

# METRONET WHARF STREET LEVEL CROSSING

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## FLORA AND VEGETATION SURVEY

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# 1 INTRODUCTION

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## 1.1 Background

The Public Transport Authority (PTA) is currently seeking to implement parts of METRONET which is the State Government's long-term plan for public transport. As part of the plan the level crossing of the railway across Wharf Street is proposed to be removed and potentially replaced with a grade separated crossing at Hamilton Street.

## 1.2 Site Location

The Wharf Street Level Crossing Removal (hereafter referred to as 'the Study Area') is located in Cannington and Queens Park in the City of Canning, approximately 9km south-east of the Perth Central Business District (Figure 1). The study area is 10.11ha in size and contains part of the existing railway from 100m north of Hamilton Street to Treasure Road to the south-east (Figure 2). The study area is mostly bounded by Railway Parade and Sevenoaks Street. The boundary also extends along Hamilton Street and into areas at the end of Meuse Fairway and along an open drainage channel (Figure 2).

## 1.3 Objectives

The objectives of the flora and fauna surveys commissioned by PTA are:

- *Assess the biological values of each of the proposed projects to inform the environmental impact assessment process and support broader environmental approvals applications.*
- *Identify biological values of conservation significance for each of the proposed projects to minimise and/or manage potential environmental impacts.*

This report provides the flora and vegetation components of the biological values assessment.



## 2 EXISTING ENVIRONMENT

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### 2.1 Land Use

Examination of historical aerial photography shows that the study area was largely cleared in 1953 (Plate 1).

**Plate 1: Historical Aerial Photography from 1953 (Landgate, 2018)**



There are no areas that contain intact native vegetation in the Study Area, however there are areas of scattered native trees.

### 2.2 Topography

The study area is gently undulating and varies from approximately 6.7m to 9.5m Australian Height Datum (AHD) (DWER, 2018).

### 2.3 Geology and Soils

The majority of the study area is mapped in the Bassendean System and consists of very low relief, leached, grey siliceous Pleistocene sand dunes, intervening sandy and clayey swamps and gently undulating plains (Bolland, 1998). These soils are very leached, infertile and mildly acidic (DPIRD, 2017). An area to the south-east is located on the Pinjarra Plain system which consists of a broad low relief plain west of the foothills, comprising predominantly Pleistocene fluvial sediments and some Holocene alluvium associated with major current drainage systems. The major soils are naturally poorly drained and many swamps occur (DPIRD, 2018). The south-eastern extent of the study area is mapped on the Spearwood System which is the second oldest dune system (Bolland, 1998) and contains sand dunes and plains and consists of aeolian sand and limestone over sedimentary rocks (DPIRD, 2018).

The soil phases mapped in the study area are:

- EnvGeol S8 Phase (212Bs\_S8) consists of sand that is very light grey at the surface, yellow at depth, fine to medium-grained, sub-rounded quartz, moderately well sorted of eolian origin;
- Pinjarra Phase S10 (213Pj\_S10) which is described as very gently undulating plain with imperfectly drained mottled yellow duplex soils with sand to sandy loam topsoil; and
- EnvGeol LS5 Phase (211Sp\_LS5) which are soils based on limestone and are described as white to cream, fine-grained soils, commonly with algal lamination (DPIRD, 2018).

## **2.4 Hydrology**

Groundwater under the study area is between approximately 5mAHD to 6.3mAHD (DWER, 2018), which is between 2m and 4.8m below ground level. Groundwater generally flows to the south-east (DWER, 2018). The north-eastern part of the study area is mapped as a Multiple Use Dampland, Unique Feature Identifier (UFI) 7443 (National Map, 2018).

## **3 METHODOLOGY**

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### **3.1 Scope of Works**

A Detailed Flora and Vegetation Survey was undertaken in accordance with EPA Technical Guidance *Flora and Vegetation Surveys for Environmental Impact Assessment* (EPA, 2016). The survey included the following:

- Desktop search and review of Parks and Wildlife Service's (PaWS) (as part of the Department of Biodiversity, Conservation and Attractions (DBCA)) Naturemap database, the Department of the Environment and Energy's (DoEE) Protected Matters Search Tool and previous survey reports;
- Examination of recent aerial photography and contour maps to provisionally identify vegetation types and condition;
- Field survey using quadrats and/or relevés in areas of native vegetation to record native and introduced species as well as a thorough site walkover;
- Field survey to search for Threatened and Priority species;
- Recording of any significant plant species using a hand-held GPS;
- Description and mapping of vegetation types and vegetation condition;
- Record any weed species listed as Declared Pests under S22 of the BAM Act or as Weeds of National Significance were recorded in the study area; and
- Compilation of a flora list.

### **3.2 Database Searches**

Database searches using Naturemap (PaWS, 2018) and the Protected Matters Search Tool (DoEE, 2018) were undertaken for a 5km radius around length of the study area prior to the site survey. Other public information was also researched for the study area to determine any additional studies that had been completed on or near the study area.

### **3.3 Site Survey**

A flora and vegetation survey of the study area was conducted by Dr Paul van der Moezel on 23 October 2018. The whole site was walked to record the vegetation types and native species in the survey area. Access was not needed within the fenced portion of the rail reserve as it did not contain any native vegetation.

No quadrats or relevés were sampled as the whole survey area did not contain any native vegetation in Good condition or better.

### **3.4 Survey Conditions**

The conditions that the survey was undertaken in are presented in Table 1 in order to assess the adequacy of the survey. In summary, there were no constraints to the survey.

**Table 1: Statement of Botanical Survey Conditions**

Issue	Constraints (Y/N)*	Comment
Competency/experience of the consultant conducting the survey	No	Dr Paul van der Moezel has extensive botanical survey experience in the Perth Metropolitan Region.
Proportion of the flora identified^	No	The timing of the survey in October was optimal to record most of the native species.
Sources of information (historic/recent or new data)	No	The flora in the Perth Metropolitan Region is well documented.
Proportion of the task achieved and further work that may need to be undertaken	No	No follow-up survey required as no Threatened Flora expected to occur in other seasons.
Timing/weather/season/cycle	No	The spring survey was optimal for most flora species. 2018 was a good year for ephemeral species, including orchids.
Disturbances (Fire)	No	The fire age of the vegetation was greater than 5 years.
Intensity of survey (e.g. In retrospect was the intensity adequate)	No	The small site and ease of access made for a full coverage. Access was not required within the rail reserve.
Completeness (e.g. was relevant area fully surveyed)	No	
Resources (e.g. degree of expertise available for plant identification)	No	Experienced botanist undertook plant identifications on site.
Remoteness and/or access problems	No	Easily accessible site in the Perth Metropolitan Region.
Availability of contextual (e.g. bioregional) information for the study area.	No	Perth's Bush Forever

\*Constraints have been rated as Significant, Moderate or No constraints

^Fungi and nonvascular flora (e.g. algae, mosses and liverworts) were not specifically surveyed for during the survey.

## 4 RESULTS

### 4.1 Flora Database Searches

The conservation significant flora identified in the searches of Naturemap database (Appendix 1) and the Protected Matters Search Tool (Appendix 2) as occurring within 5km of the study area are listed in Table 2. Table 3 lists preferred habitat of these species.

**Table 2: Conservation Significant Flora likely to occur within 5km of the study area**

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act
<i>Caladenia huegelii</i>	King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid	Schedule 1	Endangered
<i>Calectasia cyanea</i>	Blue Tinsel Lily	Schedule 1	Critically Endangered
<i>Calytrix breviseta</i> subsp. <i>breviseta</i>	Swamp Starflower	Schedule 1	Endangered
<i>Drakaea elastica</i>	Glossy-leafed Hammer Orchid	Schedule 1	Endangered
<i>Eucalyptus x balanites</i>	Cadda Road Mallee	Schedule 1	Endangered
<i>Grevillea thelemanniana</i> subsp. <i>thelemanniana</i>	Spider Net Grevillea	Schedule 1	Critically Endangered
<i>Ptilotus pyramidatus</i>	Pyramid Mulla-mulla	Schedule 1	Critically Endangered
<i>Synaphea</i> sp. Fairbridge Farm (D Papenfus 696)	Selena's Synaphea	Schedule 1	Critically Endangered
<i>Thelymitra dedmaniarum</i> ( <i>Thelymitra manginii</i> )	Cinnamon Sun-orchid	Schedule 1	Endangered
<i>Austrostipa bronwenae</i>		Schedule 2	Endangered
<i>Diplolaena andrewsii</i>	Native Wild Rose	Schedule 2	Endangered
<i>Diuris micrantha</i>	Dwarf Bee-orchid	Schedule 2	Vulnerable
<i>Diuris purdiei</i>	Purdie's Donkey-orchid	Schedule 2	Endangered
<i>Eremophila glabra</i> subsp. <i>chlorella</i>		Schedule 2	Endangered
<i>Lepidosperma rostratum</i>	Beaked Lepidosperma	Schedule 2	Endangered
<i>Macarthuria keigheryi</i>	Keighery's Macarthuria	Schedule 2	Endangered
<i>Thelymitra stellata</i>	Star Sun-orchid	Schedule 2	Endangered
<i>Andersonia gracilis</i>	Slender Andersonia	Schedule 3	Endangered
<i>Banksia mimica</i>	Summer Honey-pot	Schedule 3	Endangered
<i>Chamelaucium</i> sp. Gingin (N.G. Marchant 6)	Gingin Wax	Schedule 3	Endangered
<i>Conospermum undulatum</i>	Wavy-leafed Smokebush	Schedule 3	Vulnerable
<i>Drakaea micrantha</i>	Dwarf Hammer-orchid	Schedule 3	Vulnerable

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act
<i>Eleocharis keigheryi</i>	Keighery's Eleocharis	Schedule 3	Vulnerable
<i>Tetraria australiensis</i>	Southern Tetraria	Schedule 3	Vulnerable
<i>Amanita quenda</i>	Quenda lepidella	Priority 1	
<i>Calandrinia</i> sp. Piawaning (A.C. Beaglehole 12257)		Priority 1	
<i>Haloragis scoparia</i>		Priority 1	
<i>Ptilotus sericostachyus</i> subsp. <i>roseus</i>		Priority 1	
<i>Schoenus</i> sp. Beaufort (G.J. Keighery 6291)		Priority 1	
<i>Comesperma griffinii</i>		Priority 2	
<i>Isotropis cuneifolia</i> subsp. <i>glabra</i>		Priority 2	
<i>Johnsonia pubescens</i> subsp. <i>cygnorum</i>		Priority 2	
<i>Lepyrodia curvescens</i>		Priority 2	
<i>Melaleuca viminalis</i>		Priority 2	
<i>Schoenus loliaceus</i>		Priority 2	
<i>Amanita preissii</i>	Cinnamon-ring Lepidella	Priority 3	
<i>Amanita wadjukiorum</i>		Priority 3	
<i>Babingtonia urbana</i>	Coastal Plain Babingtonia	Priority 3	
<i>Banksia pteridifolia</i> subsp. <i>vernalis</i>		Priority 3	
<i>Byblis gigantea</i>	Rainbow Plant	Priority 3	
<i>Carex tereticaulis</i>		Priority 3	
<i>Chamaescilla gibsonii</i>		Priority 3	
<i>Comesperma rhadinocarpum</i>	Slender-fruited Comesperma	Priority 3	
<i>Eryngium pinnatifidum</i> subsp. <i>Palustre</i> (G.J. Keighery 13459)		Priority 3	
<i>Eryngium</i> sp. <i>Subdecumbens</i> (G.J. Keighery 5390)		Priority 3	
<i>Haemodorum loratum</i>		Priority 3	
<i>Isopogon drummondii</i>		Priority 3	
<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>		Priority 3	
<i>Myriophyllum echinatum</i>		Priority 3	
<i>Platysace ramosissima</i>		Priority 3	
<i>Schoenus benthamii</i>		Priority 3	
<i>Schoenus capillifolius</i>		Priority 3	
<i>Schoenus pennisetis</i>		Priority 3	

Scientific Name	Common Name	Conservation Status (WA)	Status under EPBC Act
<i>Schoenus</i> sp. Waroona (G.J. Keighery 12235)		Priority 3	
<i>Stylidium aceratum</i>		Priority 3	
<i>Stylidium periscelanthum</i>	Pantaloon Triggerplant	Priority 3	
<i>Thysanotus anceps</i>		Priority 3	
<i>Aponogeton hexatepalus</i>	Stalked Water Ribbons	Priority 4	
<i>Boronia tenuis</i>	Blue Boronia	Priority 4	
<i>Dodonea hackettiana</i>	Hackett's Hopbush	Priority 4	
<i>Drosera occidentalis</i> subsp. <i>occidentalis</i>		Priority 4	
<i>Hydrocotyle lemnaoides</i>	Aquatic Pennywort	Priority 4	
<i>Lasiopetalum bracteatum</i>	Helena Velvet Bush	Priority 4	
<i>Ornduffia submersa</i>		Priority 4	
<i>Schoenus natans</i>	Floating Bog-rush	Priority 4	
<i>Stylidium longitubum</i>	Jumping Jacks	Priority 4	
<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		Priority 4	

Conservation Codes are shown in Appendix 3

**Table 3: Preferred habitat of Identified Conservation Significant Flora**

Scientific Name	Common Name	Habitat
<i>Caladenia huegelii</i>	King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid	The Grand Spider-orchid prefers sand or clay loam. This species generally does not survive in disturbed areas.
<i>Calectasia cyanea</i>	Blue Tinsel Lily	The Blue Tinsel Lily prefers white, grey or yellow sand or gravel.
<i>Calytrix breviseta</i> subsp. <i>breviseta</i>	Swamp Starflower	The Swamp Starflower occurs in sandy clay in swampy flats.
<i>Drakaea elastica</i>	Glossy-leafed Hammer Orchid	The Glossy-leafed Hammer Orchid prefers low-lying situations adjoining winter-wet swamps. This species does not survive in disturbed areas.
<i>Eucalyptus x balanites</i>	Cadda Road Mallee	The Cadda Road Mallee prefers sandy soils with lateritic gravel.
<i>Grevillea thelemanniana</i> subsp. <i>thelemanniana</i>	Spider Net Grevillea	Spider Net Grevillea is recorded from the edge of a seasonal clay based open depression, on slightly deeper sandier soils. Moist grey-brown sandy loam over clay (Western Australian Herbarium, 2012).
<i>Ptilotus pyramidatus</i>	Pyramid Mulla-mulla	The Pyramid Mulla-mulla occurs on seasonally inundated flat (floodplain) at an elevation of about 6.5 m above sea level.

Scientific Name	Common Name	Habitat
<i>Synaphea</i> sp. Fairbridge Farm (D Papenfus 696)	Selena's Synaphea	Selena's Synaphea occurs in sandy with lateritic pebbles near winter-wet flats, in low woodland with weedy grasses.
<i>Thelymitra dedmaniarum</i> ( <i>Thelymitra manginii</i> )	Cinnamon Sun-orchid	Cinnamon sun orchid is known from only two locations in the Gidgegannup area. It is confined to open wandoo woodland on red-brown sandy loam associated with dolerite and granite outcropping (DEC, 2012).
<i>Austrostipa bronwenae</i>		<i>Austrostipa bronwenae</i> is recorded from wetlands seasonally waterlogged muddy sand with <i>Gahnia trifida</i> , <i>Actinostrobilus pyramidalis</i> , <i>Grevillea thelemanniana</i> , <i>Melaleuca viminea</i> subsp. <i>viminea</i> (Australian National Herbarium, 2009).
<i>Diplolaena andrewsii</i>	Native Wild Rose	The Native Wild Rose occurs on loam, clay in association with granite outcrops and hillsides.
<i>Diuris micrantha</i>	Dwarf Bee-orchid	The Dwarf Bee-orchid is usually found on cleared firebreaks or open sandy patches that have been disturbed with in Jarrah Banksia woodland or thickets of Spearwood ( <i>Kunzea ericifolia</i> or <i>K. glabrescens</i> ) (Williams <i>et al.</i> , 2001).
<i>Diuris purdiei</i>	Purdie's Donkey-orchid	Purdie's Donkey Orchid occurs in grey-black sand in moist winter-wet swamps.
<i>Eremophila glabra</i> subsp. <i>chlorella</i>		<i>Eremophila glabra</i> subsp. <i>chlorella</i> occurs in sandy clay in winter-wet depressions.
<i>Lepidosperma rostratum</i>	Beaked Lepidosperma	Beaked Lepidosperma is found in peaty sand, clay.
<i>Macarthuria keigheryi</i>	Keighery's Macarthuria	Keighery's Macarthuria prefers white or grey sand.
<i>Thelymitra stellata</i>	Star Sun-orchid	The Star Sun-orchid prefers sand, gravel or lateritic loam.
<i>Andersonia gracilis</i>	Slender Andersonia	Slender Andersonia occurs in white/grey sand, sandy clay, gravelly loam in winter-wet areas, near swamps.
<i>Banksia mimica</i>	Summer Honeypot	Summer Honeypot prefers white or grey sand over laterite, sandy loam.
<i>Chamelaucium</i> sp. Gingin (N.G. Marchant 6)	Gingin Wax	Gingin wax grows in white/yellow sand supporting open low woodland.
<i>Conospermum undulatum</i>	Wavy-leaved Smokebush	Wavy-leaved Smokebush prefers grey or yellow-orange clayey sand.
<i>Drakaea micrantha</i>	Dwarf Hammer-orchid	Dwarf Hammer-orchid occurs in grey sands over dark, grey to blackish, sandy clay-loam substrates in winter wet depressions or swamps.
<i>Eleocharis keigheryi</i>	Keighery's Eleocharis	Keighery's Eleocharis occurs in clay, sandy loam and is emergent in freshwater: creeks, claypans.
<i>Tetraria australiensis</i>	Southern Tetraria	Southern Tetraria occurs in grey sand over clay; also described as yellow and sandy or clayey lateritic soils.



Scientific Name	Common Name	Habitat
<i>Amanita quenda</i>	Quenda lepidella	Quenda lepidella are solitary or scattered, in moist sandy soil in wetland vegetation (Davidson <i>et al.</i> , 2015).
<i>Calandrinia</i> sp. Piawaning (A.C. Beaglehole 12257)		<i>Calandrinia</i> sp. Piawaning occurs in brown/gey silty sandy loam over granite, near pools, small rise within large saline valley flats, disturbed shrubland.
<i>Haloragis scoparia</i>		<i>Haloragis scoparia</i> was recorded from an old lake bed, winter wet. Black calcareous clay over limestone (Western Australian Herbarium, 1994).
<i>Ptilotus sericostachyus</i> subsp. <i>roseus</i>		<i>Ptilotus sericostachyus</i> subsp. <i>roseus</i> was last recorded in 1906 (David and Tauss, 2011) in valleys (National Herbarium of Victoria, 1877).
<i>Schoenus</i> sp. Beaufort (G.J. Keighery 6291)		<i>Schoenus</i> sp. Beaufort occurs in mud in winter-wet claypans.
<i>Comesperma griffinii</i>		<i>Comesperma griffinii</i> grows in yellow or grey sand on plains.
<i>Isotropis cuneifolia</i> subsp. <i>glabra</i>		<i>Isotropis cuneifolia</i> subsp. <i>glabra</i> grows in sand, clay loam on winter-wet flats.
<i>Johnsonia pubescens</i> subsp. <i>cygnorum</i>		<i>Johnsonia pubescens</i> subsp. <i>cygnorum</i> occurs on grey-white-yellow sand on flats on seasonally-wet sites.
<i>Lepyrodia curvescens</i>		<i>Lepyrodia curvescens</i> occurs in sand, laterite in seasonally inundated swampland.
<i>Melaleuca viminalis</i>		<i>Melaleuca viminalis</i> is recorded from stony riverbed in rapids with sandstone rocks overlying volcanics, in the creekline of sandstone gorges in sand among rocks, and around a pool below a waterfall (Craven, Lepschi and Cowley, 2010).
<i>Schoenus loliaceus</i>		<i>Schoenus loliaceus</i> occurs on sandy soils in winter-wet depressions.
<i>Amanita preissii</i>	Cinnamon-ring Lepidella	Cinnamon-ring Lepidella is found under shrubs and Eucalyptus in West Australia.
<i>Amanita wadjukiorum</i>		<i>Amanita wadjukiorum</i> is solitary to gregarious, in sandy soil in degraded native vegetation (Davidson <i>et al.</i> , 2013).
<i>Babingtonia urbana</i>	Coastal Plain Babingtonia	Coastal Plain Babingtonia occurs in orange sand, brown loam, white sandy clay on low flats, winter-wet swamps.
<i>Banksia pteridifolia</i> subsp. <i>vernalis</i>		<i>Banksia pteridifolia</i> subsp. <i>vernalis</i> occurs in white/grey sand over laterite.
<i>Byblis gigantea</i>	Rainbow Plant	The Rainbow Plant occurs in sandy-peat swamps in seasonally wet areas.
<i>Carex tereticaulis</i>		<i>Carex tereticaulis</i> prefers black peaty sand.

Scientific Name	Common Name	Habitat
<i>Chamaescilla gibsonii</i>		<i>Chamaescilla gibsonii</i> grows in clay to sandy clay on winter-wet flats, shallow water-filled claypans.
<i>Comesperma rhadinocarpum</i>	Slender-fruited Comesperma	Slender-fruited Comesperma occurs in sandy soils.
<i>Eryngium pinnatifidum</i> subsp. Palustre (G.J. Keighery 13459)		<i>Eryngium pinnatifidum</i> subsp. Palustre is recorded from a winter wet claypan, water to 20 cm deep in grey-brown clay (Western Australian Herbarium, 1989).
<i>Eryngium</i> sp. Subdecumbens (G.J. Keighery 5390)		<i>Eryngium</i> sp. Subdecumbens grows in clay, grey sand on seasonally wet flats, claypans, swamps.
<i>Haemodorum loratum</i>		<i>Haemodorum loratum</i> prefers grey or yellow sand, gravel.
<i>Isopogon drummondii</i>		<i>Isopogon drummondii</i> occurs in white, grey or yellow sand, often over laterite.
<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>		<i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i> occurs in lateritic and granitic soils.
<i>Myriophyllum echinatum</i>		<i>Myriophyllum echinatum</i> grows in clay on winter-wet flats.
<i>Platysace ramosissima</i>		<i>Platysace ramosissima</i> prefers sandy soils.
<i>Schoenus benthamii</i>		<i>Schoenus benthamii</i> prefers white, grey sand, sandy clay in winter-wet flats, swamps.
<i>Schoenus capillifolius</i>		<i>Schoenus capillifolius</i> grows in brown mud on claypans.
<i>Schoenus pennisetis</i>		<i>Schoenus pennisetis</i> occurs in grey or peaty sand, sandy clay in swamps, winter-wet depressions.
<i>Schoenus</i> sp. Waroona (G.J. Keighery 12235)		<i>Schoenus</i> sp. Waroona occurs in clay or sandy clay on winter-wet flats.
<i>Stylidium aceratum</i>		<i>Stylidium aceratum</i> occurs in sandy soils in swamp heathland.
<i>Stylidium periscelanthum</i>	Pantaloon Triggerplant	The Pantaloon Triggerplant occurs in loamy clay, moist soils pockets on wet flats, low granitic hills.
<i>Thysanotus anceps</i>		<i>Thysanotus anceps</i> grows on white or grey sand, lateritic gravel, laterite.
<i>Aponogeton hexatepalus</i>	Stalked Water Ribbons	Stalked Water Ribbons grow in freshwater: ponds, rivers, claypans.
<i>Boronia tenuis</i>	Blue Boronia	Blue Boronia prefers laterite, stony soils, granite.
<i>Dodonaea hackettiana</i>	Hackett's Hopbush	Hackett's Hopbush occurs in sand with outcropping limestone.

Scientific Name	Common Name	Habitat
<i>Drosera occidentalis</i> subsp. <i>occidentalis</i>		<i>Drosera occidentalis</i> subsp. <i>occidentalis</i> occurs in sandy and clayey soils in swamps and wet depressions.
<i>Hydrocotyle lemnoides</i>	Aquatic Pennywort	Aquatic Pennywort occurs in swamps.
<i>Lasiopetalum bracteatum</i>	Helena Velvet Bush	Helena Velvet Bush occurs in sandy clay, clay, lateritic gravel along drainage lines, creeks, gullies, granite outcrops.
<i>Ornduffia submersa</i>		<i>Ornduffia submersa</i> grows in freshwater 0.05-0.6 m deep. Pools, lakes, swamps, winter-wet depressions, claypans.
<i>Schoenus natans</i>	Floating Bog-rush	Floating Bog-rush occurs in winter-wet depressions.
<i>Stylidium longitubum</i>	Jumping Jacks	Jumping Jacks prefer sandy clay, clay in seasonal wetlands.
<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i> prefers sand, sandy clay in winter-wet depressions.

\* sourced from Florabase, PaWS database searches and SPRAT (DoEE, 2018) unless otherwise denoted

No Threatened or Priority species have been recorded in the area in previous surveys.

## 4.2 Flora

The study area did not contain any intact native vegetation in Good condition or better. Some isolated remnant native plants were recorded as shown in Table 4.

No weed species listed as Declared Pests under S22 of the BAM Act or as Weeds of National Significance were recorded in the study area. *Dolichos* Pea (*Dipogon lignosus*) was abundant on *Eucalyptus rudis* trees at location 2 but is not a Declared Pest or Weed of National Significance.

A list of all the trees and shrubs recorded in the survey area is provided in Table 4.

**Table 4: Trees and Shrubs Recorded in the Survey Area**

Scientific Name	Common Name	Locally Native
<i>Acacia saligna</i>	Orange Wattle	+
<i>Agonis flexuosa</i>	WA Peppermint	-
<i>Callistemon viminalis</i>	Bottlebrush	-
<i>Chamaecytisus palmensis</i>	Tagasaste	-
<i>Corymbia calophylla</i>	Marri	+
<i>Erythrina indica</i>	Flame Tree	-
<i>Eucalyptus botryoides</i>	Bangalay	-
<i>Eucalyptus camaldulensis</i>	River Red Gum	-
<i>Eucalyptus grandis</i>	Rose Gum	-
<i>Eucalyptus marginata</i>	Jarrah	+
<i>Eucalyptus rudis</i>	Flooded Gum	+
<i>Ficus carica</i>	Edible Fig	-
<i>Ficus elastica</i>	Rubber Tree	-

Scientific Name	Common Name	Locally Native
<i>Ficus microphylla</i> var. <i>hillii</i>	Hill's Weeping Fig	-
<i>Jacaranda mimosifolia</i>	Jacaranda	-
<i>Melaleuca armillaris</i>		-
<i>Melaleuca preissiana</i>	Moonah Paperbark	+
<i>Melia azedarach</i>	Cape Lilac	-
<i>Populus</i> sp.	Poplar	-
<i>Schinus terebinthifolius</i>	Japanese Pepper	-

### 4.3 Vegetation

#### 4.3.1 Vegetation Types

No intact native vegetation was recorded in the survey area (Figure 4). The stand of Marri on the southern side of Hamilton Street (location 6 below) and the individual *Eucalyptus rudis* and *Melaleuca preissiana* trees on the block between Hamilton Street and the drain are likely to be remnant native trees as well as some younger ones that have probably regenerated from the parent trees.

A broad description of the vegetation recorded in the study area follows. Photographs of areas described are provided in Appendix 1 and the locations shown on Figure 3.

Location 1 – Flooded Gum (*Eucalyptus rudis*), *Acacia saligna*, *Melaleuca armillaris* and Hill's Weeping Fig over a manicured grassy lawn.

Location 2 – Unhealthy Flooded Gum covered in Dolichos Pea

Location 3 – Bare drain

Location 4 – *Melaleuca preissiana*, Tagasaste, Japanese Pepper

Location 5 – Cape Lilac and Coral Tree

Location 6 – Stand of Marri, one Jarrah and some *Melaleuca preissiana*

Location 7 – Hill's Weeping Fig and River Red Gum

Location 8 – River Red Gums, Jacaranda, Marri, *Eucalyptus botryoides*, WA Peppermint

Location 9 – Rose Gum, Cape Lilac, Edible Fig, Rubber Tree, Poplar, Japanese Pepper

Location 10 – River Red Gums, Cape Lilac, Bottlebrush

#### 4.3.2 Vegetation Condition

The condition of the study area was assessed according to the system of Keighery as described in Bush Forever (Government of Western Australia, 2000) (Table 5).

**Table 5: Vegetation Condition Rating Scale**

<b>Condition</b>	<b>Description</b>
Pristine	Pristine or nearly so, no obvious signs of disturbance.
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species.
Very Good	Vegetation structure altered, obvious signs of disturbance. For example, 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 disturbance. Retains basic vegetation structure or ability to regenerate to it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some very aggressive weeds at high density, 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. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.
Completely Degraded	The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. These are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees or shrubs.

The whole site was rated as Completely Degraded due to the absence of any areas of intact native vegetation.

#### **4.4 Conservation Significance of Flora and Vegetation**

##### **4.4.1 Flora**

No Threatened or Priority flora species were recorded in the study area.

##### **4.4.2 Vegetation**

No native vegetation of conservation significance was recorded in the study area.

## 5 SUMMARY AND CONCLUSIONS

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The Flora and Vegetation survey resulted in the following findings:

- No vegetation was recorded in the rail reserve;
- Vegetation in the road reserves and undeveloped parks were mostly planted non-native plants;
- The stand of Marri on the southern side of Hamilton Street and individual *Eucalyptus rudis* and *Melaleuca preissiana* trees on the block between Hamilton Street and the drain are likely to be remnant native trees;
- The condition of all vegetation recorded was rated as Completely Degraded;
- No Threatened (Declared Rare) or Priority flora species were recorded in the study area;
- No Threatened or Priority Ecological Communities were recorded in the study area; and
- No weed species listed as Declared Pests under S22 of the BAM Act or as Weeds of National Significance were recorded in the study area.

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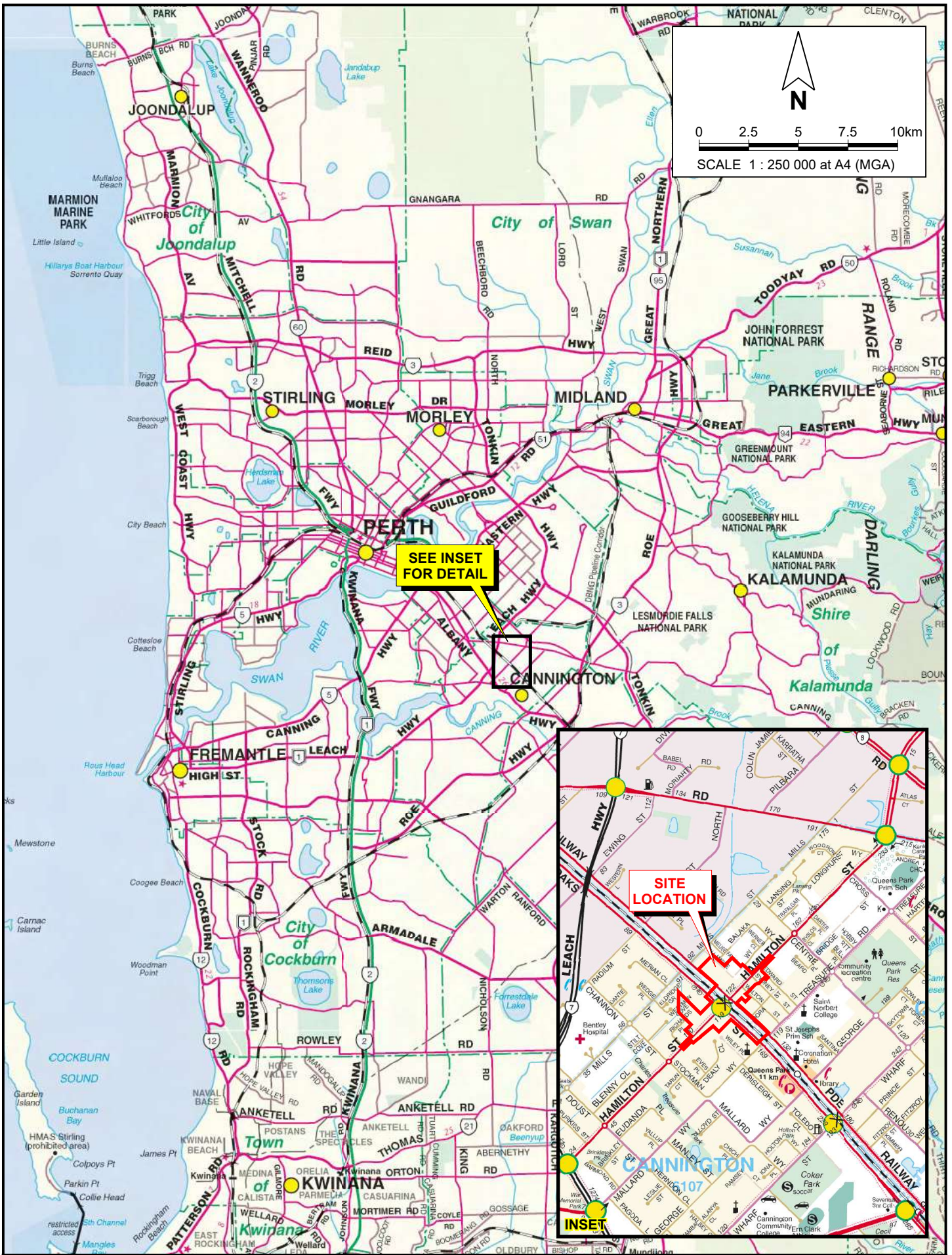
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# FIGURES




2018-409-01.dgn  
 PINPOINT CARTOGRAPHICS (08) 9562 7136

		Public Transport Authority FLORA AND VEGETATION SURVEY METRONET WHARF STREET LEVEL CROSSING		<b>Figure 1</b>
Drawn: P. van der Moezel	Date: 7 Nov 2018	<b>SITE LOCATION</b>		
Job: 10331 Rpt: 2018-409	Revision: A			





 N  
 SCALE 1 : 2 000 at A3 (MGA)  
**Legend**  
 - - - Site Boundary  
 — Cadastral Boundary  
 - - - Easement Boundary

**Figure 2**

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Public Transport Authority  
 FLORA AND VEGETATION SURVEY  
 METRONET WHARF STREET LEVEL CROSSING

**SITE BOUNDARY**


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**PGV** ENVIRONMENTAL  
 Drawn: P. van der Meezel Date: 7 Nov 2018  
 Job: 10381 Rpt: 2018-09 Revison: A

CADASTRAL SOURCE: Landgate, November 2018.  
 AERIAL PHOTOGRAPHY SOURCE: NearMap, 10th September 2018.





 N  
 SCALE 1 : 2 000 at A3 (MGA)  
 0 20 40 60 80 100m  
**Legend**  
 - - - Site Boundary  
 — Cadastral Boundary  
 - - - Easement Boundary  
 [Green Outline] Vegetation Description Area

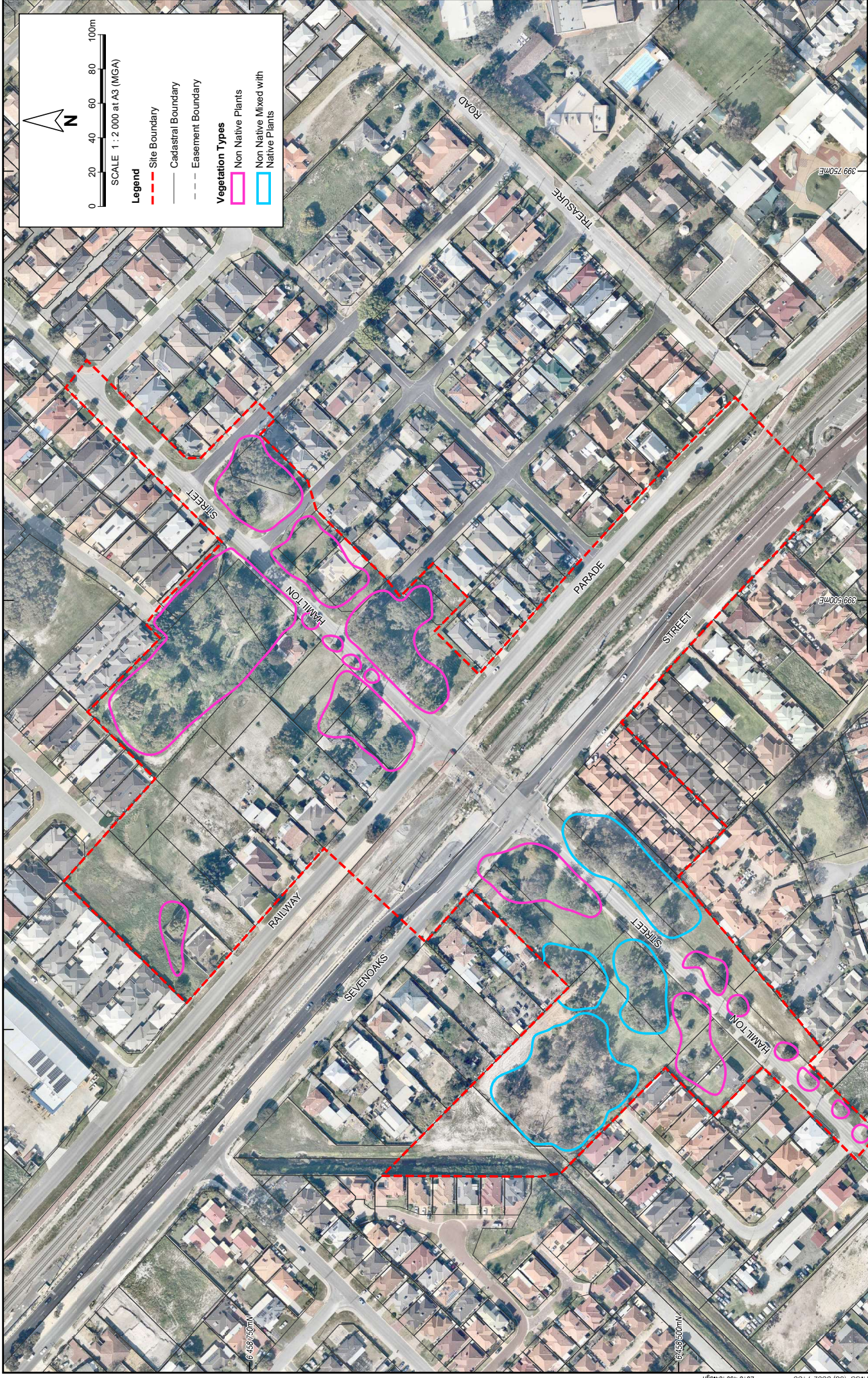
**Figure 3**


Public Transport Authority  
 FLORA AND VEGETATION SURVEY  
 METRONET WHARF STREET LEVEL CROSSING

**PGV ENVIRONMENTAL**  
 Drawn: P. van der Meezel Date: 7 Nov 2018  
 Job: 10381 Rpt: 2018-09 Revisior: A



**VEGETATION DESCRIPTION LOCATIONS**






  
 SCALE 1 : 2 000 at A3 (MGA)
   
 0 20 40 60 80 100m

**Legend**
  
 - - - Site Boundary
   
 - - - Cadastral Boundary
   
 - - - Easement Boundary

**Vegetation Types**
  
 Non Native Plants
   
 Non Native Mixed with Native Plants

**Figure 4**

Public Transport Authority  
 FLORA AND VEGETATION SURVEY  
 METRONET WHARF STREET LEVEL CROSSING


**PGV ENVIRONMENTAL**

Drawn: P. van der Meezel	Date: 7 Nov 2018
Job: 10381	Rpt: 2018-09
	Revison: A

**VEGETATION TYPES**





  
 SCALE 1 : 2 000 at A3 (MGA)  
 0 20 40 60 80 100m  
**Legend**  
 - - - Site Boundary  
 - - - Cadastral Boundary  
 - - - Easement Boundary  
 - - - Vegetation Condition Boundary  
 CD Vegetation Condition

**Vegetation Condition**  
 (SOURCE: Bush Forever, Govt. of W.A., 2000)

**P - Pristine**  
 Pristine or nearly so, no obvious signs of disturbance.

**Ex - Excellent**  
 Vegetation structure intact, disturbance affecting individual species and weeds are non aggressive species.

**VG - Very Good**  
 Vegetation structure altered, obvious signs of disturbance. For example disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging and grazing.

**G - Good**  
 Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. For example, disturbance to vegetation structure caused by very frequent fires, the presence of some more aggressive weeds at high density, partial clearing, dieback and grazing.

**D - Degraded**  
 Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. For example, disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback and grazing.

**CD - Completely Degraded**  
 The structure of the vegetation is no longer intact and the areas is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the fire imposing weed or crop species with isolated native trees or shrubs.

**CI - Cleared**  
 No native vegetation remaining.

**PGV ENVIRONMENTAL**

Public Transport Authority  
 FLORA AND VEGETATION SURVEY  
 METRONET WHARF STREET LEVEL CROSSING

Job: 10331 Rpt: 2018-09 Revision: A  
 Drawn: P. van der Meezel Date: 7 Nov 2018

**VEGETATION CONDITION**

FIGURE 5

CADASTRAL SOURCE: Landgate, November 2018.  
 AERIAL PHOTOGRAPHY SOURCE: NearMap, Town, September 2018.



# **APPENDIX 1**

## **Naturemap Report**

# NatureMap Species Report

Created By Guest user on 01/11/2018

**Current Names Only** Yes  
**Core Datasets Only** Yes  
**Method** 'By Circle'  
**Centre** 115° 56' 07" E, 32° 00' 14" S  
**Buffer** 5km  
**Group By** Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	1287	42272
Other specially protected fauna	2	7
Priority 1	5	7
Priority 2	7	8
Priority 3	24	88
Priority 4	13	163
Protected under international agreement	7	122
Rare or likely to become extinct	23	1383
<b>TOTAL</b>	<b>1368</b>	<b>44050</b>

Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area
<b>Rare or likely to become extinct</b>				
1.	6309 <i>Andersonia gracilis</i>		T	
2.	38480 <i>Austrostipa bronwenae</i>		T	
3.	1596 <i>Caladenia huegelii</i> (Grand Spider Orchid)		T	
4.	1213 <i>Calectasia cyanea</i> (Blue Tinsel Lily)		T	
5.	24731 <i>Calyptorhynchus banksii</i> subsp. <i>naso</i> (Forest Red-tailed Black Cockatoo)		T	
6.	24733 <i>Calyptorhynchus baudinii</i> (Baudin's Cockatoo, White-tailed Long-billed Black Cockatoo)		T	
7.	24734 <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo, White-tailed Short-billed Black Cockatoo)		T	
8.	48400 <i>Calyptorhynchus</i> sp. (white-tailed black cockatoo)		T	
9.	13653 <i>Calytrix breviseta</i> subsp. <i>breviseta</i>		T	
10.	13999 <i>Conospermum undulatum</i>		T	
11.	24092 <i>Dasyurus geoffroii</i> (Chuditch, Western Quoll)		T	
12.	1637 <i>Diuris purdiei</i> (Purdie's Donkey Orchid)		T	
13.	17605 <i>Eleocharis keigheryi</i>		T	
14.	17150 <i>Eremophila glabra</i> subsp. <i>chlorella</i>		T	
15.	2107 <i>Grevillea thelemanniana</i> (Spider Net Grevillea)		T	
16.	33983 <i>Leioproctus douglasiellus</i> (a short-tongued bee)		T	
17.	942 <i>Lepidosperma rostratum</i>		T	
18.	17106 <i>Macarthuria keigheryi</i>		T	
19.	33984 <i>Neopasiphae simplicior</i> (a short-tongued bee)		T	
20.	2753 <i>Ptilotus pyramidatus</i>		T	Y
21.	18590 <i>Synaphea</i> sp. Fairbridge Farm (D. Papenfus 696)		T	
22.	1033 <i>Tetraria australiensis</i>		T	
23.	34113 <i>Westralunio carteri</i> (Carter's Freshwater Mussel)		T	
<b>Protected under international agreement</b>				
24.	41323 <i>Actitis hypoleucos</i> (Common Sandpiper)		IA	
25.	48587 <i>Hydroprogne caspia</i> (Caspian Tern)		IA	
26.	48591 <i>Pandion cristatus</i> (Osprey, Eastern Osprey)		IA	
27.	24843 <i>Plegadis falcinellus</i> (Glossy Ibis)		IA	
28.	48597 <i>Thalasseus bergii</i> (Crested Tern)		IA	
29.	24806 <i>Tringa glareola</i> (Wood Sandpiper)		IA	
30.	24808 <i>Tringa nebularia</i> (Common Greenshank, greenshank)		IA	
<b>Other specially protected fauna</b>				
31.	25624 <i>Falco peregrinus</i> (Peregrine Falcon)		S	
32.	48070 <i>Phascogale tapoatafa</i> subsp. <i>wambenger</i> (South-western Brush-tailed Phascogale, Wambenger)		S	
<b>Priority 1</b>				



Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
33.	45014 <i>Amanita quenda</i>		P1	
34.	20096 <i>Calandrinia</i> sp. <i>Piawaning</i> (A.C. Beauglehole 12257)		P1	
35.	6178 <i>Haloragis scoparia</i>		P1	
36.	11615 <i>Ptilotus sericostachyus</i> subsp. <i>roseus</i>		P1	
37.	16280 <i>Schoenus</i> sp. <i>Beaufort</i> (G.J. Keighery 6291)		P1	
<b>Priority 2</b>				
38.	14663 <i>Comesperma griffinii</i>		P2	
39.	48581 <i>Glossurocolletes bilobatus</i> (a short-tongued bee (southwest), short-tongued bee)		P2	
40.	16317 <i>Isotropis cuneifolia</i> subsp. <i>glabra</i>		P2	
41.	19272 <i>Johnsonia pubescens</i> subsp. <i>cygnorum</i>		P2	
42.	19241 <i>Lepyrodia curvescens</i>		P2	
43.	37683 <i>Melaleuca viminalis</i>		P2	
44.	999 <i>Schoenus loliaceus</i>		P2	
<b>Priority 3</b>				
45.	48332 <i>Amanita preissii</i> (Cinnamon-ring <i>Lepidella</i> )		P3	
46.	43542 <i>Amanita wadjukiorum</i>		P3	
47.	48574 <i>Australotomurus morbidus</i> (cemetery springtail, Guildford springtail)		P3	
48.	45402 <i>Babingtonia urbana</i> (Coastal Plain <i>Babingtonia</i> )		P3	
49.	32138 <i>Banksia pteridifolia</i> subsp. <i>vernalis</i>		P3	
50.	3178 <i>Byblis gigantea</i> (Rainbow Plant)		P3	
51.	759 <i>Carex tereticaulis</i>		P3	
52.	19338 <i>Chamaescilla gibsonii</i>		P3	
53.	4560 <i>Comesperma rhadinocarpum</i> (Slender-fruited <i>Comesperma</i> )		P3	
54.	41801 <i>Eryngium pinnatifidum</i> subsp. <i>Palustre</i> (G.J. Keighery 13459)		P3	
55.	41810 <i>Eryngium</i> sp. <i>Subdecumbens</i> (G.J. Keighery 5390)		P3	
56.	1469 <i>Haemodorum loratum</i>		P3	
57.	29775 <i>Isopogon drummondii</i>		P3	
58.	45081 <i>Lasiopetalum glutinosum</i> subsp. <i>glutinosum</i>		P3	
59.	25147 <i>Lerista lineata</i> (Perth Slider, Lined Skink)		P3	
60.	6193 <i>Myriophyllum echinatum</i>		P3	
61.	11132 <i>Platysace ramosissima</i>		P3	
62.	974 <i>Schoenus benthamii</i>		P3	
63.	980 <i>Schoenus capillifolius</i>		P3	
64.	1008 <i>Schoenus pennisetis</i>		P3	
65.	17731 <i>Schoenus</i> sp. <i>Waroona</i> (G.J. Keighery 12235)		P3	
66.	18564 <i>Stylidium aceratum</i>		P3	
67.	7771 <i>Stylidium periscelanthum</i> (Pantaloons Triggerplant)		P3	
68.	1317 <i>Thysanotus anceps</i>		P3	
<b>Priority 4</b>				
69.	141 <i>Aponogeton hexatepalus</i> (Stalked Water Ribbons)		P4	
70.	4444 <i>Boronia tenuis</i> (Blue Boronia)		P4	
71.	4763 <i>Dodonaea hackettiana</i> (Hackett's Hopbush)		P4	
72.	13191 <i>Drosera occidentalis</i> subsp. <i>occidentalis</i>		P4	
73.	6233 <i>Hydrocotyle lemnoides</i> (Aquatic Pennywort)		P4	
74.	24215 <i>Hydromys chrysogaster</i> (Water-rat, Rakali)		P4	
75.	48588 <i>Isodon fusciventer</i> (Quenda, southwestern brown bandicoot)		P4	
76.	5025 <i>Lasiopetalum bracteatum</i> (Helena Velvet Bush)		P4	
77.	36200 <i>Ornduffia submersa</i>		P4	
78.	24328 <i>Oxyura australis</i> (Blue-billed Duck)		P4	
79.	1003 <i>Schoenus natans</i> (Floating Bog-rush)		P4	
80.	7756 <i>Stylidium longitubum</i> (Jumping Jacks)		P4	
81.	14714 <i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>		P4	
<b>Non-conservation taxon</b>				
82.	19708 <i>Abutilon grandifolium</i>	Y		
83.	15466 <i>Acacia applanata</i>			
84.	3294 <i>Acacia dentifera</i>			
85.	11926 <i>Acacia drewiana</i> subsp. <i>drewiana</i>			
86.	3374 <i>Acacia huegelii</i>			
87.	3383 <i>Acacia incurva</i>			
88.	3409 <i>Acacia lasiocarpa</i> (Panjang)			
89.	11611 <i>Acacia lasiocarpa</i> var. <i>lasiocarpa</i>			
90.	17861 <i>Acacia longifolia</i>	Y		
91.	17464 <i>Acacia longifolia</i> subsp. <i>longifolia</i>	Y		
92.	17860 <i>Acacia podalyriifolia</i>	Y		
93.	15481 <i>Acacia pulchella</i> var. <i>glaberrima</i>			
94.	15483 <i>Acacia pulchella</i> var. <i>pulchella</i>			
95.	3527 <i>Acacia saligna</i> (Orange Wattle, Kudjong)			
96.	30033 <i>Acacia saligna</i> subsp. <i>lindleyi</i>			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
97.	30032 <i>Acacia saligna</i> subsp. <i>saligna</i>			
98.	3541 <i>Acacia sessilis</i>			
99.	3557 <i>Acacia stenoptera</i> (Narrow Winged Wattle)			
100.	24260 <i>Acanthiza apicalis</i> (Broad-tailed Thornbill, Inland Thornbill)			
101.	24261 <i>Acanthiza chrysothroa</i> (Yellow-rumped Thornbill)			
102.	24262 <i>Acanthiza inornata</i> (Western Thornbill)			
103.	1205 <i>Acanthocarpus canaliculatus</i>			
104.	24560 <i>Acanthorhynchus superciliosus</i> (Western Spinebill)			
105.	7811 <i>Acanthospermum hispidum</i> (Starburr)	Y		
106.	25535 <i>Accipiter cirrocephalus</i> (Collared Sparrowhawk)			
107.	24281 <i>Accipiter cirrocephalus</i> subsp. <i>cirrocephalus</i> (Collared Sparrowhawk)			
108.	25536 <i>Accipiter fasciatus</i> (Brown Goshawk)			
109.	24282 <i>Accipiter fasciatus</i> subsp. <i>fasciatus</i> (Brown Goshawk)			
110.	<i>Acerella falcipes</i>			
111.	42368 <i>Acritoscincus trilineatus</i> (Western Three-lined Skink)			
112.	25755 <i>Acrocephalus australis</i> (Australian Reed Warbler)			
113.	6205 <i>Actinotus leucocephalus</i> (Flannel Flower)			
114.	1775 <i>Adenanthos cygnorum</i> (Common Woollybush)			
115.	11837 <i>Adenanthos cygnorum</i> subsp. <i>cygnorum</i> (Common Woollybush)			
116.	<i>Afurcagobius suppositus</i>			
117.	23474 <i>Agrostocrinum hirsutum</i>			
118.	1261 <i>Agrostocrinum scabrum</i> (Blue Grass Lily)			
119.	23501 <i>Agrostocrinum scabrum</i> subsp. <i>scabrum</i>			
120.	184 <i>Aira caryophylla</i> (Silvery Hairgrass)	Y		
121.	1056 <i>Alexgeorgea nitens</i>			
122.	1732 <i>Allocasuarina humilis</i> (Dwarf Sheoak)			
123.	1734 <i>Allocasuarina microstachya</i>			
124.	2648 <i>Alternanthera denticulata</i> (Lesser Joyweed)			
125.	2652 <i>Alternanthera nodiflora</i> (Common Joyweed)			
126.	48626 <i>Althenia australis</i>			
127.	38757 <i>Amanita xanthocephala</i>			
128.	7820 <i>Ambrosia artemisiifolia</i> (Annual Ragweed, Bitterweed, Hay-feverweed, Hog-weed)	Y		
129.	7821 <i>Ambrosia psilostachya</i> (Perennial Ragweed)	Y		
130.	13380 <i>Amphibromus nervosus</i>			
131.	197 <i>Amphipogon debilis</i>			
132.	200 <i>Amphipogon turbinatus</i>			
133.	13267 <i>Amyema linophylla</i> subsp. <i>linophylla</i>			
134.	2383 <i>Amyema preissii</i> (Wireleaf Mistletoe)			
135.	<i>Aname mainae</i>			
136.	<i>Aname tepperi</i>			
137.	1058 <i>Anarthria gracilis</i>			
138.	24310 <i>Anas castanea</i> (Chestnut Teal)			
139.	24312 <i>Anas gracilis</i> (Grey Teal)			
140.	24313 <i>Anas platyrhynchos</i> (Mallard)			
141.	<i>Anas platyrhynchos</i> subsp. <i>domesticus</i>			
142.	24315 <i>Anas rhynchotis</i> (Australasian Shoveler)			
143.	24316 <i>Anas superciliosa</i> (Pacific Black Duck)			
144.	6300 <i>Andersonia aristata</i> (Rice Flower)			
145.	6312 <i>Andersonia involucrata</i>			
146.	7833 <i>Angianthus preissianus</i>			
147.	<i>Anguilla australis</i>			
148.	47414 <i>Anhinga novaehollandiae</i> (Australasian Darter)			
149.	11470 <i>Anigozanthos bicolor</i> subsp. <i>bicolor</i>			
150.	1411 <i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw, Kurulbrang)			
151.	11261 <i>Anigozanthos manglesii</i> subsp. <i>manglesii</i>			
152.	1416 <i>Anigozanthos viridis</i> (Green Kangaroo Paw, Kurulbardang)			
153.	11566 <i>Anigozanthos viridis</i> subsp. <i>viridis</i>			
154.	17455 <i>Anredera cordifolia</i>	Y		
155.	<i>Anser anser</i>			
156.	24561 <i>Anthochaera carunculata</i> (Red Wattlebird)			
157.	24562 <i>Anthochaera lunulata</i> (Western Little Wattlebird)			
158.	12724 <i>Anthotium junciforme</i>			
159.	24599 <i>Anthus australis</i> subsp. <i>australis</i> (Australian Pipit)			
160.	3686 <i>Aotus cordifolia</i>			
161.	3688 <i>Aotus gracillima</i>			
162.	1117 <i>Aphelia cyperoides</i>			
163.	1118 <i>Aphelia drummondii</i>			
164.	43548 <i>Aphelia</i> sp. Albany (B.G. Briggs 596)			
165.	12040 <i>Apium prostratum</i> var. <i>prostratum</i> (Sea Celery)			
166.	24991 <i>Aprasia repens</i> (Sand-plain Worm-lizard)			

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167.	24285 <i>Aquila audax</i> (Wedge-tailed Eagle)			
168.	<i>Araneus cyphoxis</i>			
169.	<i>Araneus eburneiventris</i>			
170.	<i>Araneus senicaudatus</i>			
171.	<i>Araneus talipedatus</i>			
172.	7838 <i>Arctotheca calendula</i> (Cape Weed, African Marigold)	Y		
173.	38969 <i>Arcyria minuta</i>			
174.	25557 <i>Ardea garzetta</i> (Little Egret)			
175.	25559 <i>Ardea intermedia</i> (Intermediate Egret)			
176.	41324 <i>Ardea modesta</i> (great egret, white egret)			
177.	24340 <i>Ardea novaehollandiae</i> (White-faced Heron)			
178.	24341 <i>Ardea pacifica</i> (White-necked Heron)			
179.	25560 <i>Ardea sacra</i> (Eastern Reef Egret, Eastern Reef Heron)			
180.	<i>Argiope trifasciata</i>			
181.	1264 <i>Arnocrinum preissii</i>			
182.	25566 <i>Artamus cinereus</i> (Black-faced Woodswallow)			
183.	24353 <i>Artamus cyanopterus</i> (Dusky Woodswallow)			
184.	<i>Artema atlanta</i>			
185.	<i>Artonia linnaei</i>			
186.	<i>Artonia taeniifera</i>			
187.	<i>Artonopsis eccentrica</i>			
188.	<i>Artonopsis exposita</i>			
189.	<i>Artonopsis joergii</i>			
190.	226 <i>Arundo donax</i> (Giant Reed)	Y		
191.	1201 <i>Asparagus officinalis</i> (Asparagus)	Y		
192.	1364 <i>Asphodelus fistulosus</i> (Onion Weed)	Y		
193.	20350 <i>Astartea affinis</i> (West-coast Astartea)			
194.	20249 <i>Astartea leptophylla</i> (River-bank Astartea)			
195.	20283 <i>Astartea scoparia</i> (Common Astartea)			
196.	6327 <i>Astroloma foliosum</i> (Candle Cranberry)			
197.	6330 <i>Astroloma macrocalyx</i> (Swan Berry)			
198.	6334 <i>Astroloma pallidum</i> (Kick Bush)			
199.	6337 <i>Astroloma stomarrhena</i> (Red Swamp Cranberry)			
200.	6339 <i>Astroloma xerophyllum</i>			
201.	2471 <i>Atriplex prostrata</i> (Hastate Orache)	Y		
202.	<i>Austracantha minax</i>			
203.	<i>Austrammo harveyi</i>			
204.	17237 <i>Austrostipa elegantissima</i>			
205.	17254 <i>Austrostipa tenuifolia</i>			
206.	17257 <i>Austrostipa variabilis</i>			
207.	233 <i>Avena barbata</i> (Bearded Oat)	Y		
208.	20013 <i>Axonopus fissifolius</i>	Y		
209.	24318 <i>Aythya australis</i> (Hardhead)			
210.	42902 <i>Azolla rubra</i>			
211.	18279 <i>Babiana angustifolia</i>	Y		
212.	36441 <i>Babingtonia camphorosmae</i> (Camphor Myrtle)			
213.	45403 <i>Babingtonia pelloeae</i> (Pelloe's Babingtonia)			
214.	38978 <i>Badhamia panicea</i>			
215.	<i>Badumna insignis</i>			
216.	<i>Ballarra longipalpus</i>			
217.	1800 <i>Banksia attenuata</i> (Slender Banksia, Piara)			
218.	32580 <i>Banksia dallanneyi</i> var. <i>dallanneyi</i>			
219.	1819 <i>Banksia grandis</i> (Bull Banksia, Pulgarla)			
220.	1823 <i>Banksia incana</i>			
221.	1830 <i>Banksia littoralis</i> (Swamp Banksia, Pungura)			
222.	1834 <i>Banksia menziesii</i> (Firewood Banksia)			
223.	1852 <i>Banksia telmatiaea</i> (Swamp Fox Banksia)			
224.	32315 <i>Barbula calycina</i>			
225.	<i>Barnardius zonarius</i>			
226.	15037 <i>Bartsia trixago</i>	Y		
227.	740 <i>Baumea arthropphylla</i>			
228.	743 <i>Baumea juncea</i> (Bare Twigrush)			
229.	745 <i>Baumea preissii</i>			
230.	5393 <i>Beaufortia squarrosa</i> (Sand Beaufortia, Sand Bottlebrush, Puno)			
231.	24319 <i>Biziura lobata</i> (Musk Duck)			
232.	749 <i>Bolboschoenus caldwellii</i> (Marsh Club-rush)			
233.	48689 <i>Bolboschoenus fluviatilis</i>			
234.	4413 <i>Boronia crenulata</i> (Aniseed Boronia)			
235.	16636 <i>Boronia crenulata</i> subsp. <i>viminea</i>			
236.	4414 <i>Boronia cymosa</i> (Granite Boronia)			

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237.	4417 <i>Boronia dichotoma</i>			
238.	17665 <i>Boronia purdieana</i> subsp. <i>purdieana</i>			
239.	4438 <i>Boronia ramosa</i>			
240.	11381 <i>Boronia ramosa</i> subsp. <i>anethifolia</i>			
241.	1272 <i>Borya scirpoidea</i>			
242.	1273 <i>Borya sphaerocephala</i> (Pincushions)			
243.	24251 <i>Bos taurus</i> (European Cattle)	Y		
244.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)			
245.	6341 <i>Brachyloma preissii</i> (Globe Heath)			
246.	7878 <i>Brachyscome iberidifolia</i>			
247.	42380 <i>Brachyuropis fasciolatus</i> subsp. <i>fasciolatus</i> (Narrow-banded Shovel-nosed Snake)			
248.	42381 <i>Brachyuropis semifasciatus</i> (Southern Shovel-nosed Snake)			
249.	3000 <i>Brassica tournefortii</i> (Mediterranean Turnip)	Y		
250.	2995 <i>Brassica x napus</i>	Y		
251.	244 <i>Briza maxima</i> (Blowfly Grass)	Y		
252.	245 <i>Briza minor</i> (Shivery Grass)	Y		
253.	246 <i>Bromus alopecuroides</i>	Y		
254.	248 <i>Bromus catharticus</i> (Prairie Grass)	Y		
255.	249 <i>Bromus diandrus</i> (Great Brome)	Y		
256.	1366 <i>Bulbine semibarbata</i> (Leek Lily)			
257.	1383 <i>Burchardia bairdiae</i>			
258.	12770 <i>Burchardia congesta</i>			
259.	1385 <i>Burchardia multiflora</i> (Dwarf Burchardia)			
260.	24359 <i>Burhinus grallarius</i> (Bush Stone-curlew)			
261.	25713 <i>Cacatua galerita</i> (Sulphur-crested Cockatoo)			
262.	25714 <i>Cacatua pastinator</i> (Western Long-billed Corella)			
263.	25715 <i>Cacatua roseicapilla</i> (Galah)			
264.	25716 <i>Cacatua sanguinea</i> (Little Corella)			
265.	24729 <i>Cacatua tenuirostris</i> (Eastern Long-billed Corella)	Y		
266.	25598 <i>Cacomantis flabelliformis</i> (Fan-tailed Cuckoo)			
267.	42307 <i>Cacomantis pallidus</i> (Pallid Cuckoo)			
268.	1276 <i>Caesia micrantha</i> (Pale Grass Lily)			
269.	1277 <i>Caesia occidentalis</i>			
270.	15330 <i>Caladenia arenicola</i>			
271.	1586 <i>Caladenia discoidea</i> (Dancing Orchid)			
272.	1590 <i>Caladenia ferruginea</i> (Rusty Spider Orchid)			
273.	1592 <i>Caladenia flava</i> (Cowslip Orchid)			
274.	15348 <i>Caladenia flava</i> subsp. <i>flava</i>			
275.	15365 <i>Caladenia longicauda</i> subsp. <i>longicauda</i>			
276.	17760 <i>Caladenia nobilis</i>			
277.	15503 <i>Caladenia paludosa</i>			
278.	15377 <i>Caladenia reptans</i> subsp. <i>reptans</i>			
279.	2854 <i>Calandrinia granulifera</i> (Pygmy Purslane)			
280.	2856 <i>Calandrinia liniflora</i> (Parakeelya)			
281.	16365 <i>Calandrinia</i> sp. Kenwick (G.J. Keighery 10905)			
282.	1214 <i>Calectasia grandiflora</i> (Blue Tinsel Lily)			
283.	19309 <i>Calectasia narragara</i>			
284.	4717 <i>Callitriche stagnalis</i> (Common Starwort)	Y		
285.	36520 <i>Callitriche acuminata</i> (Dwarf Cypress)			
286.	36600 <i>Callitriche pyramidalis</i> (Swamp Cypress)			
287.	5411 <i>Calothamnus hirsutus</i>			
288.	5415 <i>Calothamnus lateralis</i>			
289.	35816 <i>Calothamnus quadrifidus</i> subsp. <i>quadrifidus</i>			
290.	5429 <i>Calothamnus sanguineus</i> (Silky-leaved Blood flower, Pindak)			
291.	16492 <i>Calycopeplus paucifolius</i>			
292.	25717 <i>Calyptorhynchus banksii</i> (Red-tailed Black-Cockatoo)			
293.	5439 <i>Calytrix angulata</i> (Yellow Starflower)			
294.	5441 <i>Calytrix aurea</i>			
295.	5458 <i>Calytrix flavescens</i> (Summer Starflower)			
296.	5476 <i>Calytrix sapphirina</i>			
297.	<i>Calytrix</i> sp.			
298.	32338 <i>Campylopus introflexus</i>	Y		
299.	30883 <i>Canis lupus</i> subsp. <i>familiaris</i> (Dog)	Y		
300.	754 <i>Carex divisa</i> (Divided Sedge)	Y		
301.	755 <i>Carex fascicularis</i> (Tassel Sedge)			
302.	1162 <i>Cartonema phylloides</i>			
303.	11351 <i>Cassytha aurea</i> var. <i>hirta</i>			
304.	2951 <i>Cassytha flava</i> (Dodder Laurel)			
305.	2952 <i>Cassytha glabella</i> (Tangled Dodder Laurel)			
306.	2957 <i>Cassytha racemosa</i> (Dodder Laurel)			

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307.	11799 <i>Cassynia racemosa forma racemosa</i>			
308.	18321 <i>Casuarina glauca</i>	Y		
309.	1742 <i>Casuarina obesa</i> (Swamp Sheoak, Kuli)			
310.	760 <i>Caustis dioica</i>			
311.	<i>Ceinidae sp.</i>			
312.	41564 <i>Cenchrus clandestinus</i> (Kikuyu Grass)	Y		
313.	41566 <i>Cenchrus longisetus</i> (Feathertop)	Y		
314.	41563 <i>Cenchrus purpureus</i> (Elephant Grass)	Y		
315.	7917 <i>Centaurea solstitialis</i> (St Barnaby's Thistle, Yellow Star Thistle)	Y		
316.	6539 <i>Centaureum erythraea</i> (Common Centaury)	Y		
317.	6542 <i>Centaureum tenuiflorum</i>	Y		
318.	6214 <i>Centella asiatica</i>			
319.	7918 <i>Centipeda cunninghamii</i> (Common Sneezewood, Gukwonderuk, Old Man Weed)			
320.	1121 <i>Centrolepis aristata</i> (Pointed Centrolepis)			
321.	1125 <i>Centrolepis drummondiana</i>			
322.	1129 <i>Centrolepis glabra</i> (Smooth Centrolepis)			
323.	1134 <i>Centrolepis polygyna</i> (Wiry Centrolepis)			
324.	<i>Ceratopogonidae sp.</i>			
325.	17685 <i>Chaetanthus aristatus</i>			
326.	24187 <i>Chalinolobus morio</i> (Chocolate Wattled Bat)			
327.	18156 <i>Chamaecytisus palmensis</i> (Tagasaste)	Y		
328.	1280 <i>Chamaescilla corymbosa</i> (Blue Squill)			
329.	11299 <i>Chamaescilla corymbosa var. corymbosa</i>			
330.	24377 <i>Charadrius ruficapillus</i> (Red-capped Plover)			
331.	1513 <i>Chasmanthe floribunda</i> (African Cornflag)	Y		
332.	3169 <i>Cheiranthra preissiana</i>			
333.	43380 <i>Chelodina colliei</i> (South-western Snake-necked Turtle)			
334.	24321 <i>Chenonetta jubata</i> (Australian Wood Duck, Wood Duck)			
335.	33939 <i>Cherax cainii</i> (Marron)			
336.	<i>Cherax destructor</i>			
337.	<i>Cherax quinquecarinatus</i>			
338.	<i>Chironominae sp.</i>			
339.	267 <i>Chloris gayana</i> (Rhodes Grass)	Y		
340.	7925 <i>Chondrilla juncea</i> (Skeleton Weed)	Y		
341.	763 <i>Chorizandra enodis</i> (Black Bristlerush)			
342.	764 <i>Chorizandra multiarticulata</i>			
343.	3753 <i>Chonzema dicksonii</i> (Yellow-eyed Flame Pea)			
344.	24980 <i>Christinus marmoratus</i> (Marbled Gecko)			
345.	<i>Chroicocephalus novaehollandiae</i>			
346.	25601 <i>Chrysococcyx lucidus</i> (Shining Bronze Cuckoo)			
347.	7933 <i>Chthonocephalus pseudevax</i> (Woolly Groundheads)			
348.	6543 <i>Cicendia filiformis</i> (Slender Cicendia)	Y		
349.	24288 <i>Circus approximans</i> (Swamp Harrier)			
350.	7370 <i>Citrullus lanatus</i> (Pie Melon)	Y		
351.	24774 <i>Cladorhynchus leucocephalus</i> (Banded Stilt)			
352.	<i>Cleidopus gloriamaris</i>			
353.	25675 <i>Colluricincla harmonica</i> (Grey Shrike-thrush)			
354.	32999 <i>Colocasia esculenta var. esculenta</i>	Y		
355.	24399 <i>Columba livia</i> (Domestic Pigeon)	Y		
356.	4550 <i>Comesperma calymega</i> (Blue-spike Milkwort)			
357.	4551 <i>Comesperma ciliatum</i>			
358.	4559 <i>Comesperma polygaloides</i> (Small Milkwort)			
359.	4564 <i>Comesperma virgatum</i> (Milkwort)			
360.	48634 <i>Commersonia corniculata</i>			
361.	15041 <i>Conospermum canaliculatum</i>			
362.	15516 <i>Conospermum canaliculatum subsp. canaliculatum</i>			
363.	16853 <i>Conospermum capitatum subsp. glabratum</i>			
364.	1875 <i>Conospermum huegelii</i> (Slender Smokebush)			
365.	1882 <i>Conospermum stoechadis</i> (Common Smokebush)			
366.	1885 <i>Conospermum triplinervium</i> (Tree Smokebush)			
367.	6347 <i>Conostephium minus</i> (Pink-tipped Pearl flower)			
368.	6348 <i>Conostephium pendulum</i> (Pearl Flower)			
369.	6349 <i>Conostephium preissii</i>			
370.	1418 <i>Conostylis aculeata</i> (Prickly Conostylis)			
371.	11513 <i>Conostylis aculeata subsp. cygnorum</i>			
372.	1423 <i>Conostylis aurea</i> (Golden Conostylis)			
373.	11438 <i>Conostylis candicans subsp. candicans</i>			
374.	1429 <i>Conostylis caricina</i>			
375.	11695 <i>Conostylis festucacea subsp. festucacea</i>			
376.	1436 <i>Conostylis juncea</i>			

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377.	1454 <i>Conostylis setigera</i> (Bristly Cottonhead)			
378.	11597 <i>Conostylis setigera</i> subsp. <i>setigera</i>			
379.	5502 <i>Conothamnus trinervis</i>			
380.	7939 <i>Conyza bonariensis</i> (Flaxleaf Fleabane)	Y		
381.	7941 <i>Conyza parva</i>	Y		
382.	20074 <i>Conyza sumatrensis</i>	Y		
383.	<i>Coprinus comatus</i>			
384.	25568 <i>Coracina novaehollandiae</i> (Black-faced Cuckoo-shrike)			
385.	24362 <i>Coracina novaehollandiae</i> subsp. <i>novaehollandiae</i> (Black-faced Cuckoo-shrike)			
386.	<i>Cormocephalus aurantipes</i>			
387.	<i>Cormocephalus novaehollandiae</i>			
388.	<i>Cormocephalus rubriceps</i>			
389.	2891 <i>Corrigiola litoralis</i> (Strapwort)	Y		
390.	38774 <i>Cortinarius archeri</i>			
391.	<i>Cortinarius sublargus</i>			
392.	25592 <i>Corvus coronoides</i> (Australian Raven)			
393.	17104 <i>Corymbia calophylla</i> (Marri)			
394.	7943 <i>Cotula australis</i> (Common Cotula)			
395.	7944 <i>Cotula bipinnata</i> (Ferny Cotula)	Y		
396.	7945 <i>Cotula coronopifolia</i> (Waterbuttons)	Y		
397.	7946 <i>Cotula cotuloides</i> (Smooth Cotula)			
398.	7947 <i>Cotula turbinata</i> (Funnel Weed)	Y		
399.	24420 <i>Cracticus nigrogularis</i> (Pied Butcherbird)			
400.	25595 <i>Cracticus tibicen</i> (Australian Magpie)			
401.	24422 <i>Cracticus tibicen</i> subsp. <i>dorsalis</i> (White-backed Magpie)			
402.	25596 <i>Cracticus torquatus</i> (Grey Butcherbird)			
403.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			
404.	11709 <i>Crassula colorata</i> var. <i>acuminata</i>			
405.	11563 <i>Crassula colorata</i> var. <i>colorata</i>			
406.	3138 <i>Crassula decumbens</i> (Rufous Stonecrop)			
407.	3142 <i>Crassula natans</i>	Y		
408.	15706 <i>Crassula natans</i> var. <i>minus</i>	Y		
409.	38780 <i>Crepidotus eucalyptorum</i>			
410.	25398 <i>Crinia georgiana</i> (Quacking Frog)			
411.	25399 <i>Crinia glauerti</i> (Clicking Frog)			
412.	25400 <i>Crinia insignifera</i> (Squelching Froglet)			
413.	13527 <i>Croninia kingiana</i>			
414.	13470 <i>Cryptandra arbutiflora</i> var. <i>arbutiflora</i>			
415.	4809 <i>Cryptandra pungens</i>			
416.	4810 <i>Cryptandra scoparia</i>			
417.	30893 <i>Cryptoblepharus buchananii</i>			
418.	25020 <i>Cryptoblepharus plagiocephalus</i>			
419.	30899 <i>Ctenophorus adelaidensis</i> (Southern Heath Dragon, Western Heath Dragon)			
420.	25027 <i>Ctenotus australis</i>			
421.	25039 <i>Ctenotus fallens</i>			
422.	25040 <i>Ctenotus gemmula</i> (Jewelled South-west Ctenotus (Swan Coastal Plain subpop P3), skink)			
423.	25049 <i>Ctenotus labillardieri</i>			
424.	6663 <i>Cuscuta epithymum</i> (Lesser Dodder, Greater Dodder)	Y		
425.	11021 <i>Cuscuta planiflora</i>	Y		
426.	15114 <i>Cyanicula gemmata</i>			
427.	768 <i>Cyathochaeta avenacea</i>			
428.	769 <i>Cyathochaeta clandestina</i>			
429.	40661 <i>Cycnogeton lineare</i>			
430.	24322 <i>Cygnus atratus</i> (Black Swan)			
431.	283 <i>Cynodon dactylon</i> (Couch)	Y		
432.	783 <i>Cyperus congestus</i> (Dense Flat-sedge)	Y		
433.	18318 <i>Cyperus involucratus</i>	Y		
434.	18198 <i>Cyperus papyrus</i>	Y		
435.	806 <i>Cyperus polystachyos</i> (Bunchy Sedge)			
436.	815 <i>Cyperus tenellus</i> (Tiny Flatsedge)	Y		
437.	816 <i>Cyperus tenuiflorus</i> (Scaly Sedge)	Y		
438.	17692 <i>Cytogonidium leptocarpoides</i>			
439.	30901 <i>Dacelo novaeguineae</i> (Laughing Kookaburra)	Y		
440.	7454 <i>Dampiera linearis</i> (Common Dampiera)			
441.	7462 <i>Dampiera pedunculata</i>			
442.	7484 <i>Dampiera trigona</i> (Angled-stem Dampiera)			
443.	25673 <i>Daphnoenopsis chrysoptera</i> (Varied Sittella)			
444.	1218 <i>Dasypogon bromeliifolius</i> (Pineapple Bush)			
445.	1220 <i>Dasypogon obliquifolius</i>			

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446.	6218 <i>Daucus glochidiatus</i> (Australian Carrot)			
447.	3793 <i>Daviesia angulata</i>			
448.	19747 <i>Daviesia decurrens</i> subsp. <i>decurrens</i>			
449.	18560 <i>Daviesia divaricata</i> subsp. <i>divaricata</i>			
450.	16585 <i>Daviesia nudiflora</i> subsp. <i>nudiflora</i>			
451.	3832 <i>Daviesia physodes</i>			
452.	3845 <i>Daviesia triflora</i>			
453.	25766 <i>Delma fraseri</i> (Fraser's Legless Lizard)			
454.	24999 <i>Delma grayii</i>			
455.	25296 <i>Demansia psammophis</i> subsp. <i>reticulata</i> (Yellow-faced Whipsnake)			
456.	25325 <i>Dendrelaphis punctulata</i> (Green Tree Snake)			
457.	<i>Dermocybe clelandii</i>			
458.	38784 <i>Descomyces albus</i>			
459.	17691 <i>Desmocladius fasciculatus</i>			
460.	16595 <i>Desmocladius flexuosus</i>			
461.	46362 <i>Desmocladius lateriflorus</i>			
462.	25607 <i>Dicaeum hirundinaceum</i> (Mistletoebird)			
463.	6616 <i>Dichondra repens</i> (Kidney Weed)			
464.	1289 <i>Dichopogon preissii</i>			
465.	39026 <i>Didymium verrucosporum</i>			
466.	<i>Dingosa murata</i>			
467.	<i>Dingosa serrata</i>			
468.	1509 <i>Dioscorea hastifolia</i> (Warrine, Warrarn)			
469.	48378 <i>Diplachne fusca</i> subsp. <i>fusca</i>			
470.	24939 <i>Diplodactylus polyophthalmus</i>			
471.	18589 <i>Diplopeltis huegelii</i> subsp. <i>lehmannii</i>			
472.	19649 <i>Disa bracteata</i>	Y		
473.	7961 <i>Dittrichia graveolens</i> (Stinkwort)	Y		
474.	11049 <i>Diuris corymbosa</i>			
475.	1634 <i>Diuris laxiflora</i> (Bee Orchid)			
476.	1640 <i>Drakaea glyptodon</i> (King-in-his-carriage)			
477.	3091 <i>Drosera bulbigena</i> (Midget Sundew)			
478.	3095 <i>Drosera erythrorhiza</i> (Red Ink Sundew)			
479.	13217 <i>Drosera erythrorhiza</i> subsp. <i>erythrorhiza</i>			
480.	3097 <i>Drosera gigantea</i> (Giant Sundew)			
481.	3098 <i>Drosera glanduligera</i> (Pimpernel Sundew)			
482.	13195 <i>Drosera helodes</i>			
483.	3101 <i>Drosera heterophylla</i> (Swamp Rainbow)			
484.	3106 <i>Drosera macrantha</i> (Bridal Rainbow)			
485.	14298 <i>Drosera macrantha</i> subsp. <i>macrantha</i>			
486.	3109 <i>Drosera menziesii</i> (Pink Rainbow)			
487.	11853 <i>Drosera menziesii</i> subsp. <i>menziesii</i>			
488.	48709 <i>Drosera minutiflora</i>			
489.	11768 <i>Drosera neesii</i> subsp. <i>neesii</i>			
490.	3114 <i>Drosera nitidula</i> (Shining Sundew)			
491.	3115 <i>Drosera occidentalis</i> (Western Sundew)			
492.	29178 <i>Drosera porrecta</i>			
493.	3128 <i>Drosera ramellosa</i> (Branched Sundew)			
494.	8911 <i>Drosera rosulata</i>			
495.	<i>Drosera</i> sp.			
496.	3131 <i>Drosera stolonifera</i> (Leafy Sundew)			
497.	13205 <i>Drosera tubaestylis</i>			
498.	3135 <i>Drosera zonaria</i> (Painted Sundew)			
499.	33500 <i>Dysphania ambrosioides</i> (Mexican Tea)	Y		
500.	<i>Dytiscidae</i> sp.			
501.	7374 <i>Echballium elaterium</i> (Squirting Cucumber)	Y		
502.	328 <i>Echinochloa colona</i> (Awnless Barnyard Grass)	Y		
503.	11105 <i>Echinochloa crus-galli</i>	Y		
504.	329 <i>Echinochloa crus-pavonis</i> (South American Barnyard Grass)	Y		
505.	337 <i>Echinochloa pyramidalis</i> (Antelope Grass)	Y		
506.	8450 <i>Eclipta prostrata</i>	Y		
507.	<i>Egretta garzetta</i>			
508.	<i>Egretta novaehollandiae</i>			
509.	347 <i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
510.	349 <i>Ehrharta longiflora</i> (Annual Veldt Grass)	Y		
511.	<i>Ehrharta</i> sp.			
512.	<i>Elanus axillaris</i>			
513.	25540 <i>Elanus caeruleus</i> (Black-shouldered Kite)			
514.	24290 <i>Elanus caeruleus</i> subsp. <i>axillaris</i> (Australian Black-shouldered Kite)			
515.	25250 <i>Elapognathus coronatus</i> (Crowned Snake)			



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516.	5187 <i>Elatine gratioloides</i> (Waterwort)			
517.	822 <i>Eleocharis acuta</i> (Common Spikerush)			
518.	352 <i>Eleusine coracana</i> (Indian Millet)	Y		
519.	353 <i>Eleusine indica</i> (Crowsfoot Grass)	Y		
520.	47937 <i>Eileyornis melanops</i> (Black-fronted Dotterel)			
521.	1643 <i>Elythranthera brunonis</i> (Purple Enamel Orchid)			
522.	1644 <i>Elythranthera emarginata</i> (Pink Enamel Orchid)			
523.	39030 <i>Enerthenema papillatum</i>			
524.	<i>Eolophus roseicapillus</i>			
525.	24651 <i>Eopsaltria australis</i> subsp. <i>griseogularis</i> (Western Yellow Robin)			
526.	1645 <i>Epiblema grandiflorum</i> (Babe-in-a-cradle)			
527.	6132 <i>Epilobium ciliatum</i>	Y		
528.	6133 <i>Epilobium hirtigerum</i> (Hairy Willow Herb)			
529.	14289 <i>Epilobium tetragonum</i> subsp. <i>tetragonum</i>	Y		
530.	374 <i>Eragrostis cilianensis</i> (Stinkgrass)	Y		
531.	376 <i>Eragrostis curvula</i> (African Lovegrass)	Y		
532.	379 <i>Eragrostis elongata</i> (Clustered Lovegrass)			
533.	5540 <i>Eremaea fimbriata</i>			
534.	5541 <i>Eremaea pauciflora</i>			
535.	14104 <i>Eremaea pauciflora</i> var. <i>pauciflora</i>			
536.	15415 <i>Eriochilus scaber</i> subsp. <i>scaber</i>			
537.	<i>Eriophora biapicata</i>			
538.	4332 <i>Erodium botrys</i> (Long Storksbill)	Y		
539.	4335 <i>Erodium cygnorum</i> (Blue Heronsbill)			
540.	48633 <i>Erythrina crista-galli</i>	Y		Y
541.	18299 <i>Erythrina x sykesii</i>	Y		
542.	24379 <i>Erythronys cinctus</i> (Red-kneed Dotterel)			
543.	5580 <i>Eucalyptus camaldulensis</i> (River Gum, Yabalinyba)			
544.	13547 <i>Eucalyptus marginata</i> subsp. <i>marginata</i> (Jarrah)			
545.	13511 <i>Eucalyptus rudis</i> subsp. <i>rudis</i>			
546.	3872 <i>Euchloopsis linearis</i> (Swamp Pea)			
547.	29940 <i>Euphorbia maculata</i>	Y		
548.	34757 <i>Euphorbia prostrata</i>	Y		
549.	4648 <i>Euphorbia terracina</i> (Geraldton Carnation Weed)	Y		
550.	<i>Eurytion incisunguis</i>			Y
551.	3880 <i>Eutaxia virgata</i>			
552.	25621 <i>Falco bengora</i> (Brown Falcon)			
553.	25622 <i>Falco cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
554.	24472 <i>Falco cenchroides</i> subsp. <i>cenchroides</i> (Australian Kestrel, Nankeen Kestrel)			
555.	25623 <i>Falco longipennis</i> (Australian Hobby)			
556.	24041 <i>Felis catus</i> (Cat)	Y		
557.	11445 <i>Ferraria crispa</i> subsp. <i>crispa</i>	Y		
558.	430 <i>Festuca arundinacea</i> (Tall Fescue)	Y		
559.	20216 <i>Ficinia nodosa</i> (Knotted Club Rush)			
560.	894 <i>Fimbristylis velata</i>			
561.	<i>Fomitopsis illacinogilva</i>			
562.	25727 <i>Fulica atra</i> (Eurasian Coot)			
563.	24761 <i>Fulica atra</i> subsp. <i>australis</i> (Eurasian Coot)			
564.	39033 <i>Fullgo septica</i>			
565.	8365 <i>Fumaria bastardii</i>	Y		
566.	2969 <i>Fumaria capreolata</i> (Whiteflower Fumitory)	Y		
567.	31532 <i>Fumaria muralis</i> subsp. <i>muralis</i>	Y		
568.	<i>Fumaria</i> sp.			
569.	907 <i>Gahnia trifida</i> (Coast Saw-sedge)			
570.	34028 <i>Galaxias occidentalis</i> (Western Minnow)			
571.	7976 <i>Galinsoga parviflora</i> (Potato Weed)	Y		
572.	25729 <i>Gallinula tenebrosa</i> (Dusky Moorhen)			
573.	24763 <i>Gallinula tenebrosa</i> subsp. <i>tenebrosa</i> (Dusky Moorhen)			
574.	25730 <i>Gallirallus philippensis</i> (Buff-banded Rail)			
575.	24765 <i>Gallirallus philippensis</i> subsp. <i>mellori</i> (Buff-banded Rail)			
576.	<i>Gallus gallus</i>			
577.	20346 <i>Gamochaeta coarctata</i>	Y		
578.	3887 <i>Gastrolobium acutum</i>			
579.	20475 <i>Gastrolobium capitatum</i>			
580.	20473 <i>Gastrolobium ebracteolatum</i>			
581.	20483 <i>Gastrolobium linearifolium</i>			
582.	42314 <i>Gavicalis virescens</i> (Singing Honeyeater)			
583.	16311 <i>Gazania linearis</i>	Y		
584.	4339 <i>Geranium molle</i> (Dove's Foot Cranesbill)	Y		
585.	25530 <i>Gerygone fusca</i> (Western Gerygone)			



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586.	1518 <i>Gladiolus angustus</i> (Long Tubed Painted Lady)	Y		
587.	1520 <i>Gladiolus caryophyllaceus</i> (Wild Gladiolus)	Y		
588.	7061 <i>Glossostigma drummondii</i> (Mudmat)			
589.	17043 <i>Glyceria declinata</i>	Y		
590.	47962 <i>Glyciphila melanops</i> (Tawny-crowned Honeyeater)			
591.	7991 <i>Gnephosis drummondii</i>			
592.	8002 <i>Gnephosis tenuissima</i>			
593.	6587 <i>Gomphocarpus fruticosus</i> (Narrowleaf Cottonbush)	Y		
594.	3945 <i>Gompholobium aristatum</i>			
595.	10909 <i>Gompholobium confertum</i>			
596.	3951 <i>Gompholobium marginatum</i>			
597.	3956 <i>Gompholobium shuttleworthii</i>			
598.	3957 <i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			
599.	6149 <i>Gonocarpus cordiger</i>			
600.	6159 <i>Gonocarpus nodulosus</i>			
601.	6160 <i>Gonocarpus paniculatus</i>			
602.	6161 <i>Gonocarpus pithyoides</i>			
603.	29362 <i>Goodenia coerulea</i>			
604.	7517 <i>Goodenia incana</i> (Hoary Goodenia)			
605.	12551 <i>Goodenia micrantha</i>			
606.	7538 <i>Goodenia pulchella</i>			
607.	19286 <i>Goodenia pulchella</i> subsp. Coastal Plain A (M. Hislop 634)			
608.	19284 <i>Goodenia pulchella</i> subsp. Coastal Plain B (L.W. Sage 2336)			
609.	24443 <i>Grallina cyanoleuca</i> (Magpie-lark)			
610.	14282 <i>Gratiola pubescens</i>			
611.	1964 <i>Grevillea bipinnatifida</i> (Fuchsia Grevillea)			
612.	19628 <i>Grevillea bipinnatifida</i> subsp. <i>bipinnatifida</i>			
613.	15839 <i>Grevillea preissii</i> subsp. <i>preissii</i>			
614.	<i>Gripopterygidae</i> sp.			
615.	<i>Gymnopilus allantopus</i>			
616.	<i>Gymnopilus purpuratus</i>			
617.	24487 <i>Haematopus longirostris</i> (Pied Oystercatcher)			
618.	1464 <i>Haemodorum brevisepalum</i>			
619.	1468 <i>Haemodorum laxum</i>			
620.	1472 <i>Haemodorum simplex</i>			
621.	1474 <i>Haemodorum sparsiflorum</i>			
622.	1475 <i>Haemodorum spicatum</i> (Mardja)			
623.	2136 <i>Hakea candolleana</i>			
624.	2137 <i>Hakea ceratophylla</i> (Horned Leaf Hakea)			
625.	2143 <i>Hakea conchifolia</i> (Shell-leaved Hakea)			
626.	2158 <i>Hakea erinacea</i> (Hedge-hog Hakea)			
627.	2166 <i>Hakea incrassata</i> (Marble Hakea)			
628.	2175 <i>Hakea lissocarpha</i> (Honey Bush)			
629.	2197 <i>Hakea prostrata</i> (Harsh Hakea)			
630.	2203 <i>Hakea ruscifolia</i> (Candle Hakea)			
631.	31793 <i>Hakea</i> sp. Eastern coastal plain (G.J. Keighery 8014)			
632.	2212 <i>Hakea sulcata</i> (Furrowed Hakea)			
633.	2214 <i>Hakea trifurcata</i> (Two-leaf Hakea)			
634.	2215 <i>Hakea undulata</i> (Wavy-leaved Hakea)			
635.	2216 <i>Hakea varia</i> (Variable-leaved Hakea)			
636.	24295 <i>Haliastur sphenurus</i> (Whistling Kite)			
637.	3961 <i>Hardenbergia comptoniana</i> (Native Wisteria)			
638.	<i>Hebridae</i> sp.			
639.	25410 <i>Heleioporus eyrei</i> (Moaning Frog)			
640.	8008 <i>Helianthus annuus</i> (Sunflower, Common Sunflower)	Y		
641.	3016 <i>Heliophila pusilla</i>	Y		
642.	16933 <i>Hemiandra glabra</i>			
643.	6839 <i>Hemiandra pungens</i> (Snakebush)			
644.	<i>Hemicordulidiidae</i> sp.			
645.	25119 <i>Hemiergis quadrilineata</i>			
646.	41020 <i>Hemiphora bartlingii</i> (Woolly Dragon)			
647.	41042 <i>Hemiphora uncinata</i>			
648.	<i>Henicops dentatus</i>			
649.	1293 <i>Hensmania turbinata</i>			
650.	1526 <i>Hesperanthera falcata</i>	Y		
651.	24961 <i>Heteronotia binoei</i> (Bynoe's Gecko)			
652.	<i>Hexagonia vesparia</i>			
653.	5112 <i>Hibbertia aurea</i>			
654.	5114 <i>Hibbertia commutata</i>			
655.	5134 <i>Hibbertia huegelii</i>			

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656.	5135 <i>Hibbertia hypericoides</i> (Yellow Buttercups)			
657.	45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			
658.	5148 <i>Hibbertia mylnei</i>			
659.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)			
660.	5172 <i>Hibbertia stellaris</i> (Orange Stars)			
661.	48381 <i>Hibbertia striata</i>			
662.	47965 <i>Hieraaetus morphnoides</i> (Little Eagle)			
663.	25734 <i>Himantopus himantopus</i> (Black-winged Stilt)			
664.	24491 <i>Hirundo neoxena</i> (Welcome Swallow)			
665.	<i>Hogna crispipes</i>			
666.	<i>Holasteron perth</i>			
667.	<i>Holasteron wamuseum</i>			Y
668.	<i>Holocnemus plucheii</i>			
669.	6222 <i>Homalosciadium homalocarpum</i>			
670.	448 <i>Hordeum glaucum</i> (Northern Barley Grass)	Y		
671.	449 <i>Hordeum leporinum</i> (Barley Grass)	Y		
672.	450 <i>Hordeum marinum</i>	Y		
673.	3966 <i>Hovea pungens</i> (Devil's Pins, Puyenak)			
674.	3968 <i>Hovea trisperma</i> (Common Hovea)			
675.	12859 <i>Hovea trisperma</i> var. <i>trisperma</i>			
676.	12741 <i>Hyalosperma cotula</i>			
677.	5216 <i>Hybanthus calycinus</i> (Wild Violet)			
678.	166 <i>Hydrilla verticillata</i> (Water Thyme)			
679.	6223 <i>Hydrocotyle alata</i>			
680.	6226 <i>Hydrocotyle callicarpa</i> (Small Pennywort)			
681.	6229 <i>Hydrocotyle diantha</i>			
682.	6238 <i>Hydrocotyle ranunculoides</i>	Y		
683.	<i>Hydrophilidae</i> sp.			
684.	<i>Hygrocybe astatogala</i>			
685.	452 <i>Hyparrhenia hirta</i> (Tambookie Grass)	Y		
686.	5817 <i>Hypocalymma angustifolium</i> (White Myrtle, Kudjid)			
687.	5825 <i>Hypocalymma robustum</i> (Swan River Myrtle)			
688.	8086 <i>Hypochaeris glabra</i> (Smooth Catsear)	Y		
689.	9352 <i>Hypochaeris radicata</i> (Flat Weed, Cats-ear)	Y		
690.	1070 <i>Hypolaena exsulca</i>			
691.	17841 <i>Hypolaena pubescens</i>			
692.	<i>Idiomata blackwallii</i>			
693.	<i>Idiosoma hirsutum</i>			
694.	48552 <i>Inocybe tomentipes</i>			
695.	38799 <i>Inocybe violaceocaulis</i>			
696.	6620 <i>Ipomoea cairica</i> (Coast Morning Glory)	Y		
697.	11 <i>Isoetes drummondii</i> (Quillwort)			
698.	910 <i>Isolepis cernua</i> (Nodding Club-rush)			
699.	20199 <i>Isolepis cernua</i> var. <i>cernua</i>			
700.	20200 <i>Isolepis cernua</i> var. <i>setiformis</i>			
701.	912 <i>Isolepis cyperoides</i>			
702.	914 <i>Isolepis hookeriana</i> (Bristle Club Rush)			
703.	14540 <i>Isolepis hystrix</i>	Y		
704.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
705.	919 <i>Isolepis oldfieldiana</i>			
706.	10831 <i>Isolepis prolifera</i> (Budding Club-rush)	Y		
707.	924 <i>Isolepis stellata</i> (Star Club-rush)			
708.	<i>Isopeda leishmannii</i>			
709.	2221 <i>Isopogon asper</i>			
710.	2229 <i>Isopogon dubius</i> (Pincushion Coneflower)			
711.	7396 <i>Isotoma hypocrateriformis</i> (Woodbridge Poison)			
712.	7398 <i>Isotoma pusilla</i> (Small Isotome)			
713.	7399 <i>Isotoma scapigera</i> (Long-scaped Isotome)			
714.	19700 <i>Isotropis cuneifolia</i> subsp. <i>cuneifolia</i>			
715.	1532 <i>Ixia maculata</i> (Yellow Ixia)	Y		
716.	3998 <i>Jacksonia angulata</i>			
717.	4010 <i>Jacksonia floribunda</i> (Holly Pea)			
718.	4012 <i>Jacksonia furcellata</i> (Grey Stinkwood)			
719.	4018 <i>Jacksonia lehmannii</i>			
720.	4029 <i>Jacksonia sternbergiana</i> (Stinkwood, Kapur)			
721.	1298 <i>Johnsonia pubescens</i> (Pipe Lily)			
722.	19632 <i>Johnsonia pubescens</i> subsp. <i>pubescens</i>			
723.	1178 <i>Juncus bufonius</i> (Toad Rush)	Y		
724.	1180 <i>Juncus capitatus</i> (Capitate Rush)	Y		
725.	11922 <i>Juncus kraussii</i> subsp. <i>australiensis</i>			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
726.	1186 <i>Juncus microcephalus</i>	Y		
727.	1188 <i>Juncus pallidus</i> (Pale Rush)			
728.	1189 <i>Juncus pauciflorus</i> (Loose Flower Rush)			
729.	1196 <i>Juncus usitatus</i> (Common Rush)	Y		
730.	<i>Kangarosa properipes</i>			
731.	<i>Karaops jarrit</i>			
732.	4044 <i>Kennedia prostrata</i> (Scarlet Runner)			
733.	7068 <i>Kickxia spuria</i> (Roundleaf Toadflax)	Y		
734.	1221 <i>Kingia australis</i> (Kingia, Pulonok)			
735.	5832 <i>Kunzea ericifolia</i> (Spearwood, Pondil)			
736.	5835 <i>Kunzea micrantha</i>			
737.	17461 <i>Kunzea micrantha</i> subsp. <i>micrantha</i>			
738.	3669 <i>Labichea punctata</i> (Lance-leaved Cassia)			
739.	16091 <i>Lachenalia bulbifera</i>	Y		
740.	1370 <i>Lachenalia reflexa</i>	Y		
741.	20019 <i>Lachnagrostis filiformis</i>			
742.	19955 <i>Lachnagrostis plebeia</i>			
743.	38804 <i>Lactarius eucalypti</i>			
744.	8095 <i>Lactuca saligna</i> (Wild Lettuce, Willow-leaf Lettuce)	Y		
745.	29046 <i>Lactuca serriola</i> forma <i>serriola</i>	Y		
746.	<i>Laetiporus portentosus</i>			
747.	14646 <i>Lagunaria patersonia</i>	Y		
748.	2249 <i>Lambertia multiflora</i> (Many-flowered Honeysuckle)			
749.	14083 <i>Lambertia multiflora</i> var. <i>darlingensis</i>			
750.	<i>Lampona cylindrata</i>			
751.	28342 <i>Landoltia punctata</i> (Thin Duckweed)			
752.	6733 <i>Lantana camara</i> (Common Lantana)	Y		
753.	25637 <i>Larus novaehollandiae</i> (Silver Gull)			
754.	24511 <i>Larus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Silver Gull)			
755.	4052 <i>Latrobea tenella</i>			
756.	<i>Latrodectus hasseltii</i>			
757.	4959 <i>Lawrenxia squamata</i>			
758.	1307 <i>Laxmannia ramosa</i> (Branching Lily)			
759.	11911 <i>Laxmannia ramosa</i> subsp. <i>ramosa</i>			
760.	11464 <i>Laxmannia sessiliflora</i> subsp. <i>australis</i>			
761.	1309 <i>Laxmannia squarrosa</i>			
762.	7572 <i>Lechenaultia expansa</i>			
763.	1051 <i>Lemna disperma</i> (Duckweed)			
764.	38805 <i>Lentinellus pulvinulus</i>			
765.	8099 <i>Leontodon saxatilis</i> (Hairy Hawkbit)	Y		
766.	925 <i>Lepidosperma angustatum</i>			
767.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
768.	940 <i>Lepidosperma pubisquamum</i>			
769.	944 <i>Lepidosperma scabrum</i>			
770.	<i>Lepidosperma</i> sp.			
771.	29150 <i>Lepidosperma</i> sp. Margaret River (B.J. Lepschi 1841)			
772.	1653 <i>Leporella fimbriata</i> (Hare Orchid)			
773.	1077 <i>Leptocarpus canus</i> (Hoary Twine-rush)			
774.	1078 <i>Leptocarpus coangustatus</i>			
775.	46375 <i>Leptocarpus decipiens</i>			
776.	46380 <i>Leptocarpus kraussii</i>			
777.	46382 <i>Leptocarpus roycei</i>			
778.	<i>Leptoceridae</i> sp.			
779.	2344 <i>Leptomeria empetriformis</i>			
780.	2350 <i>Leptomeria pauciflora</i> (Sparse-flowered Currant Bush)			
781.	1085 <i>Lepyrodia glauca</i>			
782.	1088 <i>Lepyrodia macra</i> (Large Scale Rush)			
783.	1090 <i>Lepyrodia muirii</i>			
784.	25133 <i>Lerista elegans</i>			
785.	25148 <i>Lerista lineopunctulata</i>			
786.	25165 <i>Lerista praepedita</i>			
787.	6374 <i>Leucopogon conostephioides</i>			
788.	6434 <i>Leucopogon polymorphus</i>			
789.	6439 <i>Leucopogon pulchellus</i> (Beard-heath)			
790.	6444 <i>Leucopogon sprengeioides</i>			
791.	6445 <i>Leucopogon squarrosus</i>			
792.	40803 <i>Leucopogon squarrosus</i> subsp. <i>squarrosus</i>			
793.	6447 <i>Leucopogon strictus</i>			
794.	7674 <i>Levenhookia preissii</i> (Preiss's Stylewort)			
795.	7676 <i>Levenhookia pusilla</i> (Midget Stylewort)			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
796.	7677 <i>Levenhookia stipitata</i> (Common Stylewort)			
797.	25005 <i>Lialis burtonis</i>			
798.	25661 <i>Lichmera indistincta</i> (Brown Honeyeater)			
799.	24582 <i>Lichmera indistincta</i> subsp. <i>indistincta</i> (Brown Honeyeater)			
800.	25415 <i>Limnodynastes dorsalis</i> (Western Banjo Frog)			
801.	7075 <i>Linaria maroccana</i>	Y		
802.	4363 <i>Linum trigynum</i> (French Flax)	Y		
803.	36160 <i>Liparophyllum capitatum</i>			
804.	25378 <i>Litoria adelaidensis</i> (Slender Tree Frog)			
805.	25388 <i>Litoria moorei</i> (Motorbike Frog)			
806.	9289 <i>Lobelia anceps</i> (Angled Lobelia)			
807.	7402 <i>Lobelia gibbosa</i> (Tall Lobelia)			
808.	7406 <i>Lobelia rhombifolia</i> (Tufted Lobelia)			
809.	7407 <i>Lobelia rhytidosperra</i> (Wrinkled-seeded Lobelia)			
810.	7408 <i>Lobelia tenuior</i> (Slender Lobelia)			
811.	3048 <i>Lobularia maritima</i> (Sweet Alyssum)	Y		
812.	475 <i>Lolium multiflorum</i> (Italian Ryegrass)	Y		
813.	478 <i>Lolium rigidum</i> (Wimmera Ryegrass)	Y		
814.	11384 <i>Lolium temulentum</i> forma <i>temulentum</i>	Y		
815.	11073 <i>Lolium x hybridum</i>	Y		
816.	1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)			
817.	1228 <i>Lomandra hermaphrodita</i>			
818.	1232 <i>Lomandra micrantha</i> (Small-flower Mat-rush)			
819.	14542 <i>Lomandra micrantha</i> subsp. <i>micrantha</i>			
820.	1234 <i>Lomandra nigricans</i>			
821.	1236 <i>Lomandra odora</i> (Tiered Matrush)			
822.	1239 <i>Lomandra preissii</i>			
823.	1240 <i>Lomandra purpurea</i> (Purple Mat Rush)			
824.	1243 <i>Lomandra sericea</i> (Silky Mat Rush)			
825.	1246 <i>Lomandra suaveolens</i>			
826.	<i>Longepi woodman</i>			
827.	<i>Lophoictinia isura</i>			
828.	8564 <i>Lotus subbiflorus</i>	Y		
829.	42414 <i>Lucasium alboguttatum</i>			
830.	44680 <i>Ludwigia repens</i>	Y		
831.	<i>Lycosa godeffroyi</i>			
832.	1097 <i>Lyginia barbata</i>			
833.	18049 <i>Lyginia imberbis</i>			
834.	1656 <i>Lyperanthus serratus</i> (Rattle Beak Orchid)			
835.	2396 <i>Lysiana casuarinae</i>			
836.	36375 <i>Lysimachia arvensis</i> (Pimpernel)	Y		
837.	36373 <i>Lysimachia minima</i>	Y		
838.	6456 <i>Lysinema ciliatum</i> (Curry Flower)			
839.	34736 <i>Lysinema pentapetalum</i>			
840.	5281 <i>Lythrum hyssopifolia</i> (Lesser Loosestrife)	Y		
841.	2839 <i>Macarthuria australis</i>			
842.	4070 <i>Macroptilium atropurpureum</i> (Purple Bean)	Y		
843.	24326 <i>Malacorhynchus membranaceus</i> (Pink-eared Duck)			
844.	25651 <i>Malurus lamberti</i> (Variegated Fairy-wren)			
845.	25654 <i>Malurus splendens</i> (Splendid Fairy-wren)			
846.	24583 <i>Manorina flavigula</i> (Yellow-throated Miner)			
847.	<i>Maratus pavonis</i>			
848.	4079 <i>Medicago polymorpha</i> (Burr Medic)	Y		
849.	4080 <i>Medicago sativa</i> (Alfalfa)	Y		
850.	25758 <i>Megalurus gramineus</i> (Little Grassbird)			
851.	20639 <i>Megathyrus maximus</i> var. <i>maximus</i>	Y		
852.	37580 <i>Melaleuca acutifolia</i>			
853.	5881 <i>Melaleuca brevifolia</i>			
854.	40780 <i>Melaleuca citrina</i>	Y		
855.	13273 <i>Melaleuca incana</i> subsp. <i>incana</i>			
856.	5926 <i>Melaleuca lateritia</i> (Robin Redbreast Bush)			
857.	20297 <i>Melaleuca osullivanii</i>			
858.	18394 <i>Melaleuca parviceps</i>			
859.	5952 <i>Melaleuca preissiana</i> (Moonah)			
860.	5959 <i>Melaleuca raphiophylla</i> (Swamp Paperbark)			
861.	5961 <i>Melaleuca scabra</i> (Rough Honeymyrtle, Wurru Bush)			
862.	5964 <i>Melaleuca seriata</i>			
863.	5978 <i>Melaleuca teretifolia</i> (Banbar)			
864.	5987 <i>Melaleuca viminea</i> (Mohan)			
865.	13280 <i>Melaleuca viminea</i> subsp. <i>viminea</i>			

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866.	47997 <i>Melanodryas cucullata</i> (Hooded Robin)			
867.	4516 <i>Melia azedarach</i> (White Cedar)			
868.	14985 <i>Melinis repens</i>	Y		
869.	25663 <i>Melithreptus brevirostris</i> (Brown-headed Honeyeater)			
870.	24587 <i>Melithreptus chloropsis</i> (Western White-naped Honeyeater)			
871.	25184 <i>Menetia greyii</i>			
872.	15994 <i>Mentha x piperita</i> var. <i>citrata</i>	Y		
873.	24598 <i>Merops ornatus</i> (Rainbow Bee-eater)			
874.	955 <i>Mesomelaena pseudostygia</i>			
875.	957 <i>Mesomelaena tetragona</i> (Semaphore Sedge)			
876.	<i>Microcarbo melanoleucos</i>			
877.	485 <i>Microlaena stipoides</i> (Weeping Grass)			
878.	1658 <i>Microtis atrata</i> (Swamp Mignonette Orchid)			
879.	15419 <i>Microtis media</i> subsp. <i>media</i>			
880.	8106 <i>Millotia tenuifolia</i> (Soft Millotia)			
881.	4100 <i>Mirbelia spinosa</i>			
882.	<i>Missulena granulosa</i>			
883.	<i>Missulena occatoria</i>			
884.	<i>Mitulodon tarantulinus</i>			
885.	4963 <i>Modiola caroliniana</i>	Y		
886.	7378 <i>Momordica balsamina</i> (Balsam Apple)	Y		
887.	29418 <i>Monoculus monstrosus</i>	Y		
888.	7410 <i>Monopsis debilis</i>	Y		
889.	37440 <i>Monopsis debilis</i> var. <i>depressa</i>	Y		
890.	19585 <i>Monotaxis grandiflora</i> var. <i>grandiflora</i>			
891.	19179 <i>Moraea flaccida</i> (One-leaf Cape Tulip)	Y		
892.	19178 <i>Moraea lewisiae</i>	Y		
893.	19438 <i>Moraea ochroleuca</i>	Y		
894.	25191 <i>Morethia lineocellata</i>			
895.	25192 <i>Morethia obscura</i>			
896.	24223 <i>Mus musculus</i> (House Mouse)	Y		
897.	<i>Myandra bicincta</i>			
898.	<i>Myandra cambridgei</i>			
899.	38811 <i>Mycena clarkeana</i>			
900.	25610 <i>Myiagra inquieta</i> (Restless Flycatcher)			
901.	25420 <i>Myobatrachus gouldii</i> (Turtle Frog)			
902.	14187 <i>Myriocephalus occidentalis</i>			
903.	6189 <i>Myriophyllum crispatum</i>			
904.	6199 <i>Myriophyllum tillaeoides</i>			
905.	<i>Nannoperca vittata</i>			
906.	44495 <i>Narcissus tazetta</i> subsp. <i>tazetta</i>	Y		
907.	6464 <i>Needhamiella pumilio</i>			
908.	25248 <i>Neelaps bimaculatus</i> (Black-naped Snake)			
909.	24738 <i>Neophema elegans</i> (Elegant Parrot)			
910.	24739 <i>Neophema petrophila</i> (Rock Parrot)			
911.	<i>Nephila edulis</i>			
912.	492 <i>Neurachne alopecuroidea</i> (Foxtail Mulga Grass)			
913.	<i>Nicodamus mainae</i>			
914.	25252 <i>Notechis scutatus</i> (Tiger Snake)			
915.	1381 <i>Nothoscordum gracile</i>	Y		
916.	<i>Notiasemus glauerti</i>			
917.	2401 <i>Nuytsia floribunda</i> (Christmas Tree, Mudja)			
918.	25564 <i>Nycticorax caledonicus</i> (Rufous Night Heron)			
919.	2923 <i>Nymphaea odorata</i> (Fragrant Waterlily)	Y		
920.	24742 <i>Nymphicus hollandicus</i> (Cockatiel)			
921.	24407 <i>Ocyphaps lophotes</i> (Crested Pigeon)			
922.	<i>Oecobius navus</i>			
923.	6138 <i>Oenothera drummondii</i> (Beach Evening Primrose)	Y		
924.	16390 <i>Oenothera drummondii</i> subsp. <i>drummondii</i>	Y		
925.	6139 <i>Oenothera glazioviana</i> (Evening Primrose)	Y		
926.	20052 <i>Oenothera jamesii</i>	Y		
927.	16347 <i>Oenothera laciniata</i>	Y		
928.	6140 <i>Oenothera mollissima</i>	Y		
929.	6141 <i>Oenothera speciosa</i> (White Evening Primrose)	Y		
930.	6142 <i>Oenothera stricta</i> (Common Evening Primrose)	Y		
931.	14292 <i>Oenothera stricta</i> subsp. <i>stricta</i>	Y		
932.	2367 <i>Olx scalariformis</i>			
933.	8127 <i>Olearia axillaris</i> (Coastal Daisybush)			
934.	<i>Oligochaeta</i> sp.			
935.	<i>Ommatoiulus moreleti</i>			

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936.	<i>Ommatolulus moreletii</i>			
937.	38816 <i>Omphalotus nidiformis</i>			
938.	18254 <i>Opercularia apiciflora</i>			
939.	18255 <i>Opercularia vaginata</i> (Dog Weed)			
940.	29276 <i>Opuntia monacantha</i> (Barbary Fig)	Y		
941.	5227 <i>Opuntia stricta</i> (Common Prickly Pear)	Y		
942.	36177 <i>Ornduffia albiflora</i>			
943.	4113 <i>Ornithopus compressus</i> (Yellow Serradella)	Y		
944.	7122 <i>Orobanche minor</i> (Lesser Broomrape)	Y		
945.	<i>Orthoclaadiinae</i> sp.			
946.	24085 <i>Oryctolagus cuniculus</i> (Rabbit)	Y		
947.	<i>Ostearius melanopygius</i>			
948.	168 <i>Ottelia ovalifolia</i> (Swamp Lily)			
949.	14531 <i>Ottelia ovalifolia</i> subsp. <i>ovalifolia</i>			
950.	4352 <i>Oxalis glabra</i>	Y		
951.	4356 <i>Oxalis pes-caprae</i> (Soursob)	Y		
952.	4358 <i>Oxalis purpurea</i> (Largeflower Wood Sorrel)	Y		
953.	4359 <i>Oxalis violacea</i> (Violet Wood Sorrel)	Y		
954.	25680 <i>Pachycephala rufiventris</i> (Rufous Whistler)			
955.	24624 <i>Pachycephala rufiventris</i> subsp. <i>rufiventris</i> (Rufous Whistler)			
956.	<i>Palaemonidae</i> sp.			
957.	23500 <i>Paracaleana hortiorum</i>			
958.	17114 <i>Paraserianthes lophantha</i> subsp. <i>lophantha</i>			
959.	25253 <i>Parasuta gouldii</i>			
960.	25681 <i>Pardalotus punctatus</i> (Spotted Pardalote)			
961.	25682 <i>Pardalotus striatus</i> (Striated Pardalote)			
962.	7089 <i>Parentucellia latifolia</i> (Common Bartsia)	Y		
963.	7090 <i>Parentucellia viscosa</i> (Sticky Bartsia)	Y		
964.	527 <i>Paspalum dilatatum</i>	Y		
965.	528 <i>Paspalum distichum</i> (Water Couch)	Y		
966.	532 <i>Paspalum urvillei</i> (Vasey Grass)	Y		
967.	1546 <i>Patersonia juncea</i> (Rush Leaved Patersonia)			
968.	1550 <i>Patersonia occidentalis</i> (Purple Flag, Koma)			
969.	30472 <i>Patersonia occidentalis</i> var. <i>occidentalis</i>			
970.	43760 <i>Pauridia occidentalis</i>			
971.	43761 <i>Pauridia occidentalis</i> var. <i>occidentalis</i>			
972.	24648 <i>Pelecanus conspicillatus</i> (Australian Pelican)			
973.	40422 <i>Pentameris pallida</i>	Y		
974.	16477 <i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			
975.	16478 <i>Pericalymma ellipticum</i> var. <i>floridum</i>			
976.	13911 <i>Persicaria decipiens</i>			
977.	11020 <i>Persicaria hydropiper</i>			
978.	2255 <i>Persoonia angustiflora</i>			
979.	2262 <i>Persoonia elliptica</i> (Spreading Snottygobble)			
980.	48060 <i>Petrochelidon ariel</i> (Fairy Martin)			
981.	48061 <i>Petrochelidon nigricans</i> (Tree Martin)			
982.	48066 <i>Petroica boodang</i> (Scarlet Robin)			
983.	24659 <i>Petroica goodenovii</i> (Red-capped Robin)			
984.	20391 <i>Petrophile juncifolia</i>			
985.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
986.	2301 <i>Petrophile macrostachya</i>			
987.	2308 <i>Petrophile seminuda</i>			
988.	6669 <i>Phacelia tanacetifolia</i>	Y		
989.	<i>Phaeotrametes decipiens</i>			
990.	25697 <i>Phalacrocorax carbo</i> (Great Cormorant)			
991.	25698 <i>Phalacrocorax melanoleucos</i> (Little Pied Cormorant)			
992.	24667 <i>Phalacrocorax sulcirostris</i> (Little Black Cormorant)			
993.	25699 <i>Phalacrocorax varius</i> (Pied Cormorant)			
994.	551 <i>Phalaris minor</i> (Lesser Canary Grass)	Y		
995.	24409 <i>Phaps chalcoptera</i> (Common Bronzewing)			
996.	20460 <i>Pheladenia deformis</i>			
997.	<i>Phellinus gilvus</i>			
998.	18529 <i>Philothea spicata</i> (Pepper and Salt)			
999.	1172 <i>Philydrella drummondii</i>			
1000.	1173 <i>Philydrella pygmaea</i> (Butterfly Flowers)			
1001.	14306 <i>Philydrella pygmaea</i> subsp. <i>pygmaea</i>			
1002.	1478 <i>Phlebocarya ciliata</i>			
1003.	1479 <i>Phlebocarya filifolia</i>			
1004.	<i>Pholcus phalangoides</i>			
1005.	<i>Phreatoicidae</i> sp.			

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1006.	<i>Phryganoporus candidus</i>			
1007.	<i>Phryganoporus gausapatus</i> subsp. <i>occidentalis</i>			Y
1008.	48071 <i>Phylidonyris niger</i> (White-cheeked Honeyeater)			
1009.	24596 <i>Phylidonyris novaehollandiae</i> (New Holland Honeyeater)			
1010.	16825 <i>Phyllangium divergens</i>			
1011.	4 <i>Phylloglossum drummondii</i> (Pigmy Clubmoss)			
1012.	39074 <i>Physarum pusillum</i>			
1013.	<i>Physidae</i> sp.			
1014.	<i>Phytophthora cinnamomi</i>			
1015.	78 <i>Pilularia novae-hollandiae</i> (Austral Pillwort)			
1016.	11404 <i>Pimelea imbricata</i> var. <i>major</i>			
1017.	11402 <i>Pimelea imbricata</i> var. <i>piligera</i>			
1018.	18117 <i>Pimelea rosea</i> subsp. <i>rosea</i>			
1019.	5268 <i>Pimelea sulphurea</i> (Yellow Banjine)			
1020.	7303 <i>Plantago lanceolata</i> (Ribwort Plantain)	Y		
1021.	7304 <i>Plantago major</i> (Greater Plantain)	Y		
1022.	24841 <i>Platalea flavipes</i> (Yellow-billed Spoonbill)			
1023.	24842 <i>Platalea regia</i> (Royal Spoonbill)			
1024.	25720 <i>Platycercus icterotis</i> (Western Rosella)			
1025.	25721 <i>Platycercus zonarius</i> (Australian Ringneck, Ring-necked Parrot)			
1026.	6255 <i>Platysace juncea</i>			
1027.	25007 <i>Pletholax gracilis</i> subsp. <i>gracilis</i> (Keeled Legless Lizard)			
1028.	38825 <i>Pluteus pauperculus</i>			
1029.	571 <i>Poa annua</i> (Winter Grass)	Y		
1030.	578 <i>Poa porphyroclados</i>			
1031.	25703 <i>Podargus strigoides</i> (Tawny Frogmouth)			
1032.	24679 <i>Podargus strigoides</i> subsp. <i>brachypterus</i> (Tawny Frogmouth)			
1033.	25704 <i>Podiceps cristatus</i> (Great Crested Grebe)			
1034.	8173 <i>Podolepis capillaris</i> (Wiry Podolepis)			
1035.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
1036.	8177 <i>Podolepis lessonii</i>			
1037.	8182 <i>Podotheca angustifolia</i> (Sticky Longheads)			
1038.	25510 <i>Pogona minor</i> (Dwarf Bearded Dragon)			
1039.	24907 <i>Pogona minor</i> subsp. <i>minor</i> (Dwarf Bearded Dragon)			
1040.	8188 <i>Pogonolepis stricta</i>			
1041.	24681 <i>Poliocephalus poliocephalus</i> (Hoary-headed Grebe)			
1042.	2416 <i>Polygonum arenastrum</i> (Sand Wireweed)	Y		
1043.	2419 <i>Polygonum aviculare</i> (Wireweed)	Y		
1044.	582 <i>Polypogon monspeliensis</i> (Annual Beardgrass)	Y		
1045.	583 <i>Polypogon tenellus</i>			
1046.	4691 <i>Poranthera microphylla</i> (Small Poranthera)			
1047.	44729 <i>Porostereum crassum</i>			
1048.	25731 <i>Porphyrio porphyrio</i> (Purple Swamphen)			
1049.	24767 <i>Porphyrio porphyrio</i> subsp. <i>bellus</i> (Purple Swamphen)			
1050.	2884 <i>Portulaca oleracea</i> (Purslane, Wakati)			
1051.	24769 <i>Porzana fluminea</i> (Australian Spotted Crane)			
1052.	25732 <i>Porzana pusilla</i> (Baillon's Crane)			
1053.	24771 <i>Porzana tabuensis</i> (Spotless Crane)			
1054.	109 <i>Potamogeton crispus</i> (Curly Pondweed)			
1055.	1670 <i>Prasophyllum drummondii</i> (Swamp Leek Orchid)			
1056.	1672 <i>Prasophyllum fimbria</i> (Fringed Leek Orchid)			
1057.	16688 <i>Prasophyllum gracile</i>			
1058.	1676 <i>Prasophyllum hians</i> (Yawning Leek Orchid)			
1059.	25261 <i>Pseudechis australis</i> (Mulga Snake)			
1060.	24234 <i>Pseudomys delicatulus</i> (Delicate Mouse)			
1061.	25511 <i>Pseudonaja affinis</i> (Dugite)			
1062.	25259 <i>Pseudonaja affinis</i> subsp. <i>affinis</i> (Dugite)			
1063.	25433 <i>Pseudophryne guentheri</i> (Crawling Toadlet)			
1064.	24702 <i>Pterodroma brevirostris</i> (Kerguelen Petrel)			
1065.	1686 <i>Pterostylis barbata</i> (Bird Orchid)			
1066.	1687 <i>Pterostylis dilatata</i>			
1067.	44527 <i>Pterostylis erubescens</i>			
1068.	11118 <i>Pterostylis pyramidalis</i> (Snail Orchid)			
1069.	1693 <i>Pterostylis recurva</i> (Jug Orchid)			
1070.	12217 <i>Pterostylis sanguinea</i>			
1071.	<i>Pterostylis</i> sp.			
1072.	1698 <i>Pterostylis vittata</i> (Banded Greenhood)			
1073.	2716 <i>Ptilotus declinatus</i> (Curved Mulla Mulla)			
1074.	11260 <i>Ptilotus drummondii</i> var. <i>drummondii</i> (Pussytail)			
1075.	2720 <i>Ptilotus esquamatus</i>			



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1076.	2742 <i>Ptilotus manglesii</i> (Pom Poms, Mulamula)			
1077.	4181 <i>Pultenaea reticulata</i>			
1078.	<i>Purpurecephalus spurius</i>			
1079.	25008 <i>Pygopus lepidopodus</i> (Common Scaly Foot)			
1080.	16367 <i>Pyrorchis nigricans</i> (Red beaks, Elephants ears)			
1081.	2933 <i>Ranunculus muricatus</i> (Sharp Buttercup)	Y		
1082.	11927 <i>Ranunculus sessiliflorus</i> var. <i>sessiliflorus</i>			
1083.	24243 <i>Rattus fuscipes</i> (Western Bush Rat)			
1084.	24245 <i>Rattus rattus</i> (Black Rat)	Y		
1085.	<i>Raveniella cirrata</i>			
1086.	<i>Raveniella peckorum</i>			
1087.	24776 <i>Recurvirostra novaehollandiae</i> (Red-necked Avocet)			
1088.	6012 <i>Regelia ciliata</i>			
1089.	38832 <i>Resupinatus cinerascens</i>			
1090.	48096 <i>Rhipidura albiscapa</i> (Grey Fantail)			
1091.	25614 <i>Rhipidura leucophrys</i> (Willie Wagtail)			
1092.	13312 <i>Rhodanthe pyrethrum</i>			
1093.	4705 <i>Ricinus communis</i> (Castor Oil Plant)	Y		
1094.	17020 <i>Robinia pseudoacacia</i>	Y		
1095.	45434 <i>Roldana petasitis</i>	Y		
1096.	1554 <i>Romulea flava</i>	Y		
1097.	1556 <i>Romulea rosea</i> (Guildford Grass)	Y		
1098.	14924 <i>Romulea rosea</i> var. <i>communis</i>	Y		
1099.	3066 <i>Rorippa nasturtium-aquaticum</i> (Watercress)	Y		
1100.	32429 <i>Rosulabryum torquescens</i>			
1101.	20496 <i>Rubus laudatus</i>	Y		
1102.	2429 <i>Rumex acetosella</i> (Sorrel)	Y		
1103.	2432 <i>Rumex conglomeratus</i> (Clustered Dock)	Y		
1104.	2433 <i>Rumex crispus</i> (Curled Dock)	Y		
1105.	40431 <i>Rytidosperma acerosum</i>			
1106.	40425 <i>Rytidosperma caespitosum</i>			
1107.	40427 <i>Rytidosperma setaceum</i>			
1108.	2907 <i>Sagina procumbens</i> (Spreading Pearlwort)	Y		
1109.	17591 <i>Sagittaria platyphylla</i>	Y		
1110.	48430 <i>Salicornia quinqueflora</i>			
1111.	6928 <i>Salvia reflexa</i> (Mintweed)	Y		
1112.	79 <i>Salvinia molesta</i> (Salvinia)	Y		
1113.	6483 <i>Samolus junceus</i>			
1114.	6484 <i>Samolus repens</i> (Creeping Brookweed)			
1115.	11647 <i>Samolus repens</i> var. <i>repens</i>			
1116.	7368 <i>Scabiosa atropurpurea</i> (Purple Pincushion)	Y		
1117.	7613 <i>Scaevola glandulifera</i> (Viscid Hand-flower)			
1118.	7619 <i>Scaevola lanceolata</i> (Long-leaved Scaevola)			
1119.	13182 <i>Scaevola repens</i> var. <i>repens</i>			
1120.	11027 <i>Schinus terebinthifolius</i>	Y		
1121.	6263 <i>Schoenolaena juncea</i>			
1122.	48356 <i>Schoenoplectus tabernaemontani</i>			
1123.	971 <i>Schoenus andrewsii</i>			
1124.	973 <i>Schoenus asperocarpus</i> (Poison Sedge)			
1125.	975 <i>Schoenus bifidus</i>			
1126.	978 <i>Schoenus brevisetis</i>			
1127.	979 <i>Schoenus caespititius</i>			
1128.	984 <i>Schoenus curvifolius</i>			
1129.	985 <i>Schoenus discifer</i>			
1130.	987 <i>Schoenus elegans</i>			
1131.	991 <i>Schoenus grammatophyllus</i>			
1132.	994 <i>Schoenus humilis</i>			
1133.	996 <i>Schoenus laevigatus</i>			
1134.	998 <i>Schoenus latitans</i>			
1135.	1002 <i>Schoenus nanus</i> (Tiny Bog Rush)			
1136.	1006 <i>Schoenus odontocarpus</i>			
1137.	1007 <i>Schoenus pedicellatus</i>			
1138.	17614 <i>Schoenus plumosus</i>			
1139.	1011 <i>Schoenus rigens</i>			
1140.	1013 <i>Schoenus sculptus</i> (Gimlet Bog-rush)			
1141.	1016 <i>Schoenus subbarbatus</i> (Bearded Bog-rush)			
1142.	1017 <i>Schoenus subbulbosus</i>			
1143.	1018 <i>Schoenus subfascicularis</i>			
1144.	1026 <i>Schoenus unispiculatus</i>			
1145.	6033 <i>Scholtzia involucrata</i> (Spiked Scholtzia)			



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1146.	<i>Scleroderma cepa</i>			
1147.	6 <i>Selaginella gracillima</i> (Tiny Clubmoss)			
1148.	32433 <i>Sematophyllum homomallum</i>			
1149.	25878 <i>Senecio condylus</i>			
1150.	20663 <i>Senecio multicaulis</i> subsp. <i>multicaulis</i>			
1151.	8220 <i>Senecio vulgaris</i> (Common Groundsel)	Y		
1152.	25534 <i>Sericornis frontalis</i> (White-browed Scrubwren)			
1153.	609 <i>Setaria palmifolia</i> (Palm Grass)	Y		
1154.	611 <i>Setaria sphacelata</i> (South African Pigeon Grass)	Y		
1155.	4980 <i>Sida hookeriana</i>			
1156.	2909 <i>Silene gallica</i> (French Catchfly)	Y		
1157.	15972 <i>Silene gallica</i> var. <i>gallica</i>	Y		
1158.	8224 <i>Siloxerus filifolius</i>			
1159.	8225 <i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
1160.	25266 <i>Simoselaps bertholdi</i> (Jan's Banded Snake)			
1161.	<i>Simuliidae</i> sp.			
1162.	28060 <i>Siphula coriacea</i>			
1163.	3072 <i>Sisymbrium orientale</i> (Indian Hedge Mustard)	Y		
1164.	1557 <i>Sisyrrinchium exile</i>	Y		
1165.	30948 <i>Smicromis brevirostris</i> (Weebill)			
1166.	<i>Sminthopsis murina</i>			
1167.	<i>Solaenodolichopus pruvoti</i>			
1168.	7022 <i>Solanum nigrum</i> (Black Berry Nightshade)	Y		
1169.	9259 <i>Solanum nodiflorum</i> (Glossy Nightshade)	Y		
1170.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
1171.	616 <i>Sorghum bicolor</i> (Grain Sorghum)	Y		
1172.	1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)			
1173.	1558 <i>Sparaxis bulbifera</i>	Y		
1174.	4205 <i>Sphaerolobium linophyllum</i>			
1175.	635 <i>Sporobolus virginicus</i> (Marine Couch)			
1176.	6930 <i>Stachys arvensis</i> (Staggerweed)	Y		
1177.	<i>Steatoda capensis</i>			
1178.	<i>Steatoda grossa</i>			
1179.	13475 <i>Stenanthemum humile</i>			
1180.	19403 <i>Stenopetalum gracile</i>			
1181.	24525 <i>Sterna fuscata</i> subsp. <i>nubilosa</i> (Sooty Tern)			
1182.	48594 <i>Sternula nereis</i> (Fairy Tern)			
1183.	24329 <i>Stictonetta naevosa</i> (Freckled Duck)			
1184.	2316 <i>Stirlingia latifolia</i> (Blueboy)			
1185.	2317 <i>Stirlingia simplex</i>			
1186.	<i>Storena formosa</i>			
1187.	25597 <i>Strepera versicolor</i> (Grey Currawong)			
1188.	25589 <i>Streptopelia chinensis</i> (Spotted Turtle-Dove)	Y		
1189.	25590 <i>Streptopelia senegalensis</i> (Laughing Turtle-Dove)	Y		
1190.	30950 <i>Streptopelia senegalensis</i> subsp. <i>senegalensis</i> (Laughing Turtle-Dove)	Y		
1191.	24943 <i>Strophurus spinigerus</i> subsp. <i>inornatus</i>			
1192.	24942 <i>Strophurus spinigerus</i> subsp. <i>spinigerus</i>			
1193.	7684 <i>Stylidium amoenum</i> (Lovely Triggerplant)			
1194.	30278 <i>Stylidium androsaceum</i>			
1195.	30276 <i>Stylidium bicolor</i>			
1196.	7693 <i>Stylidium brunonianum</i> (Pink Fountain Triggerplant)			
1197.	7696 <i>Stylidium calcaratum</i> (Book Triggerplant)			
1198.	7699 <i>Stylidium carnosum</i> (Fleshy-leaved Triggerplant)			
1199.	7712 <i>Stylidium despectum</i> (Dwarf Triggerplant)			
1200.	7713 <i>Stylidium dichotomum</i> (Pins-and-needles)			
1201.	7716 <i>Stylidium diuroides</i> (Donkey Triggerplant)			
1202.	11808 <i>Stylidium diuroides</i> subsp. <i>diuroides</i>			
1203.	7717 <i>Stylidium divaricatum</i> (Daddy-long-legs)			
1204.	7721 <i>Stylidium emarginatum</i> (Biddy-four-legs)			
1205.	7734 <i>Stylidium guttatum</i> (Dotted Triggerplant)			
1206.	7742 <i>Stylidium inundatum</i> (Hundreds and Thousands)			
1207.	25829 <i>Stylidium neurophyllum</i> (Coastal Plain Triggerplant)			
1208.	7768 <i>Stylidium obtusatum</i> (Pinafore Triggerplant)			
1209.	7772 <i>Stylidium perpusillum</i> (Tiny Triggerplant)			
1210.	7773 <i>Stylidium petiolare</i> (Horn Triggerplant)			
1211.	7774 <i>Stylidium piliferum</i> (Common Butterfly Triggerplant)			
1212.	7781 <i>Stylidium pubigerum</i> (Yellow Butterfly Triggerplant)			
1213.	7782 <i>Stylidium pulchellum</i> (Thumbelina Triggerplant)			
1214.	7785 <i>Stylidium repens</i> (Matted Triggerplant)			
1215.	7790 <i>Stylidium roseolatum</i> (Pink-wing Triggerplant)			

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1216.	45594 <i>Stylidium tenue</i> subsp. <i>majusculum</i> (Showy Fountain Triggerplant)			
1217.	23511 <i>Stylidium thesioides</i> (Delicate Triggerplant)			
1218.	7806 <i>Stylidium utricularioides</i> (Pink Fan Triggerplant)			
1219.	6476 <i>Styphelia tenuiflora</i> (Common Pinheath)			
1220.	2639 <i>Suaeda australis</i> (Seablite)			
1221.	<i>Supunna funerea</i>			
1222.	<i>Supunna picta</i>			
1223.	<i>Sutorectus tentaculatus</i>			
1224.	25902 <i>Symphotrichum squamatum</i> (Bushy Starwort)	Y		
1225.	2321 <i>Synaphea acutiloba</i> (Granite Synaphea)			
1226.	2323 <i>Synaphea gracillima</i>			
1227.	2324 <i>Synaphea petiolaris</i> (Synaphea)			
1228.	16864 <i>Synaphea petiolaris</i> subsp. <i>petiolaris</i>			
1229.	2329 <i>Synaphea spinulosa</i>			
1230.	15532 <i>Synaphea spinulosa</i> subsp. <i>spinulosa</i>			
1231.	32438 <i>Syntrichia pagorum</i>			
1232.	25705 <i>Tachybaptus novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
1233.	24682 <i>Tachybaptus novaehollandiae</i> subsp. <i>novaehollandiae</i> (Australasian Grebe, Black-throated Grebe)			
1234.	24331 <i>Tadorna tadornoides</i> (Australian Shelduck, Mountain Duck)			
1235.	<i>Tamopsis facialis</i>			
1236.	<i>Tamopsis perthensis</i>			
1237.	38843 <i>Tapinella panuoides</i>			
1238.	45613 <i>Taraxacum khatoonae</i>	Y		
1239.	24167 <i>Tarsipes rostratus</i> (Honey Possum, Noolbenger)			
1240.	<i>Tasmanicosa leuckartii</i>			
1241.	20135 <i>Taxandria linearifolia</i>			
1242.	32440 <i>Tayloria octoblepharum</i>			
1243.	31718 <i>Tecticornia lepidosperma</i>			
1244.	<i>Tegenaria atrica</i>			Y
1245.	4251 <i>Templetonia drummondii</i>			
1246.	<i>Tetragnatha demissa</i>			
1247.	1036 <i>Tetralia octandra</i>			
1248.	1701 <i>Thelymitra antennifera</i> (Vanilla Orchid)			
1249.	10856 <i>Thelymitra benthamiana</i> (Leopard Orchid)			
1250.	1702 <i>Thelymitra campanulata</i> (Shirt Orchid)			
1251.	1705 <i>Thelymitra crinita</i> (Blue Lady Orchid)			
1252.	1707 <i>Thelymitra flexuosa</i> (Twisted Sun Orchid)			
1253.	<i>Thelymitra</i> sp.			
1254.	1715 <i>Thelymitra spiralis</i> (Curlylocks)			
1255.	1718 <i>Thelymitra villosa</i> (Custard Orchid)			
1256.	20731 <i>Thelymitra vulgaris</i>			
1257.	5084 <i>Thomasia grandiflora</i> (Large Flowered Thomasia)			
1258.	5087 <i>Thomasia macrocarpa</i> (Large Fruited Thomasia)			
1259.	24845 <i>Threskiornis spinicollis</i> (Straw-necked Ibis)			
1260.	1319 <i>Thysanotus arenarius</i>			
1261.	1320 <i>Thysanotus asper</i> (Hairy Fringe Lily)			
1262.	1338 <i>Thysanotus manglesianus</i> (Fringed Lily)			
1263.	1339 <i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
1264.	1343 <i>Thysanotus patersonii</i>			
1265.	46055 <i>Thysanotus</i> sp. Coastal plain (N.H. Brittan 66/63)			
1266.	1351 <i>Thysanotus sparteus</i>			
1267.	1354 <i>Thysanotus tenellus</i>			
1268.	1357 <i>Thysanotus thyrsoides</i>			
1269.	1358 <i>Thysanotus triandrus</i>			
1270.	25203 <i>Tiliqua occipitalis</i> (Western Bluetongue)			
1271.	25204 <i>Tiliqua rugosa</i> subsp. <i>aspera</i>			
1272.	25207 <i>Tiliqua rugosa</i> subsp. <i>rugosa</i>			
1273.	<i>Tipulidae</i> sp.			
1274.	25549 <i>Todiramphus sanctus</i> (Sacred Kingfisher)			
1275.	24309 <i>Todiramphus sanctus</i> subsp. <i>sanctus</i> (Sacred Kingfisher)			
1276.	6280 <i>Trachymene pilosa</i> (Native Parsnip)			
1277.	17684 <i>Tremulina tremula</i>			
1278.	11112 <i>Tribolium uniolae</i>	Y		
1279.	1481 <i>Tribonanthes australis</i>			
1280.	1482 <i>Tribonanthes brachypetala</i>			
1281.	1483 <i>Tribonanthes longipetala</i>			
1282.	1485 <i>Tribonanthes violacea</i>			
1283.	48141 <i>Tribonyx ventralis</i> (Black-tailed Native-hen)			
1284.	4383 <i>Tribulus terrestris</i> (Caltrop)	Y		

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1285.	8251 <i>Trichocline spathulata</i> (Native Gerbera)			
1286.	25723 <i>Trichoglossus haematodus</i> (Rainbow Lorikeet)			
1287.	24755 <i>Trichoglossus haematodus</i> subsp. <i>moluccanus</i> (Rainbow Lorikeet)	Y		
1288.	25521 <i>Trichosurus vulpecula</i> (Common Brushtail Possum)			
1289.	1361 <i>Tricoryne elatior</i> (Yellow Autumn Lily)			
1290.	1362 <i>Tricoryne humilis</i>			
1291.	1363 <i>Tricoryne tenella</i>			
1292.	1038 <i>Tricostularia neesii</i>			
1293.	17145 <i>Trifolium angustifolium</i> var. <i>angustifolium</i>	Y		
1294.	4291 <i>Trifolium arvense</i> (Hare's Foot Clover)	Y		
1295.	4292 <i>Trifolium campestre</i> (Hop Clover)	Y		
1296.	4295 <i>Trifolium dubium</i> (Suckling Clover)	Y		
1297.	4309 <i>Trifolium scabrum</i> (Rough Clover)	Y		
1298.	15509 <i>Trifolium tomentosum</i> var. <i>tomentosum</i>	Y		
1299.	33676 <i>Triglochin calcitrapa</i>			
1300.	146 <i>Triglochin minutissima</i>			
1301.	147 <i>Triglochin mucronata</i>			
1302.	148 <i>Triglochin muelleri</i>			
1303.	18587 <i>Triglochin nana</i>			
1304.	150 <i>Triglochin stowardii</i>			
1305.	4737 <i>Tripterococcus brunonis</i> (Winged Stackhousia)			
1306.	1139 <i>Trithuria bibracteata</i>			
1307.	1141 <i>Trithuria submersa</i>			
1308.	4360 <i>Tropaeolum majus</i> (Garden Nasturtium)	Y		
1309.	33418 <i>Trymalium odoratissimum</i> subsp. <i>odoratissimum</i>			
1310.	<i>Tubaria rufofulva</i>			
1311.	24069 <i>Tursiops truncatus</i> (Bottlenose Dolphin)			
1312.	98 <i>Typha domingensis</i> (Bulrush, Djandjid)			
1313.	99 <i>Typha orientalis</i> (Bulrush, Cumbungi)			
1314.	24983 <i>Underwoodisaurus milii</i> (Barking Gecko)			
1315.	<i>Urodacus novaehollandiae</i>			
1316.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
1317.	38388 <i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	Y		
1318.	7138 <i>Utricularia inaequalis</i>			
1319.	7145 <i>Utricularia menziesii</i> (Redcoats)			
1320.	7148 <i>Utricularia multifida</i>			
1321.	7153 <i>Utricularia tenella</i>			
1322.	7157 <i>Utricularia violacea</i> (Violet Bladderwort)			
1323.	33537 <i>Vallisneria australis</i>	Y		
1324.	24386 <i>Vanellus tricolor</i> (Banded Lapwing)			
1325.	25218 <i>Varanus gouldii</i> (Bungarra or Sand Monitor)			
1326.	25225 <i>Varanus rosenbergi</i> (Heath Monitor)			
1327.	25526 <i>Varanus tristis</i> (Racehorse Monitor)			
1328.	7665 <i>Velleia trinervis</i>			
1329.	<i>Venator immansueta</i>			
1330.	<i>Venatrix pullastra</i>			
1331.	36096 <i>Verbena incompta</i> (Purple-top Verbena)	Y		
1332.	7108 <i>Veronica arvensis</i> (Wall Speedwell)	Y		
1333.	6070 <i>Verticordia acerosa</i>			
1334.	15431 <i>Verticordia acerosa</i> var. <i>acerosa</i>			
1335.	12388 <i>Verticordia acerosa</i> var. <i>preissii</i>			
1336.	6076 <i>Verticordia densiflora</i> (Compacted Featherflower)			
1337.	15432 <i>Verticordia densiflora</i> var. <i>densiflora</i>			
1338.	6088 <i>Verticordia huegelii</i> (Variegated Featherflower)			
1339.	15433 <i>Verticordia huegelii</i> var. <i>huegelii</i>			
1340.	6107 <i>Verticordia pennigera</i>			
1341.	6110 <i>Verticordia plumosa</i> (Plumed Featherflower)			
1342.	12449 <i>Verticordia plumosa</i> var. <i>brachyphylla</i>			
1343.	4320 <i>Vicia hirsuta</i> (Hairy Vetch)	Y		
1344.	4322 <i>Vicia sativa</i> (Common Vetch)	Y		
1345.	11474 <i>Vicia sativa</i> subsp. <i>nigra</i>	Y		
1346.	12070 <i>Vicia sativa</i> subsp. <i>sativa</i>	Y		
1347.	29491 <i>Vicia tetrasperma</i>	Y		Y
1348.	4325 <i>Viminaria juncea</i> (Swishbush, Koweda)			
1349.	24040 <i>Vulpes vulpes</i> (Red Fox)	Y		
1350.	722 <i>Vulpia bromoides</i> (Squirrel Tail Fescue)	Y		
1351.	724 <i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		
1352.	7384 <i>Wahlenbergia capensis</i> (Cape Bluebell)	Y		
1353.	7389 <i>Wahlenbergia preissii</i>			
1354.	13103 <i>Watsonia borbonica</i>	Y		

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
1355.	1566 <i>Watsonia marginata</i>	Y		
1356.	18108 <i>Watsonia meriana</i> var. <i>bulbillifera</i>	Y		
1357.	18118 <i>Watsonia meriana</i> var. <i>meriana</i>	Y		
1358.	1569 <i>Watsonia versfeldii</i>	Y		
1359.	6658 <i>Wilsonia backhousei</i> ( <i>Narrow-leaf Wilsonia</i> )			
1360.	1394 <i>Wurmbea dioica</i> ( <i>Early Nancy</i> )			
1361.	12072 <i>Wurmbea dioica</i> subsp. <i>alba</i>			
1362.	1251 <i>Xanthorrhoea brunonis</i>			
1363.	14544 <i>Xanthorrhoea brunonis</i> subsp. <i>brunonis</i>			
1364.	1256 <i>Xanthorrhoea preissii</i> ( <i>Grass tree, Palga</i> )			
1365.	6289 <i>Xanthosia huegelii</i>			
1366.	2331 <i>Xylomelum occidentale</i> ( <i>Woody Pear, Djandin</i> )			
1367.	1049 <i>Zantedeschia aethiopica</i> ( <i>Arum Lily</i> )	Y		
1368.	25765 <i>Zosterops lateralis</i> ( <i>Grey-breasted White-eye, Silvereye</i> )			

**Conservation Codes**

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

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

## **APPENDIX 2**

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

Report created: 01/11/18 18:34:45

[Summary](#)

[Details](#)

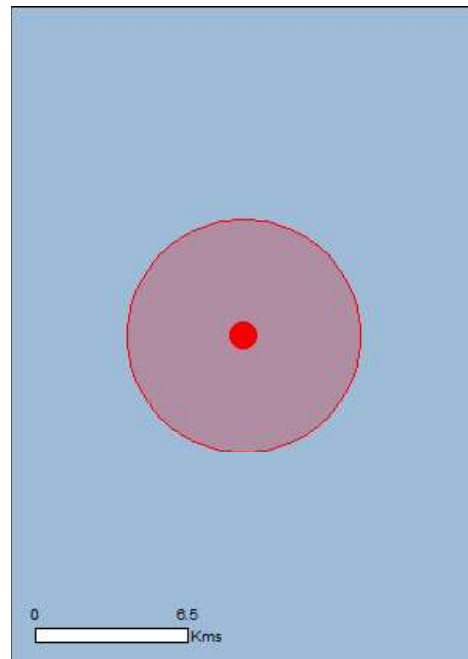
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



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 [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance:</a>	None
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	4
<a href="#">Listed Threatened Species:</a>	52
<a href="#">Listed Migratory Species:</a>	25

## Other Matters Protected by the EPBC Act

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

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

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

<a href="#">Commonwealth Land:</a>	2
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	32
<a href="#">Whales and Other Cetaceans:</a>	None
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	None

## Extra Information

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

<a href="#">State and Territory Reserves:</a>	5
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	43
<a href="#">Nationally Important Wetlands:</a>	3
<a href="#">Key Ecological Features (Marine)</a>	None

# Details

## Matters of National Environmental Significance

### Listed Threatened Ecological Communities [ [Resource Information](#) ]

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.

Name	Status	Type of Presence
<a href="#">Banksia Woodlands of the Swan Coastal Plain ecological community</a>	Endangered	Community likely to occur within area
<a href="#">Clay Pans of the Swan Coastal Plain</a>	Critically Endangered	Community likely to occur within area
<a href="#">Corymbia calophylla - Kingia australis woodlands on heavy soils of the Swan Coastal Plain</a>	Endangered	Community known to occur within area
<a href="#">Subtropical and Temperate Coastal Saltmarsh</a>	Vulnerable	Community likely to occur within area

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

Name	Status	Type of Presence
<b>Birds</b>		
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
<a href="#">Botaurus poiciloptilus</a> Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Calyptorhynchus banksii naso</a> Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Calyptorhynchus baudinii</a> Baudin's Cockatoo, Long-billed Black-Cockatoo [769]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calyptorhynchus latirostris</a> Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
<a href="#">Diomedea amsterdamensis</a> Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area



Name	Status	Type of Presence
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area
<a href="#">Leipoa ocellata</a> Malleefowl [934]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pachyptila turtur subantarctica</a> Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Rostratula australis</a> Australian Painted-snipe, Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<a href="#">Thalassarche cauta cauta</a> Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Thalassarche cauta steadi</a> White-capped Albatross [82344]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
<b>Insects</b>		
<a href="#">Leioproctus douglasiellus</a> a short-tongued bee [66756]	Critically Endangered	Species or species habitat known to occur within area
<b>Mammals</b>		
<a href="#">Dasyurus geoffroii</a> Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Neophoca cinerea</a> Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Pseudocheirus occidentalis</a> Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat may occur within area
<b>Other</b>		
<a href="#">Westralunio carteri</a> Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat known to occur within area
<b>Plants</b>		
<a href="#">Andersonia gracilis</a> Slender Andersonia [14470]	Endangered	Species or species habitat known to occur within area

Name	Status	Type of Presence
<a href="#">Austrostipa bronwenae</a> [87808]	Endangered	Species or species habitat may occur within area
<a href="#">Banksia mimica</a> Summer Honeypot [82765]	Endangered	Species or species habitat likely to occur within area
<a href="#">Caladenia huegelii</a> King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calytrix breviseta subsp. breviseta</a> Swamp Starflower [23879]	Endangered	Species or species habitat likely to occur within area
<a href="#">Chamelaucium sp. Gingin (N.G.Marchant 6)</a> Gingin Wax [88881]	Endangered	Species or species habitat may occur within area
<a href="#">Conospermum undulatum</a> Wavy-leaved Smokebush [24435]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diplolaena andrewsii</a> [6601]	Endangered	Species or species habitat may occur within area
<a href="#">Diuris micrantha</a> Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diuris purdiei</a> Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat known to occur within area
<a href="#">Drakaea elastica</a> Glossy-leaved Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat likely to occur within area
<a href="#">Drakaea micrantha</a> Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Eleocharis keigheryi</a> Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Eremophila glabra subsp. chlorella</a> [84927]	Endangered	Species or species habitat known to occur within area
<a href="#">Eucalyptus x balanites</a> Cadda Road Mallee, Cadda Mallee [87816]	Endangered	Species or species habitat may occur within area
<a href="#">Grevillea curviloba subsp. incurva</a> Narrow curved-leaf Grevillea [64909]	Endangered	Species or species habitat likely to occur within area
<a href="#">Grevillea thelemanniana</a> Spider Net Grevillea [32835]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Lepidosperma rostratum</a> Beaked Lepidosperma [14152]	Endangered	Species or species habitat likely to occur within area
<a href="#">Macarthuria keigheryi</a> Keighery's Macarthuria [64930]	Endangered	Species or species habitat likely to occur within area

Name	Status	Type of Presence
<a href="#">Ptilotus pyramidatus</a> Pyramid Mulla-mulla [18216]	Critically Endangered	Species or species habitat known to occur within area
<a href="#">Synaphea sp. Fairbridge Farm (D. Papenfus 696)</a> Selena's Synaphea [82881]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Thelymitra dedmaniarum</a> Cinnamon Sun Orchid [65105]	Endangered	Species or species habitat may occur within area
<a href="#">Thelymitra stellata</a> Star Sun-orchid [7060]	Endangered	Species or species habitat likely to occur within area

#### Reptiles

<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area

#### Listed Migratory Species

[ [Resource Information](#) ]

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

Name	Threatened	Type of Presence
<b>Migratory Marine Birds</b>		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Diomedea amsterdamensis</a> Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche cauta</a> Tasmanian Shy Albatross [89224]	Vulnerable*	Species or species habitat likely to occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within

Name	Threatened	Type of Presence
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable*	Species or species habitat likely to occur within area
<b>Migratory Marine Species</b>		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
<a href="#">Manta alfredi</a> Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat may occur within area
<a href="#">Manta birostris</a> Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Breeding known to occur within area
<a href="#">Tringa nebularia</a> 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 - AIRTC CANNINGTON

### 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
<b>Birds</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat known to occur within area
<a href="#">Anous tenuirostris melanops</a> Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#">Ardea alba</a> Great Egret, White Egret [59541]		Breeding known to occur within area
<a href="#">Ardea ibis</a> Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
<a href="#">Diomedea amsterdamensis</a> Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<a href="#">Diomedea epomophora</a> Southern Royal Albatross [89221]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea exulans</a> Wandering Albatross [89223]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diomedea sanfordi</a> Northern Royal Albatross [64456]	Endangered	Species or species habitat likely to occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#">Macronectes giganteus</a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area

Name	Threatened	Type of Presence
<a href="#">Macronectes halli</a> Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Pachyptila turtur</a> Fairy Prion [1066]		Species or species habitat likely to occur within area
<a href="#">Pandion haliaetus</a> Osprey [952]		Breeding known to occur within area
<a href="#">Rostratula benghalensis (sensu lato)</a> Painted Snipe [889]	Endangered*	Species or species habitat likely to occur within area
<a href="#">Thalassarche cauta</a> Tasmanian Shy Albatross [89224]	Vulnerable*	Species or species habitat likely to occur within area
<a href="#">Thalassarche impavida</a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche melanophris</a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
<a href="#">Thalassarche steadi</a> White-capped Albatross [64462]	Vulnerable*	Species or species habitat likely to occur within area
<a href="#">Thinornis rubricollis</a> Hooded Plover [59510]		Species or species habitat may occur within area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
<b>Mammals</b>		
<a href="#">Neophoca cinerea</a> Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat known to occur within area
<b>Reptiles</b>		
<a href="#">Caretta caretta</a> Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
<a href="#">Chelonia mydas</a> Green Turtle [1765]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Dermochelys coriacea</a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
<a href="#">Natator depressus</a> Flatback Turtle [59257]	Vulnerable	Species or species habitat known to occur within area

## Extra Information

### State and Territory Reserves [\[ Resource Information \]](#)

Name	State
Kenwick Wetlands	WA
Unnamed WA28740	WA
Unnamed WA47244	WA
Unnamed WA49362	WA
Unnamed WA49363	WA

### Invasive Species [\[ Resource Information \]](#)

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

Name	Status	Type of Presence
<b>Birds</b>		
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 Eurasian Tree Sparrow [406]		Species or species habitat likely to occur within area
Streptopelia chinensis 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

Name	Status	Type of Presence
Turdus merula Common Blackbird, Eurasian Blackbird [596]		within area Species or species habitat likely to occur within area
<b>Mammals</b>		
Bos taurus 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
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Funambulus pennantii 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
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus norvegicus Brown Rat, Norway Rat [83]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
<b>Plants</b>		
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus aethiopicus Asparagus Fern, Ground Asparagus, Basket Fern, Sprengi's Fern, Bushy Asparagus, Emerald Asparagus [62425]		Species or species habitat likely to occur within area
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Asparagus declinatus Bridal Veil, Bridal Veil Creeper, Pale Berry Asparagus Fern, Asparagus Fern, South African Creeper [66908]		Species or species habitat likely to occur within area
Asparagus plumosus Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
Brachiaria mutica Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Chrysanthemoides monilifera Bitou Bush, Boneseed [18983]		Species or species



Name	Status	Type of Presence
Chrysanthemoides monilifera subsp. monilifera Boneseed [16905]		habitat may occur within area  Species or species habitat likely to occur within area
Eichhornia crassipes Water Hyacinth, Water Orchid, Nile Lily [13466]		Species or species habitat likely to occur within area
Genista linifolia Flax-leaved Broom, Mediterranean Broom, Flax Broom [2800]		Species or species habitat likely to occur within area
Genista monspessulana Montpellier Broom, Cape Broom, Canary Broom, Common Broom, French Broom, Soft Broom [20126]		Species or species habitat likely to occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Lycium ferocissimum African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Olea europaea Olive, Common Olive [9160]		Species or species habitat may occur within area
Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to occur within area
Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Pine [20780]		Species or species habitat may occur within area
Rubus fruticosus aggregate Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Sagittaria platyphylla Delta Arrowhead, Arrowhead, Slender Arrowhead [68483]		Species 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 Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Tamarix aphylla Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area
<b>Reptiles</b>		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area

Nationally Important Wetlands		[ Resource Information ]
Name	State	
<a href="#">Brixton Street Swamps</a>	WA	
<a href="#">Perth Airport Woodland Swamps</a>	WA	

Name

[Swan-Canning Estuary](#)

State

WA

# Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

# Coordinates

-32.00416 115.93488

# 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.

# **APPENDIX 3**

## **Conservation Codes**

## Conservation Codes for Western Australian Flora and Fauna

Specially protected fauna or flora are species\* which have been adequately searched for and are deemed to be, in the wild, either rare, at risk of extinction, or otherwise in need of special protection, and have been gazetted as such.

Categories of specially protected fauna and flora are:

### **T Threatened species – Schedules 1-4**

Published as Specially Protected under the *Wildlife Conservation Act 1950*, and listed under Schedules 1 to 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).

- **Threatened fauna** is that subset of ‘Specially Protected Fauna’ declared to be ‘likely to become extinct’ pursuant to section 14(4) of the Wildlife Conservation Act.
- **Threatened flora** is flora that has been declared to be ‘likely to become extinct or is rare, or otherwise in need of special protection’, pursuant to section 23F(2) of the Wildlife Conservation Act.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

### **CR Critically endangered species – Schedule 1**

Threatened species considered to be facing an extremely high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

### **EN Endangered species – Schedule 2**

Threatened species considered to be facing a very high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

### **VU Vulnerable species - Schedule 3**

Threatened species considered to be facing a high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

**EX Presumed extinct species - Schedule 4**

Species which have been adequately searched for and there is no reasonable doubt that the last individual has died. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora.

**IA Migratory birds protected under an international agreement - Schedule 5**

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 the Bonn Convention, relating to the protection of migratory birds. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 5 of the Wildlife Conservation (Specially Protected Fauna) Notice.

**CD Conservation dependent fauna - Schedule 6**

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice.

**OS Other specially protected fauna - Schedule 7**

Fauna otherwise in need of special protection to ensure their conservation. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice.

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**P Priority 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.

## **1 Priority 1: Poorly-known species**

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.

## **2 Priority 2: Poorly-known species**

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.

## **3 Priority 3: Poorly-known species**

Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

## **4 Priority 4: Rare, Near Threatened and other species in need of monitoring**

(a) Rare: Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.

(b) Near Threatened: Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable, but are not listed as Conservation Dependent.

(c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

\*Species includes all taxa (plural of taxon - a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies or variety, or a distinct population).

A list of the current rankings can be downloaded from the Parks and Wildlife Threatened Species and Communities webpage at <http://www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities>



## **Commonwealth of Australia Conservation Codes**

Threatened fauna and flora may be listed under Section 178 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) in any one of the following six categories:

### **Extinct**

A native species is eligible to be included in the extinct category at a particular time if, at that time, there is no reasonable doubt that the last member of the species has died.

### **Extinct in the wild**

A native species is eligible to be included in the extinct in the wild category at a particular time if, at that time:

- a) it is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or
- b) it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.

### **Critically endangered**

A taxon is Critically Endangered when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing an extremely high risk of extinction in the wild.

### **Endangered**

A taxon is Endangered when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing a very high risk of extinction in the wild.

### **Vulnerable**

A taxon is Vulnerable when the best available evidence indicates that it meets any of the five criteria for the category identified in Part 7.01 of the EPBC Regulations, and it is therefore considered to be facing a high risk of extinction in the wild.

### **Conservation dependent**

A native species is eligible to be included in the conservation dependent category at a particular time if, at that time:

- a) the species is the focus of a specific conservation program the cessation of which would result in the species becoming vulnerable, endangered or critically endangered; or
- b) the following subparagraphs are satisfied:
  - i. the species is a species of fish;

- ii. the species is the focus of a plan of management that provides for management actions necessary to stop the decline of, and support the recovery of, the species so that its chances of long term survival in nature are maximised;
- iii. the plan of management is in force under a law of the Commonwealth or of a State or Territory;
- iv. cessation of the plan of management would adversely affect the conservation status of the species.

The EPBC Act does not provide for listing in a data deficient category. Where sufficient data (evidence) is unavailable to allow assessment by the Threatened Species Scientific Committee against the criteria for listing, the species are found to be ineligible. A recommendation is made to the Minister to not include the species in any category under the EPBC Act. For reasons of transparency and to inform future research, the Threatened Species Scientific Committee publishes the names of those species found to be data deficient. As data deficient is not a listing category under the EPBC Act, this has no statutory implications and the species is not considered to be listed under the EPBC Act.

# **APPENDIX 4**

## **Location Photographs**

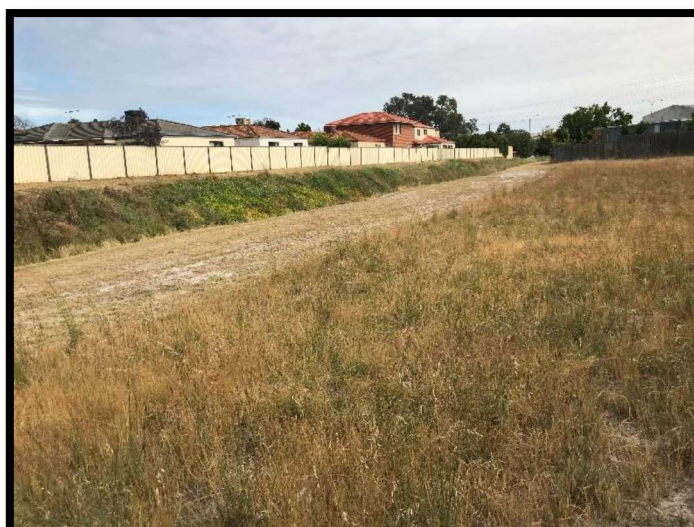
**Location 1**      **Flooded Gum (*Eucalyptus rudis*), *Acacia saligna*, *Melaleuca armillaris* and Hill's Weeping Fig over a manicured grassy lawn**



**Location 2**      **Unhealthy Flooded Gum covered in Dolichos Pea**



**Location 3**      **Bare drain**





**Location 4** *Melaleuca preissiana*, Tagasaste, Japanese Pepper



**Location 5** Cape Lilac and Coral Tree



**Location 6** Stand of Marri and some *Melaleuca preissiana*





**Location 7 Hill's Weeping Fig and River Red Gum**



**Location 8 River Red Gums, Jacaranda, Marri, *Eucalyptus botryoides*, WA Peppermint**



**Location 9 Rose Gum, Cape Lilac, Edible Fig, Rubber Tree, Poplar, Japanese Pepper**



**Location 10** River Red Gums, Cape Lilac, Bottlebrush

