hortiorum			
633.	1667	Paracaleana nigrita (Flying Duck Orchid)			
634.	1671	Prasophyllum elatum (Tall Leek Orchid)			
635.	1672	Prasophyllum fimbria (Fringed Leek Orchid)			
636.		Pterostylis aff. nana			
637.	1686	Pterostylis barbata (Bird Orchid)			
638.		Pterostylis glebosa			
639.	1693	Pterostylis recurva (Jug Orchid)			
640.	12217	Pterostylis sanguinea			
641.	18658	Pterostylis sp. short sepals (W. Jackson BJ259)			
642.	1698	Pterostylis vittata (Banded Greenhood)			
643.	16367	Pyrorchis nigricans (Red beaks, Elephants ears)			
644.	1701	Thelymitra antennifera (Vanilla Orchid)			
645.	10856	Thelymitra benthamiana (Leopard Orchid)			
646.	1702	Thelymitra campanulata (Shirt Orchid)			
647.	1705	Thelymitra crinita (Blue Lady Orchid)			
648.	1707	Thelymitra flexuosa (Twisted Sun Orchid)			
649.	20731	Thelymitra vulgaris			
Orobanchace	eae				
650.		Bartsia trixago	Υ		
651.		Orobanche minor (Lesser Broomrape)	Y		
652.		Parentucellia latifolia (Common Bartsia)	Y		
653.		Parentucellia viscosa (Sticky Bartsia)	Y		
	,	, , , , , , , , , , , , , , , , , , , ,	•		
Oxalidaceae					
654.		Oxalis perennans			
655.		Oxalis pes-caprae (Soursob)	Υ		
656.	4358	Oxalis purpurea (Largeflower Wood Sorrel)	Υ		
Papaveracea	е				
657.		Fumaria capreolata (Whiteflower Fumitory)	Υ		
Philydraceae					
658.	1173	Philydrella pygmaea (Butterfly Flowers)			
Phrymaceae					
659.	7061	Glossostigma drummondii (Mudmat)			
		g a. a			
Phyllanthace					
660.		Phyllanthus calycinus (False Boronia)			
661.	4691	Poranthera microphylla (Small Poranthera)			
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		Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
662.	42022	Poranthera moorokatta		P2	
Phytolacc					
663.		Phytolacca octandra (Red Ink Plant)	Y		
Pittospora					
664. 665.		Billardiera fraseri (Elegant Pronaya) Billardiera variifolia			
666.		Cheiranthera preissiana			
667.		Marianthus coeruleopunctatus (Blue-spotted Marianthus)			
Plantagina	2020				
668.		Gratiola pubescens			
669.		Misopates orontium (Lesser Snapdragon)	Υ		
Poaceae					
670.	184	Aira caryophyllea (Silvery Hairgrass)	Υ		
671.		Aira cupaniana (Silvery Hairgrass)	Υ		
672.	187	Aira praecox (Early Hairgrass)	Υ		
673.		Amphipogon laguroides subsp. laguroides			
674.		Amphipogon turbinatus			
675. 676.		Aristida contorta (Bunched Kerosene Grass) Austrostipa campylachne			
677.		Austrostipa compressa			
678.		Austrostipa elegantissima			
679.		Austrostipa flavescens			
680.	17241	Austrostipa hemipogon			
681.		Austrostipa macalpinei			
682.		Austrostipa tenuifolia	.,		
683. 684.		Avena fatua (Wild Oat)	Y		
685.		Avena sativa (Common Oat) Brachypodium distachyon (False Brome)	Y		
686.		Briza maxima (Blowfly Grass)	Y		
687.		Briza minor (Shivery Grass)	Υ		
688.	249	Bromus diandrus (Great Brome)	Υ		
689.	250	Bromus hordeaceus (Soft Brome)	Υ		
690.		Bromus rubens (Red Brome)	Y		
691.		Cenchrus ciliaris (Buffel Grass)	Y		
692. 693.		Cenchrus macrourus (African Feather Grass) Cenchrus setaceus (Fountain Grass)	Y		
694.		Chloris gayana (Rhodes Grass)	Y		
695.		Chloris virgata (Feathertop Rhodes Grass)	Y		
696.	283	Cynodon dactylon (Couch)	Υ		
697.	290	Dactyloctenium radulans (Button Grass)			
698.		Digitaria aequiglumis	Υ		
699.		Digitaria ciliaris (Summer Grass)	Y		
700. 701.		Digitaria sanguinalis (Crab Grass) Ehrharta brevifolia (Annual Veldt Grass)	Y		
701.		Ehrharta calycina (Perennial Veldt Grass)	Y		
703.		Ehrharta longiflora (Annual Veldt Grass)	Y		
704.	353	Eleusine indica (Crowsfoot Grass)	Υ		
705.		Eragrostis cilianensis (Stinkgrass)	Υ		
706.		Eragrostis curvula (African Lovegrass)	Υ		
707.		Eragrostis dielsii (Mallee Lovegrass)			
708. 709.		Hemarthria uncinata var. uncinata Holcus lanatus (Yorkshire Fog)	Y		
710.		Holcus setiger (Annual Fog)	Y		
711.		Lachnagrostis filiformis	·		
712.	19955	Lachnagrostis plebeia			
713.	468	Lamarckia aurea (Goldentop)	Υ		
714.		Lolium rigidum (Wimmera Ryegrass)	Y		
715.		Microlaena stipoides (Weeping Grass)			
716.		Neurachne alopecuroidea (Foxtail Mulga Grass) Parapholis incurva (Coast Barbarass)	Υ		
717. 718.		Parapholis incurva (Coast Barbgrass) Pentameris airoides subsp. airoides	Y		
710.		Pentameris pallida	Y		
720.		Phalaris minor (Lesser Canary Grass)	Y		
721.		Poa annua (Winter Grass)	Υ		
722.	573	Poa drummondiana (Knotted Poa)			
723.		Poa poiformis (Coastal Poa)			
724.		Polypogon monspeliensis (Annual Beardgrass)	Y		
725.	583	Polypogon tenellus			
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726. 727. 728. 729. 730. 731. Polygalaceae 732. 733. 734. 735. Polygonaceae 736. 737. 738. 739. 740.	40426 40427 635 722 724 4550 4554 4561 4564	Rytidosperma caespitosum Rytidosperma occidentale Rytidosperma setaceum Sporobolus virginicus (Marine Couch) Vulpia bromoides (Squirrel Tail Fescue) Vulpia myuros (Rat's Tail Fescue) Comesperma calymega (Blue-spike Milkwort) Comesperma flavum	Y Y		
728. 729. 730. 731. Polygalaceae 732. 733. 734. 735. Polygonaceae 736. 737. 738. 739.	40427 635 722 724 4550 4554 4561 4564	Rytidosperma setaceum Sporobolus virginicus (Marine Couch) Vulpia bromoides (Squirrel Tail Fescue) Vulpia myuros (Rat's Tail Fescue) Comesperma calymega (Blue-spike Milkwort) Comesperma flavum			
729. 730. 731. Polygalaceae 732. 733. 734. 735. Polygonaceae 736. 737. 738. 739.	635 722 724 4550 4554 4561 4564	Sporobolus virginicus (Marine Couch) Vulpia bromoides (Squirrel Tail Fescue) Vulpia myuros (Rat's Tail Fescue) Comesperma calymega (Blue-spike Milkwort) Comesperma flavum			
730. 731. Polygalaceae 732. 733. 734. 735. Polygonaceae 736. 737. 738. 739.	722 724 4550 4554 4561 4564	Vulpia bromoides (Squirrel Tail Fescue) Vulpia myuros (Rat's Tail Fescue) Comesperma calymega (Blue-spike Milkwort) Comesperma flavum			
731. Polygalaceae 732. 733. 734. 735. Polygonaceae 736. 737. 738. 739.	724 4550 4554 4561 4564 2412	Vulpia myuros (Rat's Tail Fescue) Comesperma calymega (Blue-spike Milkwort) Comesperma flavum			
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732. 733. 734. 735. Polygonaceae 736. 737. 738. 739.	4554 4561 4564 2412	Comesperma flavum			
733. 734. 735. Polygonaceae 736. 737. 738. 739.	4554 4561 4564 2412	Comesperma flavum			
734. 735. Polygonaceae 736. 737. 738. 739.	4561 4564 2412				
735. Polygonaceae 736. 737. 738. 739.	4564 2412				
Polygonaceae 736. 737. 738. 739.	2412	Comesperma scoparium (Broom Milkwort)			
736. 737. 738. 739.	2412	Comesperma virgatum (Milkwort)			
736. 737. 738. 739.	2412				
737. 738. 739.		Muehlenbeckia adpressa (Climbing Lignum)			
738. 739.	13911	Persicaria decipiens			
739.		Rumex conglomeratus (Clustered Dock)	Y		
		Rumex crispus (Curled Dock)	Y		
740.		Rumex hypogaeus	Y		
	TUTUT	Numex Hypogaeus	1		
Portulacaceae					
741.	2884	Portulaca oleracea (Purslane, Wakati)			
Primulaceae					
742.	26275	Lyaimachia aryanaia (Pimparnal)	V		
		Lysimachia arvensis (Pimpernel)	Y		
743.	0403	Samolus junceus			
Proteaceae					
744.	1775	Adenanthos cygnorum (Common Woollybush)			
745.	11336	Adenanthos cygnorum subsp. chamaephyton		P3	
746.	11837	Adenanthos cygnorum subsp. cygnorum (Common Woollybush)			
747.		Adenanthos drummondii			
748.		Adenanthos obovatus (Basket Flower)			
749.		Banksia armata var. armata			
750.		Banksia attenuata (Slender Banksia, Piara)			
751.		Banksia bipinnatifida subsp. multifida			
752.		Banksia fraseri var. fraseri			
753.		Banksia ilicifolia (Holly-leaved Banksia)			
754.		Banksia menziesii (Firewood Banksia)			
755.		Banksia micrantha			
756.		Banksia telmatiaea (Swamp Fox Banksia)			
757.		Conospermum acerosum subsp. acerosum			
758.		Conospermum canaliculatum			
759.		Conospermum canaliculatum subsp. canaliculatum			
760.		Conospermum huegelii (Slender Smokebush)			
761.		Conospermum polycephalum			
762.		Conospermum stoechadis (Common Smokebush)			
763.		Conospermum stoechadis subsp. sclerophyllum			
764.		Conospermum stoechadis subsp. stoechadis (Common Smokebush)			
765.		Conospermum triplinervium (Tree Smokebush)			
766.		Grevillea althoferorum			
767.		Grevillea althoferorum subsp. fragilis		Т	
768.	19628	Grevillea bipinnatifida subsp. bipinnatifida			
769.	1984	Grevillea curviloba			
770.	14408	Grevillea curviloba subsp. curviloba		Т	
771.	14409	Grevillea curviloba subsp. incurva		Т	
772.	8836	Grevillea obtusifolia (Obtuse Leaved Grevillea)			
773.	2066	Grevillea pilulifera (Woolly-flowered Grevillea)			
774.	2080	Grevillea quercifolia (Oak-leaf Grevillea)			
775.	14421	Grevillea synapheae subsp. synapheae			
776.	2149	Hakea cristata (Snail Hakea)			
777.		Hakea erinacea (Hedge-hog Hakea)			
778.		Hakea incrassata (Marble Hakea)			
779.		Hakea lissocarpha (Honey Bush)			
780.		Hakea prostrata (Harsh Hakea)			
781.		Hakea ruscifolia (Candle Hakea)			
781.		Hakea sp. Walyunga (B. Keighery 2599)			
783.					
		Hakea sulcata (Furrowed Hakea)			
784.		Hakea undulata (Wavy-leaved Hakea)			
705		Hakea varia (Variable-leaved Hakea)			
785.		reapparan gener			
785. 786. 787.		Isopogon asper Isopogon dubius (Pincushion Coneflower)			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
789.	2258	Persoonia comata			
790.	2271	Persoonia rudis		P3	
791.	2273	Persoonia saccata (Snottygobble)			
792.	2284	Petrophile biloba (Granite Petrophile)			
793.	20391	Petrophile juncifolia			
794.	2299	Petrophile linearis (Pixie Mops)			
795.	2301	Petrophile macrostachya			
796.	2308	Petrophile seminuda			
797.	2310	Petrophile shuttleworthiana			
798.	2312	Petrophile striata			
799.	12856	Stirlingia abrotanoides			
800.	2316	Stirlingia latifolia (Blueboy)			
801.	2321	Synaphea acutiloba (Granite Synaphea)			
802.	2323	Synaphea gracillima			
803.	16867	Synaphea grandis		P4	
804.	2329	Synaphea spinulosa			
805.		Synaphea spinulosa subsp. spinulosa			
Ranunculace					
806.		Ranunculus colonorum (Common Buttercup)			
807.		Ranunculus muricatus (Sharp Buttercup)	Υ		
808.	11927	Ranunculus sessiliflorus var. sessiliflorus			
Restionacea	e				
809.		Alexgeorgea nitens			
810.		Chaetanthus aristatus			
811.		Chordifex microcodon			
812.		Chordifex sp. Ellenbrook (M. Trudgen MET 20790)			Υ
813.		Cytogonidium leptocarpoides			·
814.		Desmocladus flexuosus			
815.		Desmocladus lateriflorus			
816.		Dielsia stenostachya			
817.		Hypolaena exsulca			
818.		Lepidobolus preissianus			
819.					
		Lepidobolus preissianus subsp. preissianus			
820.		Leptocarpus canus (Hoary Twine-rush)			
821.		Leptocarpus coangustatus			
822.		Leptocarpus decipiens			
823.		Leptocarpus scariosus			
824.		Leptocarpus tephrinus			
825.	1088	Lepyrodia macra (Large Scale Rush)			
Rhamnaceae	9				
826.	13470	Cryptandra arbutiflora var. arbutiflora			
827.	9076	Cryptandra myriantha			
828.	4839	Trymalium angustifolium			
829.	13479	Trymalium ledifolium var. rosmarinifolium			
830.	33418	Trymalium odoratissimum subsp. odoratissimum			
-					
Rubiaceae					
831.		Galium divaricatum	Υ		
832.		Galium murale (Small Goosegrass)	Υ		
833.	18255	Opercularia vaginata (Dog Weed)			
Rutaceae					
834.	17665	Boronia purdieana subsp. purdieana			
835.		Boronia ramosa			
836.		Boronia ramosa subsp. anethifolia			
837.		Philotheca spicata (Pepper and Salt)			
	.0020				
Santalaceae					
838.	2344	Leptomeria empetriformis			
839.	2350	Leptomeria pauciflora (Sparse-flowered Currant Bush)			
Sapindaceae	•				
840.		Diplopeltis huegelii			
841.		Diplopeltis huegelii subsp. lehmannii			
		Espapada Huagam adaap, totimailiii			
Schizaeacea 842.		Schizaea fistulosa (Narrow Comb Fern)			
Scrophularia	ceae				
843.		Dischisma capitatum (Woolly-headed Dischisma)	Υ		
844.		Eremophila glabra subsp. albicans			
845.		Myoporum caprarioides (Slender Myoporum)			
				Departmen Parks and	of pool 100
		NatureMap is a collaborative project of the Department of Parks and Wildlife and the Wester	rn Australian Muse	um. Parks and	Wildlife







Name ID Species Name

Conservation Code ¹Endemic To Query Area Selaginellaceae 6 Selaginella gracillima (Tiny Clubmoss) Solanaceae 847. 6949 Anthocercis littorea (Yellow Tailflower) 6974 Nicotiana glauca (Tree Tobacco) 848 Υ 849. 7013 Solanum hoplopetalum (Thorny Solanum) 850 7022 Solanum nigrum (Black Berry Nightshade) Stylidiaceae 7672 Levenhookia octomaculata (Eight-spotted Stylewort) 851. 7676 Levenhookia pusilla (Midget Stylewort) 7677 Levenhookia stipitata (Common Stylewort) 853 18564 Stylidium aceratum РЗ 854 855. 7679 Stylidium adpressum (Trigger-on-stilts) 7681 Stylidium affine (Queen Triggerplant) 856 857. 12846 Stylidium albolilacinum 7684 Stylidium amoenum (Lovely Triggerplant) 858 30278 Stylidium androsaceum 859 25831 Stylidium araeophyllum (Stilt Walker) 860 861. 48457 Stylidium bindoon 862 7693 Stylidium brunonianum (Pink Fountain Triggerplant) 7694 Stylidium bulbiferum (Circus Triggerplant) 863. 864. 7696 Stylidium calcaratum (Book Triggerplant) 865. 7699 Stylidium carnosum (Fleshy-leaved Triggerplant) 7709 Stylidium crossocephalum (Posy Triggerplant) 866 7710 Stylidium cygnorum 867. 7713 Stylidium dichotomum (Pins-and-needles) 868. 869 7716 Stylidium diuroides (Donkey Triggerplant) 11808 Stylidium diuroides subsp. diuroides 870 871. 7717 Stylidium divaricatum (Daddy-long-legs) 7719 Stylidium ecorne (Foot Triggerplant) 872 873. 7734 Stylidium guttatum (Dotted Triggerplant) 7742 Stylidium inundatum (Hundreds and Thousands) 874 7756 Stylidium longitubum (Jumping Jacks) 875. P4 876 25800 Stylidium paludicola РЗ 877. 7773 Stylidium petiolare (Horn Triggerplant) 878 7774 Stylidium piliferum (Common Butterfly Triggerplant) 25837 Stylidium purpureum (Purple Fountain Triggerplant) 879. 880 33106 Stylidium recurvum 7785 Stylidium repens (Matted Triggerplant) 881. 20521 Stylidium rigidulum 882 883 25806 Stylidium scariosum 884 7798 Stylidium schoenoides (Cow Kicks) 885 7801 Stylidium squamellosum (Maize Trigger Plant) 886. 45594 Stylidium tenue subsp. majusculum (Showy Fountain Triggerplant) 887. 20603 Stylidium trudgenii 888. 7806 Stylidium utricularioides (Pink Fan Triggerplant) Surianaceae 889. 3181 Stylobasium australe Thelypteridaceae 890. 54 Cyclosorus interruptus Thymelaeaceae 891. 5244 Pimelea floribunda 892 11404 Pimelea imbricata var. maior 893. 11402 Pimelea imbricata var. piligera 894. 12041 Pimelea suaveolens subsp. suaveolens **Typhaceae** 895. 99 Typha orientalis (Bulrush, Cumbungi) Violaceae 896 5216 Hybanthus calycinus (Wild Violet) Xanthorrhoeaceae 897 1280 Chamaescilla corymbosa (Blue Squill) 898. 11299 Chamaescilla corymbosa var. corymbosa 899 19338 Chamaescilla gibsonii 900. 8788 Chamaescilla versicolor 901. 1252 Xanthorrhoea drummondii 1253 Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi) 902 NatureMap is a collaborative project of the Department of Parks and Wildlife and the Western Australian Museum.

Naturalised







Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised

903. 1256 Xanthorrhoea preissii (Grass tree, Palga)

Zamiaceae

18119 Macrozamia fraseri 904.

Zygophyllaceae

905. 4383 Tribulus terrestris (Caltrop)

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 2
4 - Priority 4
5 - Priority 5

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







NatureMap Species Report Fauna 5 km

Created By Guest user on 18/06/2018

Kingdom Animalia

Current Names Only Yes

Core Datasets Only Yes

Method 'By Line

Vertices 31° 36′ 55″ S,115° 59′ 19″ E 31° 38′ 10″ S,115° 59′ 48″ E 31° 43′ 15″ S,116° 00′ 03″ E 31° 43′

Group By 49" S,116° 00' 04" E

Species Group

Species Group	Species	Records
Amphibian Bird Fish Invertebrate Mammal Reptile	13 108 4 235 13 52	221 1003 5 886 130 624
TOTAL	425	2869

Name ID Species Name

Naturalised Conservation Code ¹Endemic To Query Area

Amphibian	
1.	25398 Crinia georgiana (Quacking Frog)
2.	25399 Crinia glauerti (Clicking Frog)
3.	25400 Crinia insignifera (Squelching Froglet)
4.	25408 Heleioporus albopunctatus (Western Spotted Frog)
5.	25409 Heleioporus barycragus (Hooting Frog)
6.	25410 Heleioporus eyrei (Moaning Frog)
7.	25411 Heleioporus inornatus (Whooping Frog)
8.	25415 Limnodynastes dorsalis (Western Banjo Frog)
9.	25378 Litoria adelaidensis (Slender Tree Frog)
10.	25388 Litoria moorei (Motorbike Frog)
11.	25420 Myobatrachus gouldii (Turtle Frog)
12.	25426 Neobatrachus pelobatoides (Humming Frog)
13.	25433 Pseudophryne guentheri (Crawling Toadlet)
Bird	
	OFFIC Appethograms information (Crims shoulded Universated)
14.	24559 Acanthagenys rufogularis (Spiny-cheeked Honeyeater)
15.	24260 Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill)
16.	24261 Acanthiza chrysorrhoa (Yellow-rumped Thornbill)
17.	24262 Acanthiza inornata (Western Thornbill)
18.	24560 Acanthorhynchus superciliosus (Western Spinebill)
19.	25535 Accipiter cirrocephalus (Collared Sparrowhawk)
20.	25536 Accipiter fasciatus (Brown Goshawk)
21.	24312 Anas gracilis (Grey Teal)
22.	24313 Anas platyrhynchos (Mallard)
23.	24316 Anas superciliosa (Pacific Black Duck)
24.	24561 Anthochaera carunculata (Red Wattlebird)
25.	24562 Anthochaera lunulata (Western Little Wattlebird)
26.	25670 Anthus australia (Australian Pipit)
27.	24599 Anthus australis subsp. australis (Australian Pipit)
28.	24285 Aquila audax (Wedge-tailed Eagle)
29.	24340 Ardea novaehollandiae (White-faced Heron)
30.	25566 Artamus cinereus (Black-faced Woodswallow)
31.	24353 Artamus cyanopterus (Dusky Woodswallow)
32.	Barnardius zonarius
33.	24345 Botaurus poiciloptilus (Australasian Bittern)
34.	25713 Cacatua galerita (Sulphur-crested Cockatoo)
35.	24721 Cacatua galerita subsp. galerita (Sulphur-crested Cockatoo)
36.	25714 Cacatua pastinator (Western Long-billed Corella)
37.	25715 Cacatua roseicapilla (Galah)
38.	25716 Cacatua sanguinea (Little Corella)
39.	24729 Cacatua tenuirostris (Eastern Long-billed Corella)

NatureMap is a collaborative project of the Department of Parks and Wildlife and the Western Australian Museum.







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
			Υ		
40.	25598	Cacomantis flabelliformis (Fan-tailed Cuckoo)			
41.		Cacomantis pallidus (Pallid Cuckoo)			
42.		Callyptorhynchus banksii subsp. naso (Forest Red-tailed Black Cockatoo)		Т	
43.	24/34	Calyptorhynchus latirostris (Carnaby's Cockatoo, White-tailed Short-billed Black		Т	
44.	2/221	Cockatoo) Chenonetta jubata (Australian Wood Duck, Wood Duck)			
45.		Chrysococcyx basalis (Horsfield's Bronze Cuckoo)			
46.		Chrysococcyx lucidus subsp. plagosus (Shining Bronze Cuckoo)			
47.		Colluricincla harmonica (Grey Shrike-thrush)			
48.		Coracina novaehollandiae (Black-faced Cuckoo-shrike)			
49.	25592	Corvus coronoides (Australian Raven)			
50.	24417	Corvus coronoides subsp. perplexus (Australian Raven)			
51.	24420	Cracticus nigrogularis (Pied Butcherbird)			
52.	25595	Cracticus tibicen (Australian Magpie)			
53.		Cracticus torquatus (Grey Butcherbird)			
54.		Cygnus atratus (Black Swan)			
55.		Dacelo novaeguineae (Laughing Kookaburra)	Υ		
56.		Daphoenositta chrysoptera (Varied Sittella)			
57. 58.	24470	Dromaius novaehollandiae (Emu)			
59.	2/200	Egretta novaehollandiae Elanus caeruleus subsp. axillaris (Australian Black-shouldered Kite)			
60.		Elseyornis melanops (Black-fronted Dotterel)			
61.		Eolophus roseicapillus			
62.	24567	Epthianura albifrons (White-fronted Chat)			
63.		Falco cenchroides (Australian Kestrel, Nankeen Kestrel)			
64.	24472	Falco cenchroides subsp. cenchroides (Australian Kestrel, Nankeen Kestrel)			
65.	25623	Falco longipennis (Australian Hobby)			
66.	25624	Falco peregrinus (Peregrine Falcon)		S	
67.	25727	Fulica atra (Eurasian Coot)			
68.		Fulica atra subsp. australis (Eurasian Coot)			
69.		Gallinula tenebrosa subsp. tenebrosa (Dusky Moorhen)			
70.		Gavicalis virescens (Singing Honeyeater)			
71.		Gerygone fusca (Western Gerygone)			
72. 73.		Glyciphila melanops (Tawny-crowned Honeyeater)			
73. 74.		Grallina cyanoleuca (Magpie-lark) Hieraaetus morphnoides (Little Eagle)			
7 - 7.		Hirundo neoxena (Welcome Swallow)			
76.		Larus novaehollandiae subsp. novaehollandiae (Silver Gull)			
77.		Lichmera indistincta (Brown Honeyeater)			
78.		Lophoictinia isura			
79.	24326	Malacorhynchus membranaceus (Pink-eared Duck)			
80.	24551	Malurus pulcherrimus (Blue-breasted Fairy-wren)			
81.	25654	Malurus splendens (Splendid Fairy-wren)			
82.		Manorina flavigula (Yellow-throated Miner)			
83.		Melithreptus brevirostris (Brown-headed Honeyeater)			
84.		Merops ornatus (Rainbow Bee-eater)			
85.		Myiagra inquieta (Restless Flycatcher)			
86. 87.		Ocyphaps Iophotes (Crested Pigeon) Pachycephala rufiventris (Rufous Whistler)			
88.		Pardalotus striatus (Striated Pardalote)			
89.		Petrochelidon nigricans (Tree Martin)			
90.		Petroica boodang (Scarlet Robin)			
91.		Petroica goodenovii (Red-capped Robin)			
92.		Phalacrocorax melanoleucos (Little Pied Cormorant)			
93.	24666	Phalacrocorax melanoleucos subsp. melanoleucos (Little Pied Cormorant)			
94.		Phalacrocorax sp.			
95.		Phalacrocorax sulcirostris (Little Black Cormorant)			
96.		Phalacrocorax varius (Pied Cormorant)			
97.		Phaps chalcoptera (Common Bronzewing)			
98.		Phylidonyris navohollandiae (New Halland Hanayastar)			
99. 100		Phylidonyris novaehollandiae (New Holland Honeyeater) Platalea flavines (Vellow-hilled Spoonhill)			
100. 101.		Platalea flavipes (Yellow-billed Spoonbill) Platycercus spurius (Red-capped Parrot)			
101.		Platycercus spurius (Rustralian Ringneck, Ring-necked Parrot)			
103.		Platycercus zonarius subsp. semitorquatus (Twenty-eight Parrot)			
104.		Platycercus zonarius subsp. zonarius (Port Lincoln Parrot)			
105.		Polytelis anthopeplus subsp. westralis (Regent Parrot)			
106.		Porphyrio porphyrio (Purple Swamphen)			
107.		Purpureicephalus spurius			
				CONTROL OF THE PARTY OF THE PAR	******







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
108.	48096	Rhipidura albiscapa (Grey Fantail)			
109.	25614	Rhipidura leucophrys (Willie Wagtail)			
110.	25534	Sericornis frontalis (White-browed Scrubwren)			
111.	30948	Smicrornis brevirostris (Weebill)			
112.	24645	Stagonopleura oculata (Red-eared Firetail)			
113.		Strepera versicolor (Grey Currawong)			
114.		Streptopelia senegalensis (Laughing Turtle-Dove)	Υ		
115.		Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)			
116.		Tachybaptus novaehollandiae subsp. novaehollandiae (Australasian Grebe, Black-			
		throated Grebe)			
117.		Tadorna tadornoides (Australian Shelduck, Mountain Duck)			
118.		Threskiornis spinicollis (Straw-necked Ibis)			
119.	25549	Todiramphus sanctus (Sacred Kingfisher)			
120.	24852	Tyto alba subsp. delicatula (Barn Owl)			
121.	25765	Zosterops lateralis (Grey-breasted White-eye, Silvereye)			
Fish		2.4			
122.		Bostockia porosa			
123.		Edelia vittata			
124.	34028	Galaxias occidentalis (Western Minnow)			
125.		Gambusia sp.			
Invertebrate	•				
126.		Ablabesmyia notabilis			
127.		Acariformes sp.			
128.		Acarina sp.			
129.		Acercella falcipes			
130.		Acritoptila globosa			
131.		Aedes alboannulotus			
132.		Agraptocorixa sp.			
133.		Alboa worooa			
134.		Allodessus bistrigatus			
135.		Allothereua maculata			
136.		Alona sp.			
137.		Alonella sp.			
138.		Amblyomma triguttatum			
139.		Amphisopodidae sp.			
140.		Aname mainae			
141.		Ancylidae sp.			
142.		Anisops hyperion			
143.		Anisops occipitalis			
144.		Anisops sp.			
145.		Anisops stali			
146.		Anisops thienemanni			
147.		Anopheles (Cellia) sp.			
148.		Anopheles annulipes s.l.			
149.		Antiporus sp.			
150.		Araneus cyphoxis			
151.		Archepleuroxus baylyi			
152.		Arrenurus sp.			
153.		Austracantha minax			
154.		Australocyclops australis			
155.		Austrochiltonia subtenuis			
156.		Austrolestes analis			
157.		Austrolestes annulosus			
158.		Austrolestes aridus			
159.		Austrolestes io			
160.		Badumna insignis			
161.		Baetidae sp.			
162.		Bennelongia australis			
163.		Bennelongia cygnus			
164.		Berosus pulchellus			
165.		Berosus sp.			
166.		Bidessini sp.			
167.		Boeckella bispinosa			
168.		Boeckella robusta			
169.		Branchinella sp.			
170.					
		Caeridae sp.			
171.		Calamoecia attenuata			
172.		Calamoecia tasmanica subattenuata			
173.		Canthocamptus australicus			
				0018390	







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
174. 175.		Carabidae sp. Ceinidae sp.			
175.		Ceratopogonidae sp.			
177.		Cercophonius sulcatus			
178.		Ceriodaphnia sp.			
179.	33939	Cherax cainii (Marron)			
180.		Cherax quinquecarinatus			
181.		Cherax sp.			
182. 183.		Chironominae sp. Chironomus aff. alternans (V24) (CB)			
184.		Chironomus tepperi			
185.		Chostonectes sp.			Υ
186.		Chrysomelidae sp.			
187.		Chydoridae sp.			
188.		Chydorus sp.			
189. 190.		Cladopelma curtivalva			
190.		Copelatus sp. Corduliidae sp.			
192.		Corixidae sp.			
193.		Corynoneura australiensis			Υ
194.		Corynoneura scutellata			
195.		Culex (Culex) annulirostris			
196. 197.		Culex (Culex) australicus Culex globocoxitus			
197.		Culex sp.			
199.		Culex stricklandi			Υ
200.		Culicidae sp.			
201.		Curculionidae sp.			
202.		Cybister sp.			
203. 204.		Cypretta aff. globosa			
204.		Cypretta baylyi Cypretta sp.			
206.		Cypretta sp. 272			Υ
207.		Cypricercus n sp. 314 (dorsal hump)			Υ
208.		Cypricercus sp. 327 (TWS)			Υ
209.		Cyprinotus cingalensis (ex edwardi)			
210. 211.		Cyzicus sp. Daphnia carinata			
212.		Diaphanosoma sp.			
213.		Dicrotendipes conjunctus			
214.		Dingosa serrata			
215.		Diptera sp.			
216.		Dugesiidae sp.			V
217. 218.		Dunhevedia aff crassa Dytiscidae sp.			Υ
219.		Echinisca sp.			
220.		Empididae sp.			
221.		Enochrus elongatulus			
222.		Enochrus sp.			
223.		Eretes australis			
224. 225.		Eucypris virens Eulimnadia sp.			
226.		Exocelina ater			
227.		Exocelina ferrugineus			
228.		Eylais sp.			
229.		Gastropoda marine sp. RCM1			
230. 231.		Graptoleberis sp. Gripopterygidae sp.			Υ
231.		Gripopierygidae sp. Gyraulus sp.			
233.		Gyrinidae sp.			
234.		Haliplus sp.			
235.		Haliplus testudo			
236.		Hebridae sp.			
237.		Hellyethira malleoforma			
238. 239.		Hellyethira simplex Hellyethira sp.			
240.		Hemianax papuensis			
241.		Hemiboeckella andersonae			Υ
242.		Hemicordulia tau			
243.		Hemicorduliidae sp.			
				Description of the second	******************







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
244.		Heterocypris incongruens			
245. 246.		Hirudinea sp. Holconia westralia			
247.		Hydaticus sp.			
248.		Hyderodes crassus			
249.		Hydridae sp.			
250.		Hydrochus sp.			
251.		Hydrophilidae sp.			
252.		Hydroptilidae sp.			
253. 254.		Hyphydrus elegans			
255.		Hyphydrus sp. Idiommata blackwalli			
256.		Ilyodromus sp. 255 (south-west, CB)			
257.		Laccophilus sp.			
258.		Lacrimicypris kumbar			
259.		Lancetes sp.			
260.		Latonopsis sp.			
261.		Latrodectus hasseltii			
262. 263.		Leioproctus contrarius (a short-tongued bee) Leioproctus douglasiellus (a short-tongued bee)		P3 T	
264.	33903	Lepidoptera sp.		ı	
265.		Leptoceridae sp.			
266.		Limbodessus inornatus			
267.		Limbodessus sp.			
268.		Limnesia sp.			
269.		Limnichidae sp.			
270. 271.		Limnocythere dorsosicula Limnocythere mowbrayensis			
272.		Limnocythere sp.			
273.		Limnophyes sp.			
274.		Limnoxenus zelandicus			
275.		Lymnaeidae sp.			
276.		Lynceus sp.			
277.		Macrothrix sp.			
278. 279.		Macrothrix sp. A (CB) Macrothrix sp. b (of RJS) (SAP)			
280.		Megaporus howitti			
281.		Megaporus solidus			
282.		Megaporus sp.			
283.		Mesamphisopodidae sp.			
284.		Mesocyclops brooksi			
285. 286.		Mesocyclops sp. Microcyclops sp. EB1			Υ
287.		Microcyclops sp. EB2			Y
288.		Micronecta robusta			·
289.		Micronecta sp.			
290.		Missulena granulosa			
291.		Mixocyclops sp. LG1			Υ
292.		Mointage			V
293. 294.		Moinidae sp. Necterosoma regulare			Υ
295.		Neothrix armata			
296.		Nephila edulis			
297.		Newnhamia fenestrata			
298.		Notonectidae sp.			
299.		Oecobius navus			
300. 301.		Oligochaeta sp. Oniscidae sp.			
302.		Onychohydrus atratus			
303.		Onychohydrus scutellaris			
304.		Onychohydrus sp.			
305.		Oribatida sp.			
306.		Orthocladiinae sp.			
307.		Palaemonidae sp.			
308. 309.		Paracymus pygmaeus Paralimnocythere sp. 275 (south-west, CB)			
310.		Paralimnophyes pullulus (V42)			
311.		Paramerina levidensis			
312.		Paramphisopus palustris			
313.		Parastacidae sp.			
				December 1	*********







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
314.		Paratanytarsus parthenogeneticus			Y
315.		Paroster ellenbrookensis			
316.		Paroster niger			
317.		Paroster sp.			
318.		Pedidromus velox			Υ
319.		Pescecyclops sp. (EB1 sp. 250)			Υ
320.		Physa sp.			Υ
321.		Physastra sp.			
322.		Physidae sp.			
323.		Piona murleyi			
324.		Piona sp.			
325.		Planorbidae sp.			
326.		Platynectes sp.			
327.		Pleuroxus sp.			
328.		Procladius villosimanus			
329.		Promochlonyx australiensis			
330.		Ptilodactylidae sp.			
331.		Rhantus sp.			
332.		Rhantus suturalis			
333.		Richardsonianidae sp.			
334.		Sarscypridopsis aculeata			
335.		Scapholeberis kingi			
336.		Scapholeberis sp.			
337.		Sciomyzidae sp.			
338.		Scirtidae sp.			
339.		Simocephalus sp.			
340.		Simuliidae sp.			
341.		Spencerhydrus pulchellus			
342.		Staphylinidae sp.			
343.		Sternopriscus browni			
344.		Sternopriscus marginatus			
345.		Sternopriscus minimus Sternopriscus on			
346.		Sternopriscus sp.			Υ
347. 348.		Strandesia sp. 323 (TWS)			Y
		Stratiomyidae sp.			Υ
349. 350.		Succinea sp.			Ĭ
350. 351.		Tabanidae sp. Tanypodinae sp.			
351.		Tanytarsus fuscithorax/semibarbitarsus			
353.		Tanytarsus sp.			
353. 354.		Tasmanicosa leuckartii			
355.		Tipulidae sp.			
356.		Triplectides australis			
357.		Turbellaria sp.			
358.		Urodacus novaehollandiae			
359.	2/11/2	Westralunio carteri (Carter's Freshwater Mussel)		т	
360.	34113	Xanthagrion erythroneurum		Т	
300.		Adminagnon eryunoneurum			
Mammal					
361.	24251	Bos taurus (European Cattle)	Υ		
362.	24092	Dasyurus geoffroii (Chuditch, Western Quoll)		Т	
363.	48588	Isoodon fusciventer (Quenda, southwestern brown bandicoot)		P4	
364.	24132	Macropus fuliginosus (Western Grey Kangaroo)			
365.	24168	Macrotis lagotis (Bilby, Dalgyte, Ninu)		Т	
366.	24223	Mus musculus (House Mouse)	Υ		
367.	48022	Notamacropus irma (Western Brush Wallaby)		P4	
368.	48027	Nyctophilus geoffroyi subsp. geoffroyi (Lesser Long-eared Bat)			
369.	24195	Nyctophilus gouldi (Gould's Long-eared Bat)			
370.	24245	Rattus rattus (Black Rat)	Υ		
371.	24167	Tarsipes rostratus (Honey Possum, Noolbenger)			
372.	25521	Trichosurus vulpecula (Common Brushtail Possum)			
373.	24206	Vespadelus regulus (Southern Forest Bat)			
Reptile					
374.	42368	Acritoscincus trilineatus (Western Three-lined Skink)			
375.		Anilios australis			
376.		Aprasia pulchella (Granite Worm-lizard)			
377.		Aprasia repens (Sand-plain Worm-lizard)			
378.		Brachyurophis fasciolatus subsp. fasciolatus (Narrow-banded Shovel-nosed Snake)			
379.		Brachyurophis semifasciatus (Southern Shovel-nosed Snake)			
380.		Chelodina colliei (South-western Snake-necked Turtle)			
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
381.	24980	Christinus marmoratus (Marbled Gecko)			
382.	24918	Crenadactylus ocellatus subsp. ocellatus (Clawless Gecko)			
383.	30893	Cryptoblepharus buchananii			
384.	25020	Cryptoblepharus plagiocephalus			
385.	30899	Ctenophorus adelaidensis (Southern Heath Dragon, Western Heath Dragon)			
386.	25027	Ctenotus australis			
387.	25039	Ctenotus fallens			
388.	25047	Ctenotus impar			
389.	25766	Delma fraseri (Fraser's Legless Lizard)			
390.	24929	Diplodactylus granariensis subsp. granariensis			
391.	25251	Echiopsis curta (Bardick)			
392.	25100	Egernia napoleonis			
393.	25250	Elapognathus coronatus (Crowned Snake)			
394.	25475	Hemiergis peronii			
395.	25119	Hemiergis quadrilineata			
396.	25128	Lerista christinae			
397.	25133	Lerista elegans			
398.	25148	Lerista lineopunctulata			
399.	25165	Lerista praepedita			
400.	25005	Lialis burtonis			
401.	25184	Menetia greyii			
402.	25191	Morethia lineoocellata			
403.	25192	Morethia obscura			
404.	25248	Neelaps bimaculatus (Black-naped Snake)			
405.	25249	Neelaps calonotos (Black-striped Snake, black-striped burrowing snake)		P3	
406.	25252	Notechis scutatus (Tiger Snake)			
407.	25253	Parasuta gouldii			
408.	25509	Pletholax gracilis (Keeled Legless Lizard)			
409.	25007	Pletholax gracilis subsp. gracilis (Keeled Legless Lizard)			
410.	25510	Pogona minor (Dwarf Bearded Dragon)			
411.	24907	Pogona minor subsp. minor (Dwarf Bearded Dragon)			
412.	25261	Pseudechis australis (Mulga Snake)			
413.	25345	Pseudemydura umbrina (Western Swamp Tortoise, Western Swamp Turtle)		T	
414.	25511	Pseudonaja affinis (Dugite)			
415.	25259	Pseudonaja affinis subsp. affinis (Dugite)			
416.	42416	Pseudonaja mengdeni (Western Brown Snake)			
417.	25008	Pygopus lepidopodus (Common Scaly Foot)			
418.		Simoselaps bertholdi (Jan's Banded Snake)			
419.	24943	Strophurus spinigerus subsp. inornatus			
420.		Strophurus spinigerus subsp. spinigerus			
421.		Tiliqua occipitalis (Western Bluetongue)			
422.		Tiliqua rugosa			
423.		Tiliqua rugosa subsp. rugosa			
424.		Underwoodisaurus milii (Barking Gecko)			
425.	25526	Varanus tristis (Racehorse Monitor)			

Conservation Codes
T. Rare or likely to become extinct
X. Presended xtinct
IA. Protected under international agreement
S. - Other specially protected fauna
1. Priority
1. Priority
2. - Priority
3. - Priority
4. - Priority
5. - Priority
5. - Priority
6. -





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

GHD

Level 10 999 Hay Street

T: 61 8 6222 8222 F: 61 8 9463 6012 E: permail@ghd.com

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Revision	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
0	M Roberts	J Tindiglia		K Petani		13/12/2018
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