

## APPENDIX C ATTACHMENTS LIST (BORR IPT 2019a - Part 11 of 12)

Biota. (2019b). *Bunbury Outer Ring Road Southern Section Targeted Fauna Assessment*. Unpublished report prepared for Main Roads Western Australia.

BORR IPT. (2019a). *Bunbury Outer Ring Road Southern Section Vegetation and Flora Study*. Unpublished report prepared for Main Roads Western Australia.

Brad Goode & Associates. (2012). *Aboriginal Heritage Survey Report of the Proposed Bunbury Outer Ring Road Stage 2, Western Australia*. Unpublished report prepared for GHD Pty Ltd on behalf of Main Roads Western Australia.

Main Roads WA. (2018). *Environmental Policy*.

WRM. (2019). *Bunbury Outer Ring Road Southern Investigation Area: Targeted Conservation Significant Aquatic Fauna Survey*. Unpublished report prepared for BORR IPT on behalf of Main Roads Western Australia.

## APPENDIX B

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# Conservation Codes and Vegetation Condition Rating Scale

## Relevant legislation

### Federal *Environment Protection and Biodiversity Conservation Act 1999*

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

The biological aspects listed as MNES include:

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

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

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

### State *Environmental Protection Act 1986*

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

The Department of Water and Environment Regulation (DWER) is responsible for administering the clearing provisions of the EP Act (Part V). Clearing of native vegetation in Western Australia requires a permit from the DWER, unless exemptions apply. Applications for clearing permits are assessed by the Department and decisions are made to grant or refuse them.

for determining whether the TEC is present in an application in accordance with the Act. When making a decision the assessment considers clearing against the ten clearing principles as specified in Schedule 5 of the EP Act:

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

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

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

#### *State Biodiversity and Conservation Act 2016*

The *Biodiversity Conservation Act 2016* (BC Act) provides for the conservation, protection and promotion of the ecologically sustainable use of biodiversity components in Western Australia. The BC Act replaced both the *Wildlife Conservation Act 1950* (WC Act) and the *Sandalwood Act 1929* (Sandalwood Act) as of 1 January 2016. To attain the objectives of the BC Act, principles of ecological sustainable development have been established:

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

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

#### *State Biosecurity and Agriculture Management Act 2007*

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

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

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

## DPIRD Categories for Declared Pests under the BAM Act

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

## Background information

### Environmentally Sensitive Areas

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

### Aspects of ESAs

Aspects of Environmentally Sensitive Areas
A declared World Heritage property as defined in Section 13 of the EPBC Act.
An area that is included on the Register of the National Estate (RNE), because of its natural values, under the <i>Australian Heritage Commission Act 1975</i> of the Commonwealth (the RNE was closed in 2007 and is no longer a statutory list – all references to the RNE were removed from the EPBC Act on 19 February 2012).
A defined wetland and the area within 50 m of the wetland. Defined wetlands include Ramsar wetlands, conservation category wetlands and nationally important wetlands.
The area covered by vegetation within 50 m of rare flora, to the extent to which the vegetation is continuous with the vegetation in which the rare flora is located.
The area covered by a Threatened Ecological Community.
A Bush Forever Site listed in “Bush Forever” Volumes 1 and 2 (2000), published by the Western Australia Planning Commission, except to the extent to which the site is approved to be developed by the Western Australia Planning Commission.
The areas covered by the <i>Environmental Protection (Gnangara Mound Crown Land) Policy 1992</i> .
The areas covered by the <i>Environmental Protection (Western Swamp Tortoise Habitat) Policy 2002</i> .
The areas covered by the lakes to which the <i>Environmental Protection (Swan Coastal Plain Lakes) Policy 1992</i> (EPP Lakes) applies.
Protected wetlands as defined in the <i>Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998</i> .

### Reserves and conservation areas

#### Bush Forever

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

#### Department of Biodiversity, Conservation and Attractions managed lands and waters

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

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

### Wetlands

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

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

### Ramsar Listed Wetlands

The Convention of Wetlands of International Importance was signed in 1971 at the Iranian town of Ramsar. The Convention has since been referred to as the Ramsar Convention. Ramsar Listed wetlands are “sites containing representative, rare or unique wetlands, or wetlands that are important for conserving biological diversity … because of their ecological, botanical, zoological, limnological or hydrological importance” (DEE 2018b). Once a Ramsar Listed Wetland is designated, the country agrees to manage its conservation and ensure its wise use. Under the Convention, wise use is broadly defined as “maintaining the ecological character of a wetland” (DEE 2018b).

### Nationally important wetlands

Wetlands of national significance are listed under the Directory of Important Wetlands in Australia. Nationally important wetlands are wetlands which meet at least one of the following criteria (DEE 2018a):

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

### Geomorphic wetlands

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

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

#### Vegetation extent and status

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

The extent of remnant native vegetation in WA has been assessed by Shepherd et al. (2002) and the GoWA (2018), based on broadscale vegetation association mapping by Beard (various publications). The GoWA produces Statewide Vegetation Statistics Reports that are used for a number of purposes including conservation planning, land use planning and when assessing development applications. The reports are updated at least every two years.

Within the Swan Coastal Plain, EPA Position Statement No. 9 (EPA 2006) identifies vegetation complexes with 30 percent or less of their pre-clearing extent remaining in a bioregion, or 10 percent or less of their pre-clearing extent remaining in constrained areas (i.e. areas of urban development in cities and major town) on the Swan Coastal Plain, to be critical assets.

#### Vegetation condition

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

#### [Vegetation condition rating scale for the South West and Interzone Botanical Provinces](#)

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

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

## Conservation codes

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

### Ecological communities

#### Conservation significant communities

Ecological communities are defined as naturally occurring biological assemblages that occur in a particular type of habitat (English and Blyth 1997). Federally listed Threatened Ecological Communities (TECs) are protected under the EPBC Act. The BC Act provides for the statutory listing of TECs by the Minister. The new legislation also describes statutory processes for preparing recovery plans for TECs, the registration of their critical habitat, and penalties for unauthorised modification of TECs. TECs are ecological communities that have been assessed and assigned to one of four categories related to the status of the threat to the community, i.e. Presumed Totally Destroyed, Critically Endangered, Endangered and Vulnerable.

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

#### Conservation codes and definitions for TECs listed under the EPBC Act and/ or BC Act

Categories	Definition
<b>Federal Government Conservation Categories (EPBC Act)</b>	
Critically Endangered (CR)	An ecological community if, at that time, is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria (as outlined in Environment Protection and Biodiversity Conservation Regulations 2000)
Endangered (EN)	An ecological community if, at that time: A) is not critically endangered; and B) is facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria (as outlined in Environment Protection and Biodiversity Conservation Regulations 2000)
Vulnerable (VU)	An ecological community if, at that time: A) is not critically endangered or endangered; and B) is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria (as outlined in Environment Protection and Biodiversity Conservation Regulations 2000)
<b>Western Australia Conservation Categories</b>	
Presumed Totally Destroyed (PD)	An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future.

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

#### Conservation categories and definitions for PECS as listed by the DBCA

Category	Description
Priority 1	<p>Poorly known ecological communities.</p> <p>Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤5 occurrences or a total area of ≤100 ha). Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.</p>
Priority 2	<p>Poorly known ecological communities.</p> <p>Communities that are known from few occurrences with a restricted distribution (generally ≤10 occurrences or a total area of ≤200 ha). At least some occurrences are not believed to be under immediate threat of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.</p>
Priority 3	<p>Poorly known ecological communities.</p> <ul style="list-style-type: none"> <li>(i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or:</li> <li>(ii) communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or;</li> <li>(iii) communities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, and inappropriate fire regimes.</li> </ul> <p>Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.</p>

Category	Description
Priority 4	<p>Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.</p> <ul style="list-style-type: none"> <li>(i) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands.</li> <li>(ii) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.</li> <li>(iii) Ecological communities that have been removed from the list of threatened communities during the past five years.</li> </ul>
Priority 5	<p>Conservation Dependent ecological communities.</p> <p>Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.</p>

### Banksia Woodlands of the Swan Coastal Plain TEC

The Banksia Woodlands of the Swan Coastal Plain was listed in September 2016 as an Endangered TEC under the EPBC Act. The Commonwealth TEC encompasses a number of FCTs, some of which are also listed as State TECs/PECs. The TSSC (2016) provides guidance for determining whether the TEC is present. These criteria are listed below

#### Diagnostic characteristics and condition thresholds to determine Banksia Woodlands TEC

Diagnostics characteristics / condition thresholds	Criteria
Floristic Community Type	<p>Location and physical environment:</p> <ul style="list-style-type: none"> <li>• Occurs in the SCP IBRA bioregion</li> </ul> <p>Soil and landform:</p> <ul style="list-style-type: none"> <li>• Typically occurs on well drained, low nutrient soils on sandplain landforms, particularly in deep Bassendean and Spearwood sands and occasionally on Quindalup sands.</li> </ul> <p>Structure:</p> <ul style="list-style-type: none"> <li>• The community is a low woodland to forest, but may also include shrubland, open woodland or forest under some classification systems. The percentage canopy cover is more than 2% and typically less than 50%. The structure and appearance may also vary due to disturbance history.</li> </ul> <p>Composition:</p> <ul style="list-style-type: none"> <li>• The canopy is commonly dominated by <i>Banksia attenuata</i> and/or <i>B. menziesii</i>. Other <i>Banksia</i> species that dominate include <i>B. prionotes</i> or <i>B. ilicifolia</i>. The patch must include at least one of these diagnostic species.</li> </ul>

Diagnostics characteristics / condition thresholds	Criteria
Vegetation condition <sup>1</sup> and minimum patch size	<ul style="list-style-type: none"> <li>• Pristine – no minimum</li> <li>• Excellent – 0.5 ha</li> <li>• Very Good – 1 ha</li> <li>• Good – 2 ha</li> </ul>
Surrounding context	A patch is a discrete and mostly continuous area of ecological community. A patch may include small scale (<30 m) variations, gaps and disturbances, such as tracks, that do not significantly alter the overall functionality of the ecological community. Such breaks are generally included in patch size calculations. The landscape and position of the patch including its position relative to surrounding vegetation also influences how important it is in the broader landscape.

### Other significant vegetation

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

- Restricted distribution
- Degree of historical impact from threatening processes
- Local endemism in restricted habitats
- Novel combinations of taxa
- A role as a refuge
- A role as a key habitat for Threatened species or large population representing a significant proportion of the local to regional total population of a species
- Being representative of a vegetation unit in ‘pristine’ condition in a highly cleared landscape, recently discovered range extensions, or isolated outliers of the main range)
- Being poorly reserved

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

### Flora and fauna

#### Conservation significant flora and fauna

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

The Federal conservation level of flora and fauna species and their significance status is assessed under the EPBC Act. The significance levels for fauna used in the EPBC Act are those recommended by the International Union for Conservation of Nature (IUCN).

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<sup>1</sup> As per the Keighery (1994) condition scale presented in Bush Forever (Government of Western Australia 2000).

Under the BC Act aligns with the EPBC Act in that flora and fauna can be Specially Protected, listed as Threatened (Critically Endangered, Endangered or Vulnerable) or Extinct in Western Australia. Threatened species are those are species which have been adequately searched for and are deemed to be, in the wild, either rare, under identifiable threat of extinction, or otherwise in need of special protection, and have been gazetted as such.

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.

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

#### [Conservation categories and definitions for EPBC Act and BC Act listed flora and fauna species](#)

Conservation category	Definition
Extinct	There is no reasonable doubt that the last member of the species has died.
Extinct in the Wild	A) A species known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or B) A species that 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 species facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria (as outlined in Environment Protection and Biodiversity Conservation Regulations 2000).
Endangered	A) A species not critically endangered; and B) A species facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria.
Vulnerable	A) A species not critically endangered or endangered; and B) A species facing a high risk of extinction in the wild in the medium-term, as determined in accordance with the prescribed criteria.

Conservation category	Definition
Conservation Dependent	<p>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</p> <p>B) The following subparagraphs are satisfied:</p> <ul style="list-style-type: none"> <li>(i) the species is a species of fish;</li> <li>(ii) the species is the focus of a plan of management that Section 180 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;</li> <li>(iii) the plan of management is in force under a law of the Commonwealth or of a State or Territory;</li> <li>(iv) cessation of the plan of management would adversely affect the conservation status of the species.</li> </ul>

#### Conservation codes for DBCA listed Priority flora and fauna

Priority category	Definition
Priority 1	<p>Poorly-known taxa</p> <p>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.</p>
Priority 2	<p>Poorly-known taxa</p> <p>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.</p>
Priority 3	<p>Poorly-known taxa</p> <p>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.</p>
Priority 4	<p>Rare, Near Threatened and other taxa in need of monitoring</p> <p>A. Rare: Taxa that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These taxa are usually represented on conservation lands.</p> <p>B. Near Threatened. Taxa that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.</p>

Priority category	Definition
	C. Taxa that have been removed from the list of threatened taxa during the past five years for reasons other than taxonomy.

### Other significant flora

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

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

Introduced plants (weeds)

### Declared Pests

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

### Weeds of National Significance

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

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

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

## References

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## APPENDIX C

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# Desktop Searches

# NatureMap Species Report

Created By Guest user on 01/08/2018

**Kingdom** Plantae  
**Current Names Only** Yes  
**Core Datasets Only** Yes  
**Method** 'By Line'  
**Vertices** 33° 23' 09" S,115° 41' 08" E 33° 24' 05" S,115° 39' 34" E 33° 24' 36" S,115° 39' 32" E 33° 25"  
**Group By** 30° S,115° 39' 27" E 33° 25' 51" S,115° 37' 37" E 33° 26' 12" S,115° 36' 57" E 33° 27' 20"  
S,115° 36' 14" E  
Family

Family	Species	Records
Aizoaceae	2	2
Amaranthaceae	2	2
Amaryllidaceae	1	1
Anarthriaceae	3	6
Apiaceae	9	32
Apocynaceae	1	1
Apodanthaceae	1	3
Aponogetonaceae	1	3
Araceae	1	1
Araliaceae	5	18
Areschougiaceae	1	1
Asparagaceae	19	63
Asphodelaceae	1	2
Asteraceae	32	70
Boryaceae	1	1
Brassicaceae	3	4
Campanulaceae	4	9
Caprifoliaceae	1	2
Caryophyllaceae	5	8
Casuarinaceae	1	2
Celastraceae	2	2
Centrolepidaceae	4	10
Chenopodiaceae	6	7
Colchicaceae	3	6
Commelinaceae	1	3
Convolvulaceae	1	1
Crassulaceae	2	3
Cyperaceae	39	74
Dasypogonaceae	1	6
Dennstaedtiaceae	1	1
Dicranaceae	1	1
Dilleniaceae	10	42
Droseraceae	12	17
Elaeocarpaceae	3	10
Ericaceae	12	27
Euphorbiaceae	4	8
Fabaceae	70	188
Funariaceae	1	1
Geraniaceae	4	7
Goodeniaceae	15	23
Haemodoraceae	13	25
Haloragaceae	3	5
Hemerocallidaceae	9	20
Hydatellaceae	3	3
Hydrocharitaceae	1	1
Hypoxidaceae	5	5
Iridaceae	5	19
Isoetaceae	1	2
Juncaceae	4	6
Juncaginaceae	5	5
Lamiaceae	1	5
Lauraceae	3	6
Lentibulariaceae	1	1
Loganiaceae	2	2
Loranthaceae	1	2
Malvaceae	1	8
Marsileaceae	1	2
Menyanthaceae	3	4
Montiaceae	1	1
Myrtaceae	28	61
Onagraceae	1	2
Orchidaceae	50	136
Orobanchaceae	3	7
Oxalidaceae	4	6
Phacelocarpaceae	1	1
Phyllanthaceae	1	8
Plantaginaceae	2	3
Poaceae	39	102
Podocarpaceae	1	1
Polygonaceae	2	2
Posidoniaceae	2	2
Potamogetonaceae	1	3
Pottiaceae	2	2

Primulaceae	3	4
Proteaceae	18	48
Ranunculaceae	2	4
Restionaceae	9	19
Rhamnaceae	2	3
Rubiaceae	7	11
Rutaceae	5	16
Santalaceae	5	7
Scrophulariaceae	2	2
Selaginellaceae	1	1
Solanaceae	2	3
Stylidiaceae	15	31
Thymelaeaceae	2	3
Urticaceae	1	5
Violaceae	1	1
Xanthorrhoeaceae	4	11
Zamiaceae	1	7
Zygophyllaceae	1	1
<b>TOTAL</b>	<b>568</b>	<b>1304</b>

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
<b>Aizoaceae</b>				
1.	2798 <i>Carpobrotus virescens</i> (Coastal Pigface, Kolboko, Bain)			
2.	2820 <i>Tetragonia decumbens</i> (Sea Spinach)	Y		
<b>Amaranthaceae</b>				
3.	25840 <i>Amaranthus blitum</i>	Y		
4.	2668 <i>Amaranthus powellii</i> (Powell's Amaranth)	Y		
<b>Amaryllidaceae</b>				
5.	1489 <i>Amaryllis belladonna</i> (Belladonna Lily)	Y		
<b>Anarthriaceae</b>				
6.	1062 <i>Anarthria prolifera</i>			
7.	1097 <i>Lyginia barbata</i>			
8.	18049 <i>Lyginia imberbis</i>			
<b>Apiaceae</b>				
9.	6203 <i>Actinotus glomeratus</i>			
10.	6218 <i>Daucus glochidiatus</i> (Australian Carrot)			
11.	6219 <i>Eryngium pinnatifidum</i> (Blue Devils)			
12.	15446 <i>Eryngium pinnatifidum</i> subsp. <i>pinnatifidum</i>			
13.	6222 <i>Homalosciadium homalocarpum</i>			
14.	6249 <i>Platysace compressa</i> (Tapeworm Plant)			
15.	11132 <i>Platysace ramosissima</i>		P3	
16.	6263 <i>Schoenolaena juncea</i>			
17.	6289 <i>Xanthosia huegelii</i>			
<b>Apocynaceae</b>				
18.	6565 <i>Alyxia buxifolia</i> (Dysentery Bush)			
<b>Apodanthaceae</b>				
19.	2408 <i>Pilosyles hamiltonii</i>			
<b>Aponogetonaceae</b>				
20.	141 <i>Aponogeton hexatepalus</i> (Stalked Water Ribbons)		P4	
<b>Araceae</b>				
21.	1049 <i>Zantedeschia aethiopica</i> (Arum Lily)	Y		
<b>Araliaceae</b>				
22.	6223 <i>Hydrocotyle alata</i>			
23.	6225 <i>Hydrocotyle bonariensis</i>	Y		
24.	6229 <i>Hydrocotyle diantha</i>			
25.	11546 <i>Hydrocotyle pilifera</i> var. <i>glabrate</i>			
26.	6280 <i>Trachymene pilosa</i> (Native Parsnip)			
<b>Areschougiaceae</b>				
27.	26854 <i>Gigartina disticha</i>			
<b>Asparagaceae</b>				
28.	1208 <i>Acanthocarpus preissii</i>			
29.	1287 <i>Dichopogon capillipes</i>			
30.	11464 <i>Laxmannia sessiliflora</i> subsp. <i>australis</i>			
31.	1223 <i>Lomandra caespitosa</i> (Tufted Mat Rush)			
32.	1228 <i>Lomandra hermaphrodita</i>			
33.	1232 <i>Lomandra micrantha</i> (Small-flower Mat-rush)			
34.	1234 <i>Lomandra nigricans</i>			
35.	1239 <i>Lomandra preissii</i>			
36.	1240 <i>Lomandra purpurea</i> (Purple Mat Rush)			
37.	1243 <i>Lomandra sericea</i> (Silky Mat Rush)			
38.	1246 <i>Lomandra suaveolens</i>			
39.	20664 <i>Ornithogalum longibracteatum</i>	Y		
40.	1312 <i>Sowerbaea laxiflora</i> (Purple Tassels)			
41.	1319 <i>Thysanotus arenarius</i>			
42.	1339 <i>Thysanotus multiflorus</i> (Many-flowered Fringe Lily)			
43.	1343 <i>Thysanotus patersonii</i>			
44.	1351 <i>Thysanotus sparteus</i>			
45.	1354 <i>Thysanotus tenellus</i>			
46.	1357 <i>Thysanotus thyrsoides</i>			
<b>Asphodelaceae</b>				
47.	1368 <i>Trachyandra divaricata</i>	Y		
<b>Asteraceae</b>				

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
48.	7829 <i>Angianthus drummondii</i>		P3	
49.	7833 <i>Angianthus preissianus</i>			
50.	7838 <i>Arctotheca calendula</i> (Cape Weed, African Marigold)	Y		
51.	7851 <i>Asteridea pulverulenta</i> (Common Bristle Daisy)			
52.	7925 <i>Chondrilla juncea</i> (Skeleton Weed)	Y		
53.	7944 <i>Cotula bipinnata</i> (Ferny Cotula)	Y		
54.	7947 <i>Cotula turbinata</i> (Funnel Weed)	Y		
55.	13354 <i>Craspedia variabilis</i>			
56.	29054 <i>Crepis foetida</i> subsp. <i>foetida</i> (Stinking Hawksbeard)	Y		
57.	15137 <i>Euchiton sphaericus</i>			
58.	12016 <i>Helianthus debilis</i> subsp. <i>cucumerifolius</i>	Y		
59.	16759 <i>Hyalosperma simplex</i> subsp. <i>simplex</i>			
60.	8086 <i>Hypochaeris glabra</i> (Smooth Catsear)	Y		
61.	8105 <i>Millotia myosotidifolia</i>			
62.	8127 <i>Olearia axillaris</i> (Coastal Daisybush)			
63.	8133 <i>Olearia elaeophila</i>			
64.	14371 <i>Picris angustifolia</i>			
65.	8160 <i>Picris squarrosa</i>			
66.	42281 <i>Pithocarpa cordata</i>			
67.	8175 <i>Podolepis gracilis</i> (Slender Podolepis)			
68.	8179 <i>Podolepis nutans</i> (Nodding Podolepis)			
69.	8189 <i>Pseudognaphalium luteoalbum</i> (Jersey Cudweed)			
70.	13300 <i>Rhodanthe citrina</i>			
71.	20663 <i>Senecio multicaulis</i> subsp. <i>multicaulis</i>			
72.	20161 <i>Senecio pinnatifolius</i>			
73.	8225 <i>Siloxerus humifusus</i> (Procumbent Siloxerus)			
74.	9367 <i>Sonchus hydrophilus</i> (Native Sowthistle)	Y		
75.	8231 <i>Sonchus oleraceus</i> (Common Sowthistle)	Y		
76.	8255 <i>Ursinia anthemoides</i> (Ursinia)	Y		
77.	38388 <i>Ursinia anthemoides</i> subsp. <i>anthemoides</i>	Y		
78.	8257 <i>Vellereophyton dealbatum</i> (White Cudweed)	Y		
79.	8282 <i>Waitzia suaveolens</i> (Fragrant Waitzia)			

#### Boryaceae

80. 1272 *Borya scirpoidea*

#### Brassicaceae

81. 3000 *Brassica tournefortii* (Mediterranean Turnip) Y  
 82. 3002 *Cakile maritima* (Sea Rocket) Y  
 83. 19403 *Stenopetalum gracile*

#### Campanulaceae

84. 37500 *Grammatotheca bergiana* var. *bergiana* Y  
 85. 7408 *Lobelia tenuior* (Slender Lobelia) Y  
 86. 37440 *Monopsis debilis* var. *depressa* Y  
 87. 7389 *Wahlenbergia preissii*

#### Caprifoliaceae

88. 7366 *Centranthus macrosiphon* Y

#### Caryophyllaceae

89. 2889 *Cerastium glomeratum* (Mouse Ear Chickweed) Y  
 90. 2891 *Corrigiola litoralis* (Strapwort) Y  
 91. 19825 *Petrorhagia dubia* Y  
 92. 2909 *Silene gallica* (French Catchfly) Y  
 93. 15972 *Silene gallica* var. *gallica* Y

#### Casuarinaceae

94. 1732 *Allocasuarina humilis* (Dwarf Sheoak)

#### Celastraceae

95. 4733 *Stackhousia monogyna*  
 96. 4737 *Tripterococcus brunonis* (Winged Stackhousia)

#### Centrolepidaceae

97. 1117 *Aphelia cyperoides*  
 98. 1121 *Centrolepis aristata* (Pointed Centrolepis)  
 99. 1125 *Centrolepis drummondiana*  
 100. 1134 *Centrolepis polygyna* (Wiry Centrolepis)

#### Chenopodiaceae

101. 2483 *Chenopodium album* (Fat Hen) Y  
 102. 2491 *Chenopodium macrospermum* Y  
 103. 2578 *Rhagodia baccata* (Berry Saltbush)  
 104. 11341 *Rhagodia baccata* subsp. *baccata*

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
105.	11930 <i>Rhagodia baccata</i> subsp. <i>dioica</i> (Sea Berry Saltbush)			
106.	2644 <i>Threlkeldia diffusa</i> (Coast Bornefruit)			
<b>Colchicaceae</b>				
107.	12770 <i>Burchardia congesta</i>			
108.	1385 <i>Burchardia multiflora</i> (Dwarf Burchardia)			
109.	12072 <i>Wurmbea dioica</i> subsp. <i>alba</i>			
<b>Commelinaceae</b>				
110.	1162 <i>Cartonema philydroides</i>			
<b>Convolvulaceae</b>				
111.	6616 <i>Dichondra repens</i> (Kidney Weed)			
<b>Crassulaceae</b>				
112.	3137 <i>Crassula colorata</i> (Dense Stonecrop)			
113.	11563 <i>Crassula colorata</i> var. <i>colorata</i>			
<b>Cyperaceae</b>				
114.	743 <i>Baumea juncea</i> (Bare Twigrush)			
115.	748 <i>Baumea vaginalis</i> (Sheath Twigrush)			
116.	759 <i>Carex tereticaulis</i>		P3	
117.	43241 <i>Carex thecata</i>			
118.	768 <i>Cyathochaeta avenacea</i>		Y	
119.	792 <i>Cyperus eragrostis</i> (Umbrella Sedge)			
120.	822 <i>Eleocharis acuta</i> (Common Spikerush)			
121.	835 <i>Evandra pauciflora</i>			
122.	20216 <i>Ficinia nodosa</i> (Knotted Club Rush)			
123.	907 <i>Gahnia trifida</i> (Coast Saw-sedge)			
124.	20200 <i>Isolepis cernua</i> var. <i>setiformis</i>			
125.	912 <i>Isolepis cyperoides</i>			
126.	917 <i>Isolepis marginata</i> (Coarse Club-rush)			
127.	919 <i>Isolepis oldfieldiana</i>			
128.	925 <i>Lepidosperma angustatum</i>			
129.	42742 <i>Lepidosperma calcicola</i>			
130.	930 <i>Lepidosperma costale</i>			
131.	932 <i>Lepidosperma effusum</i> (Spreading Sword-sedge)			
132.	933 <i>Lepidosperma gladiatum</i> (Coast Sword-sedge, Kerbin)			
133.	937 <i>Lepidosperma longitudinale</i> (Pithy Sword-sedge)			
134.	940 <i>Lepidosperma pubisquamum</i>			
135.	<i>Lepidosperma</i> sp.			
136.	20398 <i>Lepidosperma</i> sp. Blackwood (R. Davis 7696)			
137.	29150 <i>Lepidosperma</i> sp. Margaret River (B.J. Lepschi 1841)			
138.	945 <i>Lepidosperma squamatum</i>			
139.	946 <i>Lepidosperma striatum</i>			
140.	957 <i>Mesomelaena tetragona</i> (Semaphore Sedge)			
141.	973 <i>Schoenus asperocarpus</i> (Poison Sedge)			
142.	974 <i>Schoenus benthamii</i>		P3	
143.	986 <i>Schoenus efoliatus</i>			
144.	992 <i>Schoenus grandiflorus</i> (Large Flowered Bogrush)			
145.	996 <i>Schoenus laevigatus</i>			
146.	999 <i>Schoenus loliaceus</i>		P2	
147.	17614 <i>Schoenus plumosus</i>			
148.	1011 <i>Schoenus rigens</i>			
149.	1013 <i>Schoenus sculptus</i> (Gimlet Bog-rush)			
150.	1020 <i>Schoenus sublateralis</i>			
151.	17409 <i>Schoenus varicellae</i>			
152.	1036 <i>Tetraparia octandra</i>			
<b>Dasypogonaceae</b>				
153.	1218 <i>Dasypogon bromeliifolius</i> (Pineapple Bush)			
<b>Dennstaedtiaceae</b>				
154.	41651 <i>Pteridium esculentum</i> subsp. <i>esculentum</i>			
<b>Dicranaceae</b>				
155.	32338 <i>Campylopus introflexus</i>		Y	
<b>Dilleniaceae</b>				
156.	5109 <i>Hibbertia amplexicaulis</i>			
157.	5117 <i>Hibbertia cuneiformis</i> (Cutleaf Hibbertia)			
158.	5118 <i>Hibbertia cunninghamii</i>			
159.	20051 <i>Hibbertia diamesogenos</i>			
160.	5135 <i>Hibbertia hypericoides</i> (Yellow Buttercups)			
161.	45534 <i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
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162.	5162 <i>Hibbertia racemosa</i> (Stalked Guinea Flower)
163.	5172 <i>Hibbertia stellaris</i> (Orange Stars)
164.	5173 <i>Hibbertia subvaginata</i>
165.	5176 <i>Hibbertia vaginata</i>

#### Droseraceae

166.	3095 <i>Drosera erythrorhiza</i> (Red Ink Sundew)
167.	13217 <i>Drosera erythrorhiza</i> subsp. <i>erythrorhiza</i>
168.	3097 <i>Drosera gigantea</i> (Giant Sundew)
169.	14298 <i>Drosera macrantha</i> subsp. <i>macrantha</i>
170.	3108 <i>Drosera marchantii</i>
171.	13209 <i>Drosera marchantii</i> subsp. <i>marchantii</i>
172.	48710 <i>Drosera micrantha</i>
173.	3118 <i>Drosera pallida</i> (Pale Rainbow)
174.	8911 <i>Drosera rosulata</i>
175.	13385 <i>Drosera stelliflora</i>
176.	3131 <i>Drosera stolonifera</i> (Leafy Sundew)
177.	13205 <i>Drosera tubaestylis</i>

#### Elaeocarpaceae

178.	4524 <i>Platytheca galloides</i>
179.	4535 <i>Tetratheca hirsuta</i> (Black Eyed Susan)
180.	48341 <i>Tetratheca hirsuta</i> subsp. <i>viminea</i>

#### Ericaceae

181.	6306 <i>Andersonia caerulea</i> (Foxtails)
182.	6323 <i>Astroloma ciliatum</i> (Candle Cranberry)
183.	6334 <i>Astroloma pallidum</i> (Kick Bush)
184.	6348 <i>Conostephium pendulum</i> (Pearl Flower)
185.	6360 <i>Leucopogon australis</i> (Spiked Beard-heath)
186.	6374 <i>Leucopogon conostephoides</i>
187.	6375 <i>Leucopogon cordatus</i>
188.	6427 <i>Leucopogon parviflorus</i> (Coast Beard-heath)
189.	6436 <i>Leucopogon propinquus</i>
190.	6440 <i>Leucopogon racemulosus</i>
191.	29492 <i>Leucopogon</i> sp. Busselton (D. Cooper 243)
192.	34736 <i>Lysinema pentapetalum</i>

P2

#### Euphorbiaceae

193.	4585 <i>Amperea ericoides</i>
194.	4636 <i>Euphorbia paralias</i> (Sea Spurge)
195.	4666 <i>Monotaxis occidentalis</i>
196.	20537 <i>Stachystemon virgatus</i>

Y

#### Fabaceae

197.	3207 <i>Acacia alata</i> (Winged Wattle)
198.	15466 <i>Acacia appianata</i>
199.	3262 <i>Acacia cochlearis</i> (Rigid Wattle)
200.	3282 <i>Acacia cyclops</i> (Coastal Wattle)
201.	3331 <i>Acacia extensa</i> (Wiry Wattle)
202.	3339 <i>Acacia flagelliformis</i>
203.	3374 <i>Acacia huegelii</i>
204.	3383 <i>Acacia incurva</i>
205.	17861 <i>Acacia longifolia</i>
206.	3442 <i>Acacia microbotrys</i> (Manna Wattle, Kalyang)
207.	17860 <i>Acacia podalyriifolia</i>
208.	3502 <i>Acacia pulchella</i> (Prickly Moses)
209.	15481 <i>Acacia pulchella</i> var. <i>glaberrima</i>
210.	15482 <i>Acacia pulchella</i> var. <i>goadbyi</i>
211.	3504 <i>Acacia pycnantha</i> (Golden Wattle)
212.	3527 <i>Acacia saligna</i> (Orange Wattle, Kudjong)
213.	30036 <i>Acacia saligna</i> subsp. <i>stolonifera</i>
214.	3537 <i>Acacia semitrullata</i>
215.	3557 <i>Acacia stenoptera</i> (Narrow Winged Wattle)
216.	3576 <i>Acacia tetragonocarpa</i>
217.	3602 <i>Acacia willdenowiana</i> (Grass Wattle)
218.	3688 <i>Aotus gracillima</i>
219.	3692 <i>Aotus procumbens</i>
220.	3710 <i>Bossiaea eriocarpa</i> (Common Brown Pea)
221.	8971 <i>Chorizema cordatum</i>
222.	3793 <i>Daviesia angulata</i>
223.	19747 <i>Daviesia decurrens</i> subsp. <i>decurrens</i>
224.	3807 <i>Daviesia divaricata</i> (Marno)

P4

Y

Y

Y

P4

Name ID	Species Name	Naturalised	Conservation Code	¹Endemic To Query Area
225.	<i>Daviesia physodes</i>			
226.	<i>Daviesia preissii</i>			
227.	<i>Euchilopsis linearis</i> (Swamp Pea)			
228.	<i>Eutaxia epacridooides</i>			
229.	<i>Eutaxia virgata</i>			
230.	<i>Gastrolobium capitatum</i>			
231.	<i>Gastrolobium cuneatum</i>			
232.	<i>Gastrolobium ebracteolatum</i>		P2	
233.	<i>Gastrolobium whicherense</i>			
234.	<i>Gompholobium capitatum</i>			
235.	<i>Gompholobium shuttleworthii</i>			
236.	<i>Gompholobium tomentosum</i> (Hairy Yellow Pea)			
237.	<i>Hardenbergia comptoniana</i> (Native Wisteria)			
238.	<i>Hovea chorizemifolia</i> (Holly-leaved Hovea)			
239.	<i>Hovea trisperma</i> (Common Hovea)			
240.	<i>Hovea trisperma</i> var. <i>trisperma</i>			
241.	<i>Isotropis cuneifolia</i> (Granny Bonnets)			
242.	<i>Jacksonia furcellata</i> (Grey Stinkwood)			
243.	<i>Jacksonia horrida</i>			
244.	<i>Jacksonia sternbergiana</i> (Stinkwood, Kapur)			
245.	<i>Kennedia coccinea</i> subsp. <i>calcaria</i>			
246.	<i>Kennedia prostrata</i> (Scarlet Runner)			
247.	<i>Kennedia rubicunda</i>			
248.	<i>Latrobea tenella</i>			
249.	<i>Lotus angustissimus</i> (Narrowleaf Trefoil)	Y		
250.	<i>Lotus subbiflorus</i>	Y		
251.	<i>Lupinus angustifolius</i> (Narrowleaf Lupin)	Y		
252.	<i>Lupinus luteus</i> (Yellow Lupin)	Y		
253.	<i>Medicago polymorpha</i> (Burr Medic)	Y		
254.	<i>Melilotus indicus</i>	Y		
255.	<i>Ornithopus compressus</i> (Yellow Serradella)	Y		
256.	<i>Paraserianthes lophantha</i> (Albizia)			
257.	<i>Pultenaea Skinneri</i> (Skinner's Pea)	P4		
258.	<i>Retama raetam</i>	Y		
259.	<i>Trifolium campestre</i> (Hop Clover)	Y		
260.	<i>Trifolium cernuum</i> (Drooping Flower Clover)	Y		
261.	<i>Trifolium glomeratum</i> (Cluster Clover)	Y		
262.	<i>Trifolium hirtum</i> (Rose Clover)	Y		
263.	<i>Trifolium subterraneum</i> (Subterranean Clover)	Y		
264.	<i>Vicia hirsuta</i> (Hairy Vetch)	Y		
265.	<i>Vicia sativa</i> (Common Vetch)	Y		
266.	<i>Vicia sativa</i> subsp. <i>nigra</i>	Y		

#### Funariaceae

267.	<i>Funaria hygrometrica</i>
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#### Geraniaceae

268.	<i>Erodium botrys</i> (Long Storksbill)	Y
269.	<i>Erodium cicutarium</i> (Common Storksbill)	Y
270.	<i>Geranium molle</i> (Dove's Foot Cranesbill)	Y
271.	<i>Geranium retrorsum</i>	

#### Goodeniaceae

272.	<i>Anthotium junciforme</i>
273.	<i>Dampiera coronata</i> (Wedge-leaved Dampiera)
274.	<i>Dampiera linearis</i> (Common Dampiera)
275.	<i>Dampiera pedunculata</i>
276.	<i>Goodenia eatoniana</i>
277.	<i>Goodenia incana</i> (Hoary Goodenia)
278.	<i>Goodenia micrantha</i>
279.	<i>Goodenia pulchella</i>
280.	<i>Goodenia pulchella</i> subsp. <i>Coastal Plain A</i> (M. Hislop 634)
281.	<i>Goodenia pulchella</i> subsp. <i>Coastal Plain B</i> (L.W. Sage 2336)
282.	<i>Lechenaultia expansa</i>
283.	<i>Scaevola anchusifolia</i>
284.	<i>Scaevola calliptera</i>
285.	<i>Scaevola crassifolia</i> (Thick-leaved Fan-flower)
286.	<i>Scaevola lanceolata</i> (Long-leaved Scaevola)

#### Haemodoraceae

287.	<i>Anigozanthos manglesii</i> (Mangles Kangaroo Paw, Kurulbrang)
288.	<i>Anigozanthos manglesii</i> var. <i>x angustifolius</i>

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
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289.	1416 <i>Anigozanthos viridis</i> ( <i>Green Kangaroo Paw, Kurulbardang</i> )			
290.	1418 <i>Conostylis aculeata</i> ( <i>Prickly Conostylis</i> )			
291.	11826 <i>Conostylis aculeata</i> subsp. <i>aculeata</i>			
292.	12118 <i>Conostylis aculeata</i> subsp. <i>gracilis</i>			
293.	12109 <i>Conostylis aculeata</i> subsp. <i>preissii</i>			
294.	1453 <i>Conostylis serrulata</i>			
295.	1472 <i>Haemodorum simplex</i>			
296.	1478 <i>Phlebocarya ciliata</i>			
297.	1481 <i>Tribonanthes australis</i>			
298.	1482 <i>Tribonanthes brachypetala</i>			
299.	1483 <i>Tribonanthes longipetala</i>			

#### Haloragaceae

300.	6159 <i>Gonocarpus nodulosus</i>			
301.	6189 <i>Myriophyllum crispatum</i>			
302.	6199 <i>Myriophyllum tillaeoides</i>			

#### Hemerocallidaceae

303.	1261 <i>Agrostocrinum scabrum</i> ( <i>Blue Grass Lily</i> )			
304.	1276 <i>Caesia micrantha</i> ( <i>Pale Grass Lily</i> )			
305.	1277 <i>Caesia occidentalis</i>			
306.	1285 <i>Corynotheca micrantha</i> ( <i>Sand Lily</i> )			
307.	11283 <i>Corynotheca micrantha</i> var. <i>micrantha</i>			
308.	16326 <i>Dianella brevicaulis</i>			
309.	1259 <i>Dianella revoluta</i> ( <i>Blueberry Lily</i> )			
310.	1295 <i>Johnsonia acaulis</i>			
311.	1361 <i>Tricoryne elatior</i> ( <i>Yellow Autumn Lily</i> )			

#### Hydatellaceae

312.	33019 <i>Trithuria australis</i>	P4		
313.	1139 <i>Trithuria bibracteata</i>			
314.	1141 <i>Trithuria submersa</i>			

#### Hydrocharitaceae

315.	14531 <i>Ottelia ovalifolia</i> subsp. <i>ovalifolia</i>			
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#### Hypoxidaceae

316.	43763 <i>Pauridia glabella</i>			
317.	43760 <i>Pauridia occidentalis</i>			
318.	43761 <i>Pauridia occidentalis</i> var. <i>occidentalis</i>			
319.	43762 <i>Pauridia occidentalis</i> var. <i>quadriloba</i>			
320.	43782 <i>Pauridia vaginata</i> var. <i>vaginata</i>			

#### Iridaceae

321.	18392 <i>Freesia alba</i> x <i>leichlinii</i>	Y		
322.	19179 <i>Moraea flaccida</i> ( <i>One-leaf Cape Tulip</i> )	Y		
323.	1537 <i>Orthrosanthus lexus</i> ( <i>Morning Iris</i> )			
324.	1550 <i>Patersonia occidentalis</i> ( <i>Purple Flag, Koma</i> )			
325.	1556 <i>Romulea rosea</i> ( <i>Guildford Grass</i> )	Y		

#### Isoetaceae

326.	11 <i>Isoetes drummondii</i> ( <i>Quillwort</i> )			
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#### Juncaceae

327.	1178 <i>Juncus bufonius</i> ( <i>Toad Rush</i> )	Y		
328.	1179 <i>Juncus caespiticius</i> ( <i>Grassy Rush</i> )			
329.	1180 <i>Juncus capitatus</i> ( <i>Capitate Rush</i> )			
330.	1198 <i>Luzula meridionalis</i> ( <i>Field Woodrush</i> )	Y		

#### Juncaginaceae

331.	40661 <i>Cycnogeton lineare</i>			
332.	33276 <i>Triglochin isingiana</i>			
333.	147 <i>Triglochin mucronata</i>			
334.	18587 <i>Triglochin nana</i>			
335.	152 <i>Triglochin trichophora</i>			

#### Lamiaceae

336.	6839 <i>Hemiandra pungens</i> ( <i>Snakebush</i> )			
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#### Lauroceae

337.	11501 <i>Cassytha glabella</i> forma <i>casuarinae</i>			
338.	2957 <i>Cassytha racemosa</i> ( <i>Dodder Laurel</i> )			
339.	11799 <i>Cassytha racemosa</i> forma <i>racemosa</i>			

#### Lentibulariaceae

340.	7145 <i>Utricularia menziesii</i> ( <i>Redcoats</i> )			
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Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
<b>Loganiaceae</b>				
341.	<i>Adelphacme minima</i>		P3	
342.	<i>Phyllangium divergens</i>			
<b>Loranthaceae</b>				
343.	<i>Nuytsia floribunda</i> ( <i>Christmas Tree, Mudja</i> )			
<b>Malvaceae</b>				
344.	<i>Lasiopetalum membranaceum</i>		P3	
<b>Marsileaceae</b>				
345.	<i>Pilularia novae-hollandiae</i> ( <i>Austral Pillwort</i> )			
<b>Menyanthaceae</b>				
346.	<i>Liparophyllum capitatum</i>			
347.	<i>Ornduffia parnassifolia</i>			
348.	<i>Ornduffia submersa</i>		P4	
<b>Montiaceae</b>				
349.	<i>Calandrinia brevipedata</i> ( <i>Short-stalked Purslane</i> )			
<b>Myrtaceae</b>				
350.	<i>Agonis flexuosa</i> ( <i>Peppermint, Wonil</i> )			
351.	<i>Agonis flexuosa</i> var. <i>flexuosa</i>			
352.	<i>Astartea affinis</i> ( <i>West-coast Astartea</i> )			
353.	<i>Astartea scoparia</i> ( <i>Common Astartea</i> )			
354.	<i>Astartea zephyra</i>			
355.	<i>Calothamnus lateralis</i>			
356.	<i>Calothamnus lateralis</i> var. <i>lateralis</i>			
357.	<i>Calytrix flavescens</i> ( <i>Summer Starflower</i> )			
358.	<i>Calytrix fraseri</i> ( <i>Pink Summer Calytrix</i> )			
359.	<i>Eucalyptus gomphocephala</i> ( <i>Tuart, Duart</i> )			
360.	<i>Eucalyptus marginata</i> ( <i>Jarrahd, Djara</i> )			
361.	<i>Eucalyptus rudis</i> ( <i>Flooded Gum, Kulurda</i> )			
362.	<i>Eucalyptus rudis</i> subsp. <i>cratyantha</i>		P4	
363.	<i>Hypocalymma angustifolium</i> ( <i>White Myrtle, Kudjid</i> )			
364.	<i>Hypocalymma angustifolium</i> subsp. <i>Swan Coastal Plain</i> (G.J. Keighery 16777)			
365.	<i>Kunzea ericifolia</i> ( <i>Spearwood, Pondil</i> )			
366.	<i>Kunzea micrantha</i> subsp. <i>micrantha</i>			
367.	<i>Kunzea recurva</i>			
368.	<i>Melaleuca lateritia</i> ( <i>Robin Redbreast Bush</i> )			
369.	<i>Melaleuca osullivanii</i>			
370.	<i>Melaleuca pauciflora</i>			
371.	<i>Melaleuca preissiana</i> ( <i>Moonah</i> )			
372.	<i>Melaleuca rhiphiophylla</i> ( <i>Swamp Paperbark</i> )			
373.	<i>Melaleuca teretifolia</i> ( <i>Banbar</i> )			
374.	<i>Melaleuca thymoides</i>			
375.	<i>Pericalymma ellipticum</i> ( <i>Swamp Teatree</i> )			
376.	<i>Pericalymma ellipticum</i> var. <i>ellipticum</i>			
377.	<i>Verticordia attenuata</i>		P3	
<b>Onagraceae</b>				
378.	<i>Oenothera mollissima</i>	Y		
<b>Orchidaceae</b>				
379.	<i>Caladenia attingenii</i> subsp. <i>attingenii</i>			
380.	<i>Caladenia chapmanii</i>			
381.	<i>Caladenia discoidea</i> ( <i>Dancing Orchid</i> )			
382.	<i>Caladenia flava</i> ( <i>Cowslip Orchid</i> )			
383.	<i>Caladenia flava</i> subsp. <i>flava</i>			
384.	<i>Caladenia georgei</i>			
385.	<i>Caladenia hirta</i> subsp. <i>hirta</i>			
386.	<i>Caladenia huegelii</i> ( <i>Grand Spider Orchid</i> )		T	
387.	<i>Caladenia latifolia</i> ( <i>Pink Fairy Orchid</i> )			
388.	<i>Caladenia longicauda</i> ( <i>Common White Spider Orchid</i> )			
389.	<i>Caladenia longicauda</i> subsp. <i>clivicola</i>			
390.	<i>Caladenia nana</i> subsp. <i>nana</i>			
391.	<i>Caladenia nobilis</i>			
392.	<i>Caladenia paludosa</i>			
393.	<i>Caladenia pendens</i> subsp. <i>pendens</i>			
394.	<i>Caladenia reptans</i> subsp. <i>reptans</i>			
395.	<i>Caladenia speciosa</i>		P4	
396.	<i>Caladenia vulgaris</i>			
397.	<i>Cyanicula gemmata</i>			

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
398.	15404 <i>Cyanicula sericea</i>			
399.	10916 <i>Cyrtostylis huegelli</i>			
400.	19649 <i>Disa bracteata</i>	Y		
401.	10796 <i>Diuris drummondii</i> ( <i>Tall Donkey Orchid</i> )		T	
402.	48253 <i>Diuris porphyrochila</i>			
403.	11156 <i>Drakaea livida</i>			
404.	13635 <i>Drakaea micrantha</i>		T	
405.	1643 <i>Elythranthera brunonis</i> ( <i>Purple Enamel Orchid</i> )			
406.	1646 <i>Eriochilus dilatatus</i> ( <i>White Bunny Orchid</i> )			
407.	15412 <i>Eriochilus dilatatus</i> subsp. <i>multiflorus</i>			
408.	1653 <i>Leporella fimbriata</i> ( <i>Hare Orchid</i> )			
409.	10954 <i>Microtis media</i> ( <i>Tall Mignonette Orchid</i> )			
410.	15419 <i>Microtis media</i> subsp. <i>media</i>			
411.	1667 <i>Paracaleana nigrita</i> ( <i>Flying Duck Orchid</i> )			
412.	1674 <i>Prasophyllum giganteum</i> ( <i>Bronze Leek Orchid</i> )			
413.	10853 <i>Prasophyllum plumiforme</i>			
414.	44084 <i>Prasophyllum</i> sp. early (G. Brockman GBB 1626)			
415.	<i>Pterostylis aff. nana</i>			
416.	1685 <i>Pterostylis angusta</i>			
417.	15426 <i>Pterostylis aspera</i>			
418.	17267 <i>Pterostylis brevisepala</i>			
419.	11054 <i>Pterostylis hamiltonii</i> ( <i>Red-veined Shell Orchid</i> )			
420.	11118 <i>Pterostylis pyramidalis</i> ( <i>Snail Orchid</i> )			
421.	1693 <i>Pterostylis recurva</i> ( <i>Jug Orchid</i> )			
422.	1694 <i>Pterostylis rogersii</i> ( <i>Curled-tongue Shell Orchid</i> )			
423.	18655 <i>Pterostylis</i> sp. crinkled leaf (G.J. Keighery 13426)			
424.	1698 <i>Pterostylis vittata</i> ( <i>Banded Greenhood</i> )			
425.	1705 <i>Thelymitra crinita</i> ( <i>Blue Lady Orchid</i> )			
426.	1708 <i>Thelymitra fuscolutea</i> ( <i>Chestnut Sun Orchid</i> )			
427.	20730 <i>Thelymitra paludosa</i>			
428.	1717 <i>Thelymitra variegata</i> ( <i>Queen of Sheba</i> )		P2	

#### Orobanchaceae

429.	7122 <i>Orobanche minor</i> ( <i>Lesser Broomrape</i> )	Y
430.	7089 <i>Parentucellia latifolia</i> ( <i>Common Bartsia</i> )	Y
431.	7090 <i>Parentucellia viscosa</i> ( <i>Sticky Bartsia</i> )	Y

#### Oxalidaceae

432.	4352 <i>Oxalis glabra</i>	Y
433.	4354 <i>Oxalis incarnata</i>	Y
434.	4355 <i>Oxalis perennans</i>	
435.	4356 <i>Oxalis pes-caprae</i> ( <i>Soursob</i> )	Y

#### Phacelocarpaceae

436.	27131 <i>Phacelocarpus alatus</i>
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#### Phyllanthaceae

437.	4675 <i>Phyllanthus calycinus</i> ( <i>False Boronia</i> )
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#### Plantaginaceae

438.	14282 <i>Gratiola pubescens</i>	
439.	7108 <i>Veronica arvensis</i> ( <i>Wall Speedwell</i> )	Y

#### Poaceae

440.	184 <i>Aira caryophyllea</i> ( <i>Silvery Hairgrass</i> )	Y
441.	186 <i>Aira elegantissima</i>	Y
442.	13380 <i>Amphibromus nervosus</i>	
443.	200 <i>Amphipogon turbinatus</i>	
444.	202 <i>Anthoxanthum odoratum</i> ( <i>Sweet Vernal Grass</i> )	Y
445.	38480 <i>Austrostipa bronwenae</i>	T
446.	17233 <i>Austrostipa campylachne</i>	
447.	17234 <i>Austrostipa compressa</i>	
448.	17240 <i>Austrostipa flavescens</i>	
449.	38481 <i>Austrostipa jacobsiana</i>	T
450.	17253 <i>Austrostipa semibarbata</i>	
451.	231 <i>Avellinia michelii</i>	Y
452.	233 <i>Avena barbata</i> ( <i>Bearded Oat</i> )	Y
453.	234 <i>Avena fatua</i> ( <i>Wild Oat</i> )	Y
454.	244 <i>Briza maxima</i> ( <i>Blowfly Grass</i> )	Y
455.	245 <i>Briza minor</i> ( <i>Shivery Grass</i> )	Y
456.	247 <i>Bromus arenarius</i> ( <i>Sand Brome</i> )	
457.	249 <i>Bromus diandrus</i> ( <i>Great Brome</i> )	Y
458.	48259 <i>Cortaderia selloana</i> subsp. <i>selloana</i>	Y

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
459.	299 <i>Deyeuxia quadriseta</i> (Reed Bentgrass)			
460.	306 <i>Dichelachne crinita</i> (Longhair Plumegrass)			
461.	347 <i>Ehrharta calycina</i> (Perennial Veldt Grass)	Y		
462.	349 <i>Ehrharta longiflora</i> (Annual Veldt Grass)	Y		
463.	376 <i>Eragrostis curvula</i> (African Lovegrass)	Y		
464.	444 <i>Holcus lanatus</i> (Yorkshire Fog)	Y		
465.	19955 <i>Lachnagrostis plebeia</i>			
466.	467 <i>Lagurus ovatus</i> (Hare's Tail Grass)	Y		
467.	478 <i>Lolium rigidum</i> (Wimmera Ryegrass)	Y		
468.	11073 <i>Lolium x hybridum</i>	Y		
469.	485 <i>Microlaena stipoides</i> (Weeping Grass)			
470.	573 <i>Poa drummondiana</i> (Knotted Poa)			
471.	577 <i>Poa poiformis</i> (Coastal Poa)			
472.	583 <i>Polypogon tenellus</i>			
473.	40426 <i>Rytidosperma occidentale</i>			
474.	625 <i>Spinifex longifolius</i> (Beach Spinifex)			
475.	636 <i>Stenotaphrum secundatum</i> (Buffalo Grass)	Y		
476.	722 <i>Vulpia bromoides</i> (Squirrel Tail Fescue)	Y		
477.	11137 <i>Vulpia fasciculata</i>	Y		
478.	724 <i>Vulpia myuros</i> (Rat's Tail Fescue)	Y		
<b>Podocarpaceae</b>				
479.	86 <i>Podocarpus drouynianus</i> (Wild Plum, Kula)			
<b>Polygalaceae</b>				
480.	4554 <i>Comesperma flavum</i>			
481.	4564 <i>Comesperma virgatum</i> (Milkwort)			
<b>Polygonaceae</b>				
482.	13911 <i>Persicaria decipiens</i>			
483.	2429 <i>Rumex acetosella</i> (Sorrel)	Y		
<b>Posidoniaceae</b>				
484.	122 <i>Posidonia angustifolia</i>			
<b>Potamogetonaceae</b>				
485.	110 <i>Potamogeton drummondii</i>			
<b>Pottiaceae</b>				
486.	32315 <i>Barbula calycina</i>			
487.	32439 <i>Syntrichia papillosa</i>			
<b>Primulaceae</b>				
488.	36375 <i>Lysimachia arvensis</i> (Pimpernel)	Y		
489.	6483 <i>Samolus junceus</i>			
490.	6484 <i>Samolus repens</i> (Creeping Brookweed)			
<b>Proteaceae</b>				
491.	1790 <i>Adenanthes meisneri</i>			
492.	1791 <i>Adenanthes obovatus</i> (Basket Flower)			
493.	1800 <i>Banksia attenuata</i> (Slender Banksia, Piara)			
494.	1822 <i>Banksia ilicifolia</i> (Holly-leaved Banksia)			
495.	1830 <i>Banksia littoralis</i> (Swamp Banksia, Pungura)			
496.	1863 <i>Conospermum capitatum</i>			
497.	1945 <i>Franklandia triaristata</i> (Lanoline Bush)	P4		
498.	19628 <i>Grevillea bipinnatifida</i> subsp. <i>bipinnatifida</i>			
499.	13427 <i>Grevillea manglesioides</i> subsp. <i>manglesioides</i>			
500.	2119 <i>Grevillea vestita</i>			
501.	2216 <i>Hakea varia</i> (Variable-leaved Hakea)			
502.	2267 <i>Persoonia longifolia</i> (Snottygobble)			
503.	2273 <i>Persoonia saccata</i> (Snottygobble)			
504.	2299 <i>Petrophile linearis</i> (Pixie Mops)			
505.	2316 <i>Stirlingia latifolia</i> (Blueboy)			
506.	16769 <i>Synaphea hiems</i>	P3		
507.	2326 <i>Synaphea polymorpha</i> (Albany Synaphea, Pinda)			
508.	2331 <i>Xylomelum occidentale</i> (Woody Pear, Djandin)			
<b>Ranunculaceae</b>				
509.	2932 <i>Ranunculus colonorum</i> (Common Buttercup)			
510.	2935 <i>Ranunculus pumilio</i> (Smallflower Buttercup)			
<b>Restionaceae</b>				
511.	17691 <i>Desmocladius fasciculatus</i>			
512.	1070 <i>Hypolaena exsulca</i>			
513.	1071 <i>Hypolaena fastigiata</i>			



# 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: 30/07/18 18:47:57

[Summary](#)

[Details](#)

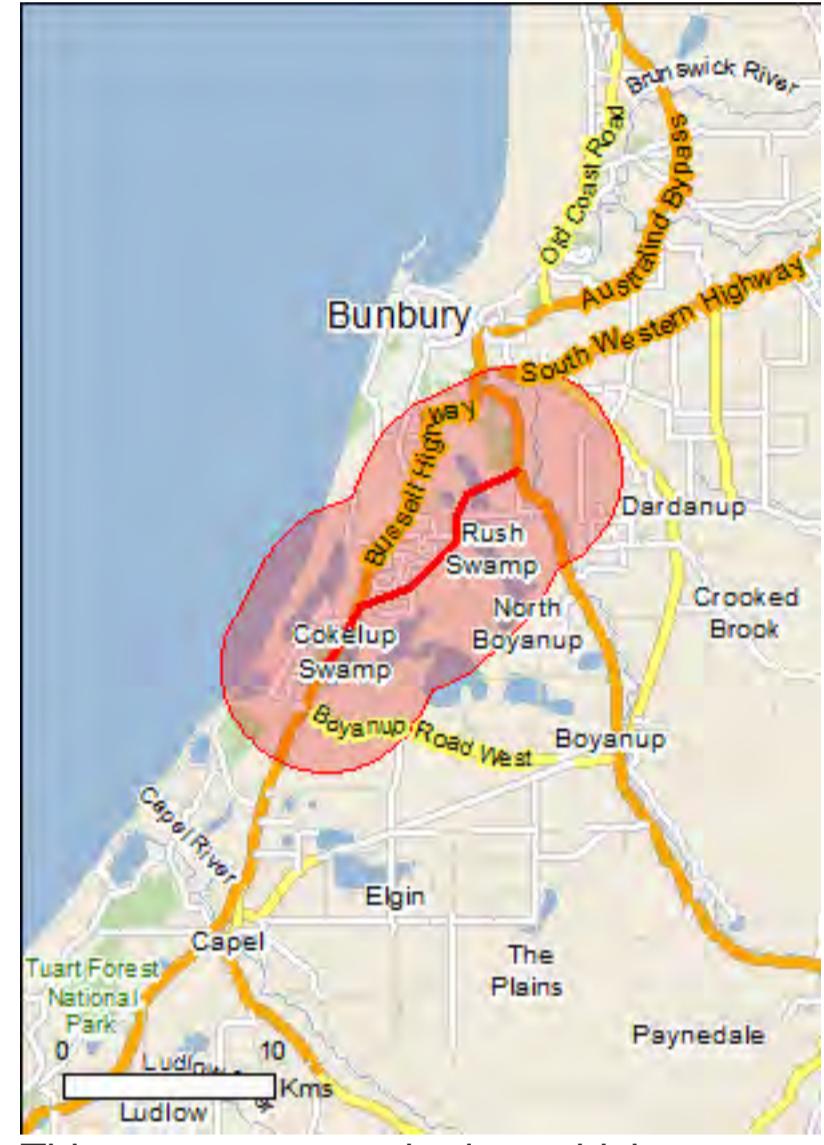
[Matters of NES](#)

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

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)



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[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>	2
<a href="#">Listed Threatened Species:</a>	64
<a href="#">Listed Migratory Species:</a>	42

## 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>	67
<a href="#">Whales and Other Cetaceans:</a>	13
<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>	2
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Invasive Species:</a>	31
<a href="#">Nationally Important Wetlands:</a>	None
<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

### Listed Threatened Species

[ [Resource Information](#) ]

Name	Status	Type of Presence
Birds		
<a href="#">Anous tenuirostris melanops</a>	Vulnerable	Species or species habitat may occur within area
Australian Lesser Noddy [26000]	Endangered	Species or species habitat may occur within area
<a href="#">Botaurus poiciloptilus</a>	Endangered	Species or species habitat known to occur within area
Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris canutus</a>	Endangered	Species or species habitat known to occur within area
Red Knot, Knot [855]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#">Calidris ferruginea</a>	Critically Endangered	Species or species habitat known to occur within area
Curlew Sandpiper [856]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Calyptorhynchus banksii naso</a>	Endangered	Breeding known to occur within area
Forest Red-tailed Black-Cockatoo, Karrak [67034]	Endangered	Species or species habitat known to occur within area
<a href="#">Calyptorhynchus baudinii</a>	Endangered	Species or species habitat may occur within area
Baudin's Cockatoo, Long-billed Black-Cockatoo [769]	Endangered	Species or species habitat may occur within area
<a href="#">Calyptorhynchus latirostris</a>	Endangered	Species or species habitat known to occur within area
Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area
<a href="#">Diomedea amsterdamensis</a>	Endangered	Species or species habitat may occur within area
Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<a href="#">Diomedea dabbenena</a>	Endangered	Species or species habitat may occur within area
Tristan Albatross [66471]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea epomophora</a>	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#">Diomedea exulans</a>	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Name	Status	Type of Presence related behaviour likely to occur within area
<a href="#"><u>Diomedea sanfordi</u></a> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Halobaena caerulea</u></a> Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Limosa lapponica baueri</u></a> Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Limosa lapponica menzbieri</u></a> Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
<a href="#"><u>Macronectes giganteus</u></a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Macronectes halli</u></a> Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Numenius madagascariensis</u></a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Pachyptila turtur subantarctica</u></a> Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Phoebetria fusca</u></a> Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Pterodroma mollis</u></a> Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Sternula nereis nereis</u></a> Australian Fairy Tern [82950]	Vulnerable	Breeding likely to occur within area
<a href="#"><u>Thalassarche carteri</u></a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
<a href="#"><u>Thalassarche cauta cauta</u></a> Shy Albatross, Tasmanian Shy Albatross [82345]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Thalassarche cauta steadi</u></a> White-capped Albatross [82344]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Thalassarche impavida</u></a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Thalassarche melanophris</u></a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Fish		
<a href="#"><u>Nannatherina balstoni</u></a> Balston's Pygmy Perch [66698]	Vulnerable	Species or species habitat may occur within area
Mammals		
<a href="#"><u>Balaenoptera musculus</u></a> Blue Whale [36]	Endangered	Species or species

Name	Status	Type of Presence
<a href="#"><u>Dasyurus geoffroii</u></a> Chuditch, Western Quoll [330]	Vulnerable	habitat likely to occur within area
<a href="#"><u>Eubalaena australis</u></a> Southern Right Whale [40]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Megaptera novaeangliae</u></a> Humpback Whale [38]	Vulnerable	Breeding known to occur within area
<a href="#"><u>Neophoca cinerea</u></a> Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Congregation or aggregation known to occur within area
<a href="#"><u>Pseudocheirus occidentalis</u></a> Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat may occur within area
<a href="#"><u>Setonix brachyurus</u></a> Quokka [229]	Vulnerable	Breeding known to occur within area
<a href="#"><u>Westralunio carteri</u></a> Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat known to occur within area
<b>Other</b>		
<a href="#"><u>Andersonia gracilis</u></a> Slender Andersonia [14470]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Austrostipa bronwenae</u></a> [87808]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Austrostipa jacobsiana</u></a> [87809]	Critically Endangered	Species or species habitat known to occur within area
<a href="#"><u>Banksia nivea subsp. uliginosa</u></a> Swamp Honeypot [82766]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Banksia squarrosa subsp. argillacea</u></a> Whicher Range Dryandra [82769]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Brachysciás verecundus</u></a> Ironstone Brachysciás [81321]	Critically Endangered	Species or species habitat may occur within area
<a href="#"><u>Caladenia huegelii</u></a> King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Chamelaucium sp. S coastal plain (R.D.Royce 4872)</u></a> Royce's Waxflower [87814]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Diuris drummondii</u></a> Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Diuris micrantha</u></a> Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u>Diuris purdiei</u></a> Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat may occur within

Name	Status	Type of Presence area
<a href="#"><u><i>Drakaea elastica</i></u></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="#"><u><i>Drakaea micrantha</i></u></a> Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u><i>Eleocharis keigheryi</i></u></a> Keighery's Eleocharis [64893]	Vulnerable	Species or species habitat likely to occur within area
<a href="#"><u><i>Gastrolobium papilio</i></u></a> Butterfly-leaved Gastrolobium [78415]	Endangered	Species or species habitat may occur within area
<a href="#"><u><i>Lambertia echinata subsp. occidentalis</i></u></a> Western Prickly Honeysuckle [64528]	Endangered	Species or species habitat may occur within area
<a href="#"><u><i>Petrophile latericola</i></u></a> Laterite Petrophile [64532]	Endangered	Species or species habitat may occur within area
<a href="#"><u><i>Synaphea sp. Fairbridge Farm (D. Papenfus 696)</i></u></a> Selena's Synaphea [82881]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#"><u><i>Synaphea sp. Serpentine (G.R. Brand 103)</i></u></a> [86879]	Critically Endangered	Species or species habitat may occur within area
<a href="#"><u><i>Synaphea stenoloba</i></u></a> Dwellingup Synaphea [66311]	Endangered	Species or species habitat may occur within area
<a href="#"><u><i>Verticordia densiflora var. pedunculata</i></u></a> Long-stalked Featherflower [55689]	Endangered	Species or species habitat may occur within area
<b>Reptiles</b>		
<a href="#"><u><i>Caretta caretta</i></u></a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u><i>Chelonia mydas</i></u></a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u><i>Dermochelys coriacea</i></u></a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
<a href="#"><u><i>Natator depressus</i></u></a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<b>Sharks</b>		
<a href="#"><u><i>Carcharias taurus (west coast population)</i></u></a> Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u><i>Carcharodon carcharias</i></u></a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u><i>Rhincodon typus</i></u></a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area

## Listed Migratory Species

[ [Resource Information](#) ]

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

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
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514.	17841 <i>Hypolaena pubescens</i>
515.	1077 <i>Leptocarpus canus</i> ( <i>Hoary Twine-rush</i> )
516.	1078 <i>Leptocarpus coangustatus</i>
517.	19833 <i>Leptocarpus laxus</i>
518.	1082 <i>Leptocarpus tenax</i> ( <i>Slender Twine Rush</i> )
519.	46379 <i>Leptocarpus thysananthus</i>

#### Rhamnaceae

520.	13484 <i>Cryptandra arbutiflora</i> var. <i>tubulosa</i>
521.	4828 <i>Spyridium globulosum</i> ( <i>Basket Bush</i> )

#### Rubiaceae

522.	7321 <i>Galium divaricatum</i>	Y
523.	7323 <i>Galium murale</i> ( <i>Small Goosegrass</i> )	Y
524.	25797 <i>Galium spurium</i>	Y
525.	18254 <i>Opercularia apiciflora</i>	
526.	7348 <i>Opercularia hispidula</i> ( <i>Hispid Stinkweed</i> )	
527.	18255 <i>Opercularia vaginata</i> ( <i>Dog Weed</i> )	
528.	7362 <i>Sherardia arvensis</i> ( <i>Field Madder</i> )	Y

#### Rutaceae

529.	4417 <i>Boronia dichotoma</i>	
530.	4441 <i>Boronia spathulata</i> ( <i>Boronia</i> )	
531.	17804 <i>Boronia tetragona</i>	P3
532.	4454 <i>Diploalaena dampieri</i> ( <i>Southern Diploalaena</i> )	
533.	18529 <i>Philotheca spicata</i> ( <i>Pepper and Salt</i> )	

#### Santalaceae

534.	10907 <i>Exocarpos odoratus</i> ( <i>Scented Ballart</i> )	
535.	10765 <i>Exocarpos sparteus</i> ( <i>Broom Ballart, Djuk</i> )	
536.	2342 <i>Leptomeria cunninghamii</i>	
537.	17702 <i>Leptomeria furtiva</i>	P2
538.	2353 <i>Leptomeria scrobiculata</i>	

#### Scrophulariaceae

539.	7054 <i>Dischisma arenarium</i>	Y
540.	17175 <i>Eremophila glabra</i> subsp. <i>albicans</i>	

#### Selaginellaceae

541.	6 <i>Selaginella gracillima</i> ( <i>Tiny Clubmoss</i> )
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#### Solanaceae

542.	6949 <i>Anthocercis littorea</i> ( <i>Yellow Tailflower</i> )	
543.	7022 <i>Solanum nigrum</i> ( <i>Black Berry Nightshade</i> )	Y

#### Stylidiaceae

544.	7677 <i>Levenhookia stipitata</i> ( <i>Common Stylewort</i> )	
545.	30278 <i>Stylium androsaceum</i>	
546.	25831 <i>Stylium araeophyllum</i> ( <i>Stilt Walker</i> )	
547.	7693 <i>Stylium brunonianum</i> ( <i>Pink Fountain Triggerplant</i> )	
548.	7713 <i>Stylium dichotomum</i> ( <i>Pins-and-needles</i> )	
549.	25801 <i>Stylium hesperium</i>	
550.	7745 <i>Stylium junceum</i> ( <i>Reed Triggerplant</i> )	
551.	7756 <i>Stylium longitubum</i> ( <i>Jumping Jacks</i> )	P4
552.	19248 <i>Stylium megacarpum</i>	
553.	7774 <i>Stylium piliferum</i> ( <i>Common Butterfly Triggerplant</i> )	
554.	7785 <i>Stylium repens</i> ( <i>Matted Triggerplant</i> )	
555.	7798 <i>Stylium schoenoides</i> ( <i>Cow Kicks</i> )	
556.	<i>Stylium</i> sp.	
557.	7806 <i>Stylium utricularioides</i> ( <i>Pink Fan Triggerplant</i> )	
558.	7808 <i>Stylium violaceum</i> ( <i>Violet Triggerplant</i> )	

#### Thymelaeaceae

559.	11402 <i>Pimelea imbricata</i> var. <i>piligera</i>
560.	5252 <i>Pimelea lanata</i>

#### Urticaceae

561.	1762 <i>Parietaria debilis</i> ( <i>Pellitory</i> )
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#### Violaceae

562.	5221 <i>Hybanthus floribundus</i>
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#### Xanthorrhoeaceae

563.	1280 <i>Chamaescilla corymbosa</i> ( <i>Blue Squill</i> )	
564.	19338 <i>Chamaescilla gibsonii</i>	P3
565.	1251 <i>Xanthorrhoea brunonis</i>	

Name ID	Species Name	Naturalised	Conservation Code	<sup>1</sup> Endemic To Query Area
566.	1256 <i>Xanthorrhoea preissii</i> (Grass tree, Palga)			
<b>Zamiaceae</b>				
567.	85 <i>Macrozamia riedlei</i> (Zamia, Djiridji)			
<b>Zygophyllaceae</b>				
568.	4390 <i>Zygophyllum fruticosum</i> (Shrubby Twinleaf)			

**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.

Name	Threatened	Type of Presence
Migratory Marine Birds		
<a href="#"><i>Apus pacificus</i></a>		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#"><i>Ardenna carneipes</i></a>		
Flesh-footed Shearwater, Fleshly-footed Shearwater [82404]		Species or species habitat likely to occur within area
<a href="#"><i>Diomedea amsterdamensis</i></a>		
Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<a href="#"><i>Diomedea dabbenena</i></a>		
Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area
<a href="#"><i>Diomedea epomophora</i></a>		
Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><i>Diomedea exulans</i></a>		
Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><i>Diomedea sanfordi</i></a>		
Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><i>Hydroprogne caspia</i></a>		
Caspian Tern [808]		Foraging, feeding or related behaviour known to occur within area
<a href="#"><i>Macronectes giganteus</i></a>		
Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#"><i>Macronectes halli</i></a>		
Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#"><i>Onychoprion anaethetus</i></a>		
Bridled Tern [82845]		Foraging, feeding or related behaviour likely to occur within area
<a href="#"><i>Phoebetria fusca</i></a>		
Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area
<a href="#"><i>Thalassarche carteri</i></a>		
Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
<a href="#"><i>Thalassarche cauta</i></a>		
Tasmanian Shy Albatross [89224]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><i>Thalassarche impavida</i></a>		
Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#"><i>Thalassarche melanophris</i></a>		
Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
<a href="#"><i>Thalassarche steadi</i></a>		
White-capped Albatross [64462]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		
<a href="#"><i>Balaena glacialis australis</i></a>		
Southern Right Whale [75529]	Endangered*	Breeding known to occur within area

Name	Threatened	Type of Presence
<a href="#"><u>Balaenoptera edeni</u></a> Bryde's Whale [35]		Species or species habitat may occur within area
<a href="#"><u>Balaenoptera musculus</u></a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Caperea marginata</u></a> Pygmy Right Whale [39]		Species or species habitat may occur within area
<a href="#"><u>Carcharodon carcharias</u></a> White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
<a href="#"><u>Caretta caretta</u></a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Chelonia mydas</u></a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Dermochelys coriacea</u></a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
<a href="#"><u>Lagenorhynchus obscurus</u></a> Dusky Dolphin [43]		Species or species habitat may occur within area
<a href="#"><u>Manta alfredi</u></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="#"><u>Manta birostris</u></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="#"><u>Megaptera novaeangliae</u></a> Humpback Whale [38]	Vulnerable	Congregation or aggregation known to occur within area
<a href="#"><u>Natator depressus</u></a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Orcinus orca</u></a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#"><u>Rhincodon typus</u></a> Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#"><u>Motacilla cinerea</u></a> Grey Wagtail [642]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#"><u>Actitis hypoleucus</u></a> Common Sandpiper [59309]		Species or species habitat known to occur within area
<a href="#"><u>Calidris acuminata</u></a> Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
<a href="#"><u>Calidris canutus</u></a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
<a href="#"><u>Calidris ferruginea</u></a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Calidris melanotos</u></a> Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#"><u>Limosa lapponica</u></a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#"><u>Numenius madagascariensis</u></a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Pandion haliaetus</u></a> Osprey [952]		Species or species habitat likely to occur within area
<a href="#"><u>Tringa nebularia</u></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.		
<a href="#"><u>Name</u></a>		
Commonwealth Land - Defence - BUNBURY TRAINING DEPOT		
Listed Marine Species	[ Resource Information ]	
* Species is listed under a different scientific name on the EPBC Act - Threatened Species list.		
Name	Threatened	Type of Presence
Birds		
<a href="#"><u>Actitis hypoleucos</u></a> Common Sandpiper [59309]		Species or species habitat known to occur within area
<a href="#"><u>Anous tenuirostris melanops</u></a> Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Apus pacificus</u></a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<a href="#"><u>Ardea alba</u></a> Great Egret, White Egret [59541]		Breeding known to occur within area
<a href="#"><u>Ardea ibis</u></a> Cattle Egret [59542]		Species or species habitat may occur within area
<a href="#"><u>Calidris acuminata</u></a> Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
<a href="#"><u>Calidris canutus</u></a> Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area
<a href="#"><u>Calidris ferruginea</u></a> Curlew Sandpiper [856]	Critically Endangered	Species or species

Name	Threatened	Type of Presence
<a href="#"><u>Calidris melanotos</u></a> Pectoral Sandpiper [858]		habitat likely to occur within area
<a href="#"><u>Catharacta skua</u></a> Great Skua [59472]		Species or species habitat may occur within area
<a href="#"><u>Diomedea amsterdamensis</u></a> Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Diomedea dabbenena</u></a> Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Diomedea epomophora</u></a> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea exulans</u></a> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Diomedea sanfordi</u></a> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Haliaeetus leucogaster</u></a> White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
<a href="#"><u>Halobaena caerulea</u></a> Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Limosa lapponica</u></a> Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<a href="#"><u>Macronectes giganteus</u></a> Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
<a href="#"><u>Macronectes halli</u></a> Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Merops ornatus</u></a> Rainbow Bee-eater [670]		Species or species habitat may occur within area
<a href="#"><u>Motacilla cinerea</u></a> Grey Wagtail [642]		Species or species habitat may occur within area
<a href="#"><u>Numenius madagascariensis</u></a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area
<a href="#"><u>Pachyptila turtur</u></a> Fairy Prion [1066]		Species or species habitat likely to occur within area
<a href="#"><u>Pandion haliaetus</u></a> Osprey [952]		Species or species habitat likely to occur within area
<a href="#"><u>Phoebetria fusca</u></a> Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within

Name	Threatened	Type of Presence area
<a href="#"><u>Pterodroma mollis</u></a> Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Puffinus assimilis</u></a> Little Shearwater [59363]		Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Puffinus carneipes</u></a> Flesh-footed Shearwater, Fleshly-footed Shearwater [1043]		Species or species habitat likely to occur within area
<a href="#"><u>Sterna anaethetus</u></a> Bridled Tern [814]		Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Sterna caspia</u></a> Caspian Tern [59467]		Foraging, feeding or related behaviour known to occur within area
<a href="#"><u>Thalassarche carteri</u></a> Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
<a href="#"><u>Thalassarche cauta</u></a> Tasmanian Shy Albatross [89224]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Thalassarche impavida</u></a> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Thalassarche melanophris</u></a> Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
<a href="#"><u>Thalassarche steadi</u></a> White-capped Albatross [64462]	Vulnerable*	Foraging, feeding or related behaviour likely to occur within area
<a href="#"><u>Thinornis rubricollis</u></a> Hooded Plover [59510]		Species or species habitat may occur within area
<a href="#"><u>Tringa nebularia</u></a> Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
<b>Fish</b>		
<a href="#"><u>Acentronura australis</u></a> Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area
<a href="#"><u>Campichthys galei</u></a> Gale's Pipefish [66191]		Species or species habitat may occur within area
<a href="#"><u>Heraldia nocturna</u></a> Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within area
<a href="#"><u>Hippocampus angustus</u></a> Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
<a href="#"><u>Hippocampus breviceps</u></a> Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area
<a href="#"><u>Hippocampus subelongatus</u></a> West Australian Seahorse [66722]		Species or species habitat may occur within

Name	Threatened	Type of Presence area
<a href="#"><u>Histiogamphelus cristatus</u></a> Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]		Species or species habitat may occur within area
<a href="#"><u>Lissocampus caudalis</u></a> Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area
<a href="#"><u>Lissocampus fatiloquus</u></a> Prophet's Pipefish [66250]		Species or species habitat may occur within area
<a href="#"><u>Lissocampus runa</u></a> Javelin Pipefish [66251]		Species or species habitat may occur within area
<a href="#"><u>Maroubrä perserrata</u></a> Sawtooth Pipefish [66252]		Species or species habitat may occur within area
<a href="#"><u>Mitotichthys meraculus</u></a> Western Crested Pipefish [66259]		Species or species habitat may occur within area
<a href="#"><u>Nannocampus subosseus</u></a> Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat may occur within area
<a href="#"><u>Phycodurus eques</u></a> Leafy Seadragon [66267]		Species or species habitat may occur within area
<a href="#"><u>Phyllopteryx taeniolatus</u></a> Common Seadragon, Weedy Seadragon [66268]		Species or species habitat may occur within area
<a href="#"><u>Pugnaso curtirostris</u></a> Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area
<a href="#"><u>Solegnathus lettiiensis</u></a> Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
<a href="#"><u>Stigmatopora argus</u></a> Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area
<a href="#"><u>Stigmatopora nigra</u></a> Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area
<a href="#"><u>Urocampus carinirostris</u></a> Hairy Pipefish [66282]		Species or species habitat may occur within area
<a href="#"><u>Vanacampus margaritifer</u></a> Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area
<a href="#"><u>Vanacampus phillipi</u></a> Port Phillip Pipefish [66284]		Species or species habitat may occur within area
<a href="#"><u>Vanacampus poecilolaemus</u></a> Longsnout Pipefish, Australian Long-snout Pipefish, Long-snouted Pipefish [66285]		Species or species habitat may occur within area
<b>Mammals</b>		
<a href="#"><u>Arctocephalus forsteri</u></a> Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within

Name	Threatened	Type of Presence area
<a href="#"><u><i>Neophoca cinerea</i></u></a> Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat may occur within area
<b>Reptiles</b>		
<a href="#"><u><i>Caretta caretta</i></u></a> Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u><i>Chelonia mydas</i></u></a> Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<a href="#"><u><i>Dermochelys coriacea</i></u></a> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
<a href="#"><u><i>Natator depressus</i></u></a> Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
<b>Whales and other Cetaceans</b>		[ Resource Information ]
Name	Status	Type of Presence
<b>Mammals</b>		
<a href="#"><u><i>Balaenoptera acutorostrata</i></u></a> Minke Whale [33]		Species or species habitat may occur within area
<a href="#"><u><i>Balaenoptera edeni</i></u></a> Bryde's Whale [35]		Species or species habitat may occur within area
<a href="#"><u><i>Balaenoptera musculus</i></u></a> Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
<a href="#"><u><i>Caperea marginata</i></u></a> Pygmy Right Whale [39]		Species or species habitat may occur within area
<a href="#"><u><i>Delphinus delphis</i></u></a> Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
<a href="#"><u><i>Eubalaena australis</i></u></a> Southern Right Whale [40]	Endangered	Breeding known to occur within area
<a href="#"><u><i>Grampus griseus</i></u></a> Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
<a href="#"><u><i>Lagenorhynchus obscurus</i></u></a> Dusky Dolphin [43]		Species or species habitat may occur within area
<a href="#"><u><i>Megaptera novaeangliae</i></u></a> Humpback Whale [38]	Vulnerable	Congregation or aggregation known to occur within area
<a href="#"><u><i>Orcinus orca</i></u></a> Killer Whale, Orca [46]		Species or species habitat may occur within area
<a href="#"><u><i>Stenella attenuata</i></u></a> Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<a href="#"><u><i>Tursiops aduncus</i></u></a> Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
<a href="#">Tursiops truncatus s. str.</a> Bottlenose Dolphin [68417]		Species or species habitat may occur within area

## Extra Information

State and Territory Reserves		[ Resource Information ]
Name	Status	
Tuart Forest	WA	
Unnamed WA40552	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
Birds		
Anas platyrhynchos Mallard [974]		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 within area
Mammals		
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

Name	Status	Type of Presence
<i>Felis catus</i> Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
<i>Feral deer</i> Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
<i>Mus musculus</i> House Mouse [120]		Species or species habitat likely to occur within area
<i>Oryctolagus cuniculus</i> Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
<i>Rattus rattus</i> Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
<i>Sus scrofa</i> Pig [6]		Species or species habitat likely to occur within area
<i>Vulpes vulpes</i> Red Fox, Fox [18]		Species or species habitat likely to occur within area
<b>Plants</b>		
<i>Anredera cordifolia</i> 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
<i>Asparagus asparagoides</i> Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
<i>Asparagus declinatus</i> Bridal Veil, Bridal Veil Creeper, Pale Berry Asparagus Fern, Asparagus Fern, South African Creeper [66908]		Species or species habitat likely to occur within area
<i>Asparagus plumosus</i> Climbing Asparagus-fern [48993]		Species or species habitat likely to occur within area
<i>Brachiaria mutica</i> Para Grass [5879]		Species or species habitat may occur within area
<i>Cenchrus ciliaris</i> Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
<i>Chrysanthemoides monilifera</i> Bitou Bush, Boneseed [18983]		Species or species habitat may occur within area
<i>Genista linifolia</i> Flax-leaved Broom, Mediterranean Broom, Flax Broom [2800]		Species or species habitat likely to occur within area
<i>Genista sp. X Genista monspessulana</i> Broom [67538]		Species or species habitat may occur within area
<i>Lycium ferocissimum</i> African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
<i>Olea europaea</i> Olive, Common Olive [9160]		Species or species habitat may occur within area

Name	Status	Type of Presence
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
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
Solanum elaeagnifolium Silver Nightshade, Silver-leaved Nightshade, White Horse Nettle, Silver-leaf Nightshade, Tomato Weed, White Nightshade, Bull-nettle, Prairie-berry, Satansbos, Silver-leaf Bitter-apple, Silverleaf-nettle, Trompillo [12323]		Species or species habitat likely to occur within area

## 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

-33.386225 115.684895,-33.394538 115.663952,-33.402277 115.658802,-33.410301 115.659146,-33.419758 115.649189,-33.427782 115.63786,-33.434945 115.61726,-33.456144 115.603184

# 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 D

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# Quadrat and Photo Point Data

## Quadrat Species List

Row Labels	Status	GB 01	GB 02	GB 03	GB 04	GB 05	GB 06	GB 07	GB 08	GB 09	GB 10	GB 11	GB 12	GB 13	GB 14	GB 15	GB 16	GB 17	GB 18	GB 19	GB 20
<i>Acacia appplanata</i>									1					1	1						
<i>Acacia extensa</i>			1																		
<i>Acacia huegelii</i>									1												
<i>Acacia longifolia</i>	*		1																		
<i>Acacia pulchella</i> var. <i>pulchella</i>			1												1						
<i>Acacia pulchella</i> var. <i>glaberrima</i>																		1	1	1	
<i>Agonis flexuosa</i>				1		2	1				1	1	1			1					1
<i>Agrostocrinum scabrum</i>			1		1																
<i>Alyxia buxifolia</i>															1						
<i>Anthoxanthum odoratum</i>	*									1											
<i>Astartea scoparia</i>											1										
<i>Asteridea pulverulenta</i>				1	1																
<i>Astroloma pallidum</i>						1															
<i>Austrostipa campylachne</i>		1													1		1	1	1		
<i>Austrostipa flavescens</i>																				1	
<i>Austrostipa semibarbata</i>																					1
<i>Avena barbata</i>	*	1						1										1	1		
<i>Avena fatua</i>	*			1			1														
<i>Banksia attenuata</i>		1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1
<i>Banksia grandis</i>		1					1		1								1				1
<i>Banksia ilicifolia</i>									1												1
<i>Baumea juncea</i>											1										
<i>Billardiera variifolia</i>																1					
<i>Bossiaea eriocarpa</i>		1			1	1			1										1		1
<i>Briza maxima</i>	*	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	1
<i>Briza minor</i>	*														1						

<i>Bromus diandrus</i>	*																			
<i>Burchardia congesta</i>		1	1		1	1		1							1		1	1	1	
<i>Caladenia flava</i> subsp. <i>flava</i>		1	1			1									1				1	
<i>Callitriches stagnalis</i>	*																			
<i>Carex divisa</i>	*								1											
<i>Cassytha</i> sp.																				
<i>Chamaescilla corymbosa</i>		1				1				1										
<i>Conostylis aculeata</i>																			1	
<i>Conostylis aculeata</i> subsp. <i>preissii</i>		1	1		1	1					1	1	1	1	1	1	1	1	1	1
<i>Conostylis juncea</i>							1													
<i>Conyzia bonariensis</i>	*			1																
<i>Corymbia calophylla</i>			1					1			1		1	1	1	1	1	1	1	1
<i>Cotula coronopifolia</i>	*			1					1											
<i>Cotula turbinata</i>	*			1			1		1											
<i>Crassula colorata</i> var. <i>colorata</i>																	1			
<i>Crassula natans</i> var. <i>minus</i>	*			1													1			
<i>Cryptostylis ovata</i> (leaf only)			1																	
<i>Cyathochaeta avenacea</i>										1										
<i>Cynogeton lineare</i>																				
<i>Cynodon dactylon</i>	*								1											
<i>Cyperus tenellus</i>	*									1										
<i>Dasypogon bromeliifolius</i>			1					1							1					
<i>Daucus glochidiatus</i>															1			1		
<i>Daviesia physodes</i>			1																	
<i>Desmocladus fascicularis</i>		1	1		1	1		1			1		1	1	1	1	1	1	1	1
<i>Desmocladus flexuosa</i>											1							1		
<i>Dianella revoluta</i>							1				1		1			1	1	1		
<i>Dichopogon capillipes</i>		2			1	1	1				1		1		1	1	1	1	2	1

<i>Disa bracteata</i>	*									1					1		1		
<i>Drosera erythrorhiza</i>			1																
<i>Drosera glanduligera</i>											1								
<i>Drosera</i> sp. climbing (nf)									1						1				
<i>Drosera stolonifera</i>						1						1				1		1	
<i>Ehrhartia calycina</i>	*				1	1	1	1				1	1	1	1	1	1	1	1
<i>Ehrhartia longiflora</i>	*	1		1	1			1											
<i>Eriochilus dilatatus</i> (leaf only)																		1	
<i>Eryngium pinnatifidum</i>							1												
<i>Eucalyptus marginata</i> subsp. <i>marginata</i>		1	1		1								1					1	
<i>Eucalyptus rufa</i>				1															
<i>Euphorbia peplus</i>	*							1											
<i>Ficinia nodosa</i>					1														
<i>Geranium molle</i>	*			1															
<i>Gladiolus caryophyllaceus</i>														1			1		
<i>Gompholobium polymorphum</i>			1																
<i>Gompholobium tomentosum</i>		1	1		1	1											1		1
<i>Hardenbergia comptoniana</i>		1	1		1	1	1					1	1	1	1				1
<i>Hibbertia cuneiformis</i>							1						1	1		1	1		
<i>Hibbertia hypericoides</i>																		1	
<i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>			1	1		1	1	1		1			1	1	1	1	1	1	1
<i>Hibbertia racemosa</i>								1								1			1
<i>Hibbertia vaginata</i>									1										
<i>Holcus lanatus</i>	*									1									
<i>Hordeum leporinum</i>	*		1																
<i>Hovea trisperma</i>					1				1										
<i>Hyalosperma cotula</i>						1	1												
<i>Hybanthus calycinus</i>					1	1	1												

<i>Hypocalymma robustum</i>			1																					1
<i>Hypochaeris glabra</i>	*		1	1	1	1		1		1	1	1	1		1	1		1	1		1	1		1
<i>Hypochaeris radicata</i>	*	1		1																				
<i>Hypolaena exsulca</i>		1	1						1															1
<i>Isolepis cernua</i> var. <i>setiformis</i>										1														
<i>Ixia</i> sp.	*																1	1	1	1	1			
<i>Jacksonia furcellata</i>																1					1			1
<i>Jacksonia horrida</i>									1															
<i>Juncus pallidus</i>										1														
<i>Kennedia prostrata</i>					1					1						1		1	1	1				1
<i>Kunzea glabrescens</i>										1		2									1			
<i>Lagenophora huegelii</i>		1	1		1	1	1						1											1
<i>Lemna disperma</i>																								
<i>Lepidosperma longitudinale</i>				1																				
<i>Lepidosperma pubisquamatum</i>		1	1		1	1	1		1				1				1	1	1	1	1			1
<i>Lepidosperma</i> sp. (nf)																								1
<i>Leptocarpus kraussii</i>																								
<i>Leucopogon propinquus</i>		1			1	1	1							1	1	1	1	1	1	1				1
<i>Levenhookia pusilla</i>		1			1	1	1																	1
<i>Lobelia heterophylla</i>							1																	
<i>Lolium rigidum</i>	*							1		1														
<i>Lomandra ?odora</i>																								1
<i>Lomandra caespitosa</i>						1	1																	1
<i>Lomandra hermaphrodita</i>		1															1		2					
<i>Lomandra odora</i>								1									1			1				
<i>Lomandra purpurea</i>		1	1															1						
<i>Lomandra sericea</i>																								1
<i>Lomandra</i> sp.			1		1									1	1						1			
<i>Lotus subbiflorus</i>	*			1		1								1	1						1			

<i>Lyginia barbata</i>							1												
<i>Lyperanthus serratus</i>															1				1
<i>Lysimachia arvensis</i>	*				1	1				1	1								
<i>Macrozamia riedlei</i>		1		1		1	1	1		1		1	1	1		1	1	1	
<i>Melaleuca preissiana</i>			1						1										
<i>Melaleuca rhaphiophylla</i>									1										
<i>Melaleuca thymoides</i>								1											
<i>Mentha pulegium</i>	*			1															
<i>Microtis media</i> subsp. <i>media</i>			1						1			1	1		1		1		
<i>Microtis</i> sp. nf tall (45 cm)										1									
<i>Moraea flaccida</i>														1					
<i>Nuytsia floribunda</i>																		1	
<i>Opercularia apiciflora</i>		1																1	
<i>Opercularia hispidula</i>			1								1								
<i>Opercularia vaginata</i>							1												
<i>Ornithopus compressus</i>									1								1		
<i>Orthrosanthus laxus</i> var. <i>laxus</i>													1	1	1	1	1	1	
<i>Oxalis pes-caprae</i>	*							1				1	1	1	1	1	1		
<i>Patersonia occidentalis</i>			1		1					1			1		1		1	1	
<i>Persoonia longifolia</i>														1					
<i>Petrophile linearis</i>			1							1			1						1
<i>Petrorhagia dubia</i>	*					1	1	1					1						
<i>Philotheca spicata</i>			1												1				
<i>Phlebocarya ciliata</i>		1	1		1		1		1			1		1			1	1	1
<i>Phyllanthus calycinus</i>		1			1		1												1
<i>Phytolacca octandra</i>	*									1									
<i>Pimelea rosea</i> subsp. <i>rosea</i>							1												
<i>Podolepis gracilis</i>																			1
<i>Poranthera microcephala</i>													1						

<i>Ptilotus sericostachyus</i>						1															
<i>Pyrorchis nigricans</i>		1	1			1			1									1			
<i>Ranunculus muricatus</i>	*			1																	
<i>Rhodanthe citrina</i>							1														
<i>Romulea rosea</i>	*		1		1	1				1	1	1						1			
<i>Romulea rosea</i> var. <i>communis</i>	*																				1
<i>Rumex acetosella</i>	*			2				1													
<i>Rumex conglomeratus</i>	*			1																	
<i>Rumex crispus</i>	*			1																	
<i>Rytidosperma occidentale</i>																					1
<i>Scaevola calliptera</i>		1	1																		
<i>Schoenus grandiflorus</i>																		1	1		
<i>Sonchus oleraceus</i>	*			1																	
<i>Sonchus</i> sp.	*			1																	
<i>Sowerbaea laxiflora</i>		1			1							1		1	1	1	1	1			
<i>Spergula arvensis</i>	*			1																	
<i>Sporobolus africanus</i>	*								1												
<i>Spyridium globulosum</i>															1			1	1	1	
<i>Stirlingia latifolia</i>									1												
<i>Stylium brunonianum</i>									1												1
<i>Stylium calcaratum</i>						1															
<i>Stylium ciliatum</i>									1												
<i>Stylium schoenoides</i>		1			1	1															
<i>Stypandra glauca</i>												1									
<i>Thelymitra benthamiana</i>		2	1		1	1			1			1		1	1	1	1	1	1		
<i>Thelymitra graminea</i>												1									1
<i>Thelymitra macrophylla</i>			2			1			1							1		1	1		
<i>Thysanotus</i> ? <i>manglesianus</i>		1			1				1							1		1	1	1	
<i>Thysanotus multiflorus</i>		1																			

<i>Trachyandra divaricata</i>																					
<i>Trachymene pilosa</i>		1	1		1	1	1		1		1	1	1	1					1		
<i>Tricoryne elatior</i>							1						1								
<i>Trifolium arvense</i> var. <i>arvense</i>	*									1											
<i>Trifolium campestre</i>	*											1	1				1	1	1		
<i>Trifolium repens</i>	*			1						1								1			
<i>Trifolium</i> sp.	*					1		1													
<i>Ursinia anthemoides</i>	*	1	1		1	1	1			1				1		1	1	1			
<i>Xanthorrhoea brunonis</i>					1				1			1				1	1	1	1	1	1
<i>Xanthorrhoea gracilis</i>		1				1	1														
<i>Xanthosia huegelii</i>		1				1			1												1
<i>Xylomelum occidentale</i>		1	1											1							1
<i>Zantedeschia aethiopica</i>	*									1						1	1				
<b>Grand Total</b>		<b>46</b>	<b>40</b>	<b>25</b>	<b>39</b>	<b>36</b>	<b>35</b>	<b>16</b>	<b>35</b>	<b>20</b>	<b>16</b>	<b>32</b>	<b>18</b>	<b>26</b>	<b>42</b>	<b>27</b>	<b>33</b>	<b>32</b>	<b>39</b>	<b>21</b>	<b>29</b>

**BUNBURY OUTER RING ROAD – SOUTH: QUADRAT and PHOTOGRAPHIC REFERENCE  
POINTS / NOTES**

## 1 QUADRAT DATA – BORR SOUTH 2018

Site	GBREL01						
Type: Quadrat	Size: 10 x 10		Date: 31/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting: 35185.2335		Northing: 104021.4791				
<b>Location:</b> Lot 5 on Plan 43322							
<b>Vegetation Type:</b> VT7							
Landform: Swamp	Slope: Gentle	Drainage: Permanent Wet					
<b>Soil Colour &amp; Type:</b> Black silt							
<b>Vegetation Condition:</b> Very Good (3)							
<b>Disturbances:</b> Weeds, grazing, berm effect on hydrology							
<b>Fire Age &amp; Intensity:</b> Old >5yr – no damage							
<b>Bare Ground:</b> 2-10% <b>Humus/Litter:</b> Plentiful – 31-70%							
<b>Wood Litter:</b> Moderate							



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Lemna disperma</i>	0	G2	<2T	0.01
Cyperaceae	<i>Carex divisa</i>	*	G1	<10	0.8
Cyperaceae	<i>Ficinia nodosa</i>	0	G1	<2T	0.3
Juncaceae	<i>Juncus pallidus</i>	0	G1	10-30	1
Lauraceae	<i>Cassytha sp.</i>	0	M1	<2N	0.5
Myrtaceae	<i>Agonis flexuosa</i>	0	U1	<10	8
Myrtaceae	<i>Melaleuca preissiana</i>	0	U1	30-70	6-8
Myrtaceae	<i>Melaleuca rhamphophylla</i>	0	M1	<10	5
Poaceae	<i>Cynodon dactylon</i>	*	G2	<2N	0.1
Poaceae	<i>Holcus lanatus</i>	*	G1	<2N	0.2

Site	GBREL02					
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	36161.3884	Northing:	103489.0308		
<b>Location:</b> Lot 5 on Plan 43322						
<b>Vegetation Type:</b> VT7						
Landform: Swamp	Slope: Negligible	Drainage: Permanent Wet				
<b>Soil Colour &amp; Type:</b> Black silt						
<b>Vegetation Condition:</b> Very Good (3)						
<b>Disturbances:</b> Weeds, grazing						
<b>Fire Age &amp; Intensity:</b> Old >5yr – no damage						
<b>Bare Ground:</b> <2% <b>Humus/Litter:</b> Negligible – 2-10%						
<b>Wood Litter:</b> Sparse						



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Lemna disperma</i>	0	G2	10-30	0.01
Asteraceae	<i>Cotula coronopifolia</i>	*	G1	10-30	0.05
Cyperaceae	<i>Carex divisa</i>	*	G1	<10	0.1
Cyperaceae	<i>Carex divisa</i>	*	G1	<10	0.4
Cyperaceae	<i>Isolepis cernua</i> var. <i>setiformis</i>	0	G2	<2N	0.1
Iridaceae	<i>Moraea flaccida</i>	*	G1	<2T	0.1
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.1
Juncaginaceae	<i>Cycnogeton lineare</i>	0	G1	<2N	0.1
Myrtaceae	<i>Melaleuca preissiana</i>	0	U1	30-70	4-5
Orchidaceae	<i>Microtis media</i> subsp <i>media</i>	0	G1	<2N	0.4
Phytolaccaceae	<i>Phytolacca octandra</i>	*	G1	<2N	0.1
Plantaginaceae	<i>Callitriches stagnalis</i>	*	G2	<2N	0.01
Poaceae	<i>Cynodon dactylon</i>	*	G2	<2N	0.2
Restionaceae	<i>Leptocarpus kraussii</i>	0	G1	<2T	0.6

Site	GBREL03			
Type: Quadrat	Size: 10 x 10	Date: 21/08/2018	Described by: AB	
Co-ordinates (PCG94)	Easting:	35341.3938	Northing:	102961.3627
<b>Location:</b> Lot 244 on Plan 232800				
<b>Vegetation Type:</b> VT7				
Landform: Drainage Depression Slope: Steep	Drainage: Seasonal Wet			
<b>Soil Colour &amp; Type:</b> Black clay				
<b>Vegetation Condition:</b> Good (4) to Degraded (6)				
<b>Disturbances:</b> Weeds, cattle				
<b>Fire Age &amp; Intensity:</b> Nil – no damage				
<b>Bare Ground:</b> – <b>Humus/Litter:</b> Moderate				
<b>Wood Litter:</b> Moderate				



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Asteraceae	<i>Cotula coronopifolia</i>	*	G2	30-70	0.1
Asteraceae	<i>Cotula turbinata</i>	*	G2	10-30	0.1
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	2-10	0.1
Asteraceae	<i>Sonchus oleraceus</i>	*	G2	<2	0.1
Cyperaceae	<i>Ficinia nodosa</i>		G1	2-10	0.4
Cyperaceae	<i>Lepidosperma longitudinale</i>		G1	10-30	0.4
Fabaceae	<i>Lotus angustissimus</i>	*	M2	10-30	0.2
Juncaceae	<i>Juncus kraussii</i>		G1	2-10	0.4
Juncaceae	<i>Juncus pallidus</i>		G1	2-10	0.4
Juncaginaceae	<i>Liparophyllum ? latifolium</i>		G2	<2	0.2
Lauraceae	<i>Cassytha sp. (sterile)</i>		Cl	<2	cl
Myrtaceae	<i>Astartea scoparia</i>		M1	<2	1.5
Myrtaceae	<i>Melaleuca preissiana</i>		U1	2-10	5
Myrtaceae	<i>Melaleuca raphiophylla</i>		U1	10-30	8
Myrtaceae	<i>Melaleuca viminea</i>		M1	2-10	1.5
Poaceae	<i>Briza minor</i>	*	G1	<2	0.4
Poaceae	<i>Cenchrus clandestinus</i>	*	G1	30-70	0.2

Site	GBREL04					
Type: Quadrat	Size: 2 x 10	Date: 21/08/2018	Described by: AB			
Co-ordinates (PCG94)	Easting:	35553.459	Northing:	103139.3345		
<b>Location:</b> Lot 244 on Plan 232800						
<b>Vegetation Type:</b> VT3						
Landform: Plain	Slope: Gentle	Drainage: Good				
Soil Colour & Type: Grey sand						
Vegetation Condition: Degraded (6)						
Disturbances: Weeds, cattle						
Fire Age & Intensity: Nil – no damage						
Bare Ground: – Humus/Litter: Moderate						
Wood Litter: Moderate						



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Anarthriaceae	<i>Lyginia barbata</i>		G1	<2N	0.3
Asparagaceae	<i>Lomandra ?caespitosa</i>		G1	<2T	0.2
Asteraceae	<i>Arctotheca calendula</i>	*	G2	10-30	0.1
Asteraceae	<i>Cotula turbinata</i>	*	G2	10-30	0.2
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	10-30	0.1
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	10-30	0.1
Dasypogonaceae	<i>Dasypogon bromeliifolius</i>		G1	10-30	0.5
Ericaceae	<i>Ericaceae sp.</i>		M2	<2T	1.5
Fabaceae	<i>Acacia pulchella</i>		M2	<2T	1.5
Iridaceae	<i>Romulea rosea</i>	*	G2	2-10	0.1
Loranthaceae	<i>Nuytsia floribunda</i>		M1	<2T	5
Myrtaceae	<i>Agonis flexuosa</i>		U1	2-10	6
Myrtaceae	<i>Eucalyptus marginata</i>		U1	<2	6
Myrtaceae	<i>Kunzea glabrescens</i>		M1	<2	4
Poaceae	<i>Briza maxima</i>	*	G1	2-10	0.3
Poaceae	<i>Ehrharta sp.</i>	*	G1	2-10	0.3
Proteaceae	<i>Banksia attenuata</i>		M1	2-10	8
Proteaceae	<i>Banksia ilicifolia</i>		M1	<2	8
Proteaceae	<i>Xylomelum occidentale</i>		M1	<2	6
Restionaceae	<i>Desmocladus flexuosus</i>		G1	10-30	0.2
Restionaceae	<i>Desmocladus fasciculatus</i>		G1	<2	0.2

Site	GBREL05					
Type: Quadrat	Size: 2 x 10	Date: 21/08/2018	Described by: AB			
Co-ordinates (PCG94)	Easting:	35945.8417	Northing:	103535.5991		
<b>Location:</b> Lot 244 on Plan 232800						
<b>Vegetation Type:</b> VT3						
Landform: Plain	Slope: Gentle	Drainage: Good				
Soil Colour & Type: Sandy Clay						
<b>Vegetation Condition:</b> Degraded (6)						
<b>Disturbances:</b> Weeds, cattle						
<b>Fire Age &amp; Intensity:</b> Nil – no damage						
<b>Bare Ground:</b> – <b>Humus/Litter:</b> Moderate						
<b>Wood Litter:</b> Moderate						



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Zantedeschia aethiopica</i>	*DP	M2	<2T	0.4
Myrtaceae	<i>Corymbia calophylla</i>		U1	30-70	5-8
Proteaceae	<i>Banksia attenuata</i>		M1	<2T	1.5
Proteaceae	<i>Banksia ilicifolia</i>		M1	<2T	1.5
Proteaceae	<i>Xylomelum occidentale</i>		M1	2-10	2
Xanthorrhoeaceae	<i>Xanthorrhoea gracilis</i>		M2	2-10	0.4
Poaceae	Pasture grasses	*	G1	70-100	0.2

Site	GBQ01											
Type: Quadrat	Size: 10 x 10	Date: 29/10/2018	Described by: MT									
Co-ordinates (PCG94)	Easting:	31000.86	Northing:	98459.76								
<b>Location:</b> Lakes Road												
<b>Vegetation Type:</b> VT1												
Landform: Plain	Slope: Negligible	Drainage: Good										
<b>Soil Colour &amp; Type:</b> Sand												
<b>Vegetation Condition:</b> Very Good (3)												
<b>Disturbances:</b> Weeds												
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – few trees killed												
<b>Bare Ground:</b> 20% <b>Humus/Litter:</b> Moderate – 31-70%												
<b>Wood Litter:</b> Sparse												
												

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apiaceae	<i>Xanthosia huegelii</i>	0	G2	<2T	0.05
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2T	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2T	0.5
Asparagaceae	<i>Dichopogon capillipes</i>	0	M3	<2N	0.3
Asparagaceae	<i>Lomandra hermaphrodita</i>	0	G1	<2T	0.2
Asparagaceae	<i>Lomandra purpurea</i>		M3	<2T	0.2
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2N	0.4
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G2	<2T	0.2
Asparagaceae	<i>Thysanotus multiflorus</i>	0	G2	<2T	0.1
Asteraceae	<i>Hypochaeris radicata</i>	*	G2	<2T	0.02
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2T	0.03
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2T	0.02
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.4
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<10	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M2	30-70	0.4
Droseraceae	<i>Drosera erythrorhiza</i>	0	G2	<2T	0.02
Ericaceae	<i>Leucopogon propinquus</i>		M3	<2T	0.2
Fabaceae	<i>Bossiaea eriocarpa</i>	0	M3	<2T	0.3
Fabaceae	<i>Gompholobium tomentosum</i>	0	G1	<2T	0.2
Fabaceae	<i>Hardenbergia comptoniana</i>		M3	<2T	0.2
Goodeniaceae	<i>Scaevola calliptera</i>		G2	<2N	0.3
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G1	<2T	0.2
Haemodoraceae	<i>Phlebocarya ciliata</i>	0	G2	<2T	0.1
Myrtaceae	<i>Eucalyptus marginata</i> subsp. <i>marginata</i>	0	M3	<2T	0.4
Orchidaceae	<i>Caladenia flava</i> subsp. <i>flava</i>		G2	<2T	0.05
Orchidaceae	<i>Pyrorchis nigricans</i>	0	G2	<2N	0.01
Orchidaceae	<i>Theelymitra benthamiana</i>	0	G2	<2T	0.1
Orchidaceae	<i>Theelymitra benthamiana</i>	0	G2	<2T	0.3
Phytolaccaceae	<i>Phyllanthus calycinus</i>	0	M3	<2T	0.2
Poaceae	<i>Austrostipa campylachne</i>	0	G1	<2T	0.4
Poaceae	<i>Avena barbata</i>	*	G1	<2N	0.4

Poaceae	<i>Briza maxima</i>	*	G1	10-30	0.1
Poaceae	<i>Ehrharta longiflora</i>	*	G1	<2N	0.4
Poaceae	<i>Hordeum leporinum</i>	*	G1	<2T	0.2
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-70	6
Proteaceae	<i>Banksia grandis</i>	0	U1	<10	2-4
Proteaceae	<i>Xylomelum occidentale</i>	0	M3	<2T	0.2
Restionaceae	<i>Desmocladus fascicularis</i>	0	G1	<2N	0.1
Restionaceae	<i>Hypolaena exsulca</i>	0	G1	<2N	0.4
Rubiaceae	<i>Opercularia apiciflora</i>	0	G1	<2T	0.3
Rutaceae	<i>Philotheeca spicata</i>		M3	<2T	0.2
Styliadiaceae	<i>Levenhookia pusilla</i>	0	G2	<2N	0.05
Styliadiaceae	<i>Styliodium schoenoides</i>	0	G2	<2T	0.05
Xanthorrhoeaceae	<i>Chamaescilla corymbosa</i>	0	G2	<2N	0.05
Xanthorrhoeaceae	<i>Xanthorrhoea gracilis</i>	0	M1	<10	1
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<2T	0.4

Site	GBQ02						
Type: Quadrat	Size: 10 x 10		Date: 30/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	33434.85		Northing:	99831.159		
Location: P Road							
Vegetation Type:							
Landform: Plain Slope: Negligible	Drainage: Good						
Soil Colour & Type: Sand							
Vegetation Condition: Very Good (3)							
Disturbances: Weeds							
Fire Age & Intensity: Old > 5 yr – few trees killed							
Bare Ground: 2-10% Humus/Litter: Moderate – 31-70%							
Wood Litter: Moderate							



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.02
Asparagaceae	<i>Lomandra purpurea</i>		G1	<2T	0.5
Asparagaceae	<i>Lomandra sp.</i>	0	G1	10-30	0.4
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	10-30	0.4
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.02
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2N	0.05
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.05
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.4
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2N	0.4
Dasypogonaceae	<i>Dasypogon bromeliifolius</i>		G1	<2N	0.4
Dilleniaceae	<i>Hibbertia hypericoides subsp hypericoides</i>	0	M2	10-30	0.4
Ericaceae	<i>Petrophile linearis</i>	0	M3	<2T	0.2
Fabaceae	<i>Acacia pulchella var pulchella</i>	0	G2	<2T	0.6
Fabaceae	<i>Acacia extensa</i>	0	M2	<10	0.6
Fabaceae	<i>Acacia longifolia</i>	*	M1	<10	2
Fabaceae	<i>Daviesia physodes</i>	0	M3	<2T	0.4
Fabaceae	<i>Gompholobium polymorphum</i>	0	M3	<2N	0.2
Fabaceae	<i>Gompholobium tomentosum</i>	0	M3	<2T	0.2
Fabaceae	<i>Hardenbergia comptoniana</i>		M2	<2T	0.2
Goodeniaceae	<i>Scaevola calliptera</i>		G1	<2N	0.3
Haemodoraceae	<i>Conostylis aculeata subsp preissii</i>	0	G1	<2N	0.2
Hemerocallidaceae	<i>Agrostocrinum scabrum</i>	0	G1	<2T	0.4
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2N	0.3
Iridaceae	<i>Romulea rosea</i>	*	M3	<2N	0.05
Myrtaceae	<i>Corymbia calophylla</i>		U1/U2	30-70 / 10-30	6-10
Myrtaceae	<i>Eucalyptus marginata subsp. Marginata</i>	0	U2	10-30	6
Myrtaceae	<i>Hypocalymma robustum</i>	0	M3	<2T	0.2
Orchidaceae	<i>Caladenia flava subsp. Flava</i>		G2	<2N	0.1
Orchidaceae	<i>Cryptostylis ovata (leaf only)</i>	0	G2	<2N	0.05
Orchidaceae	<i>Microtis media subsp media</i>	0	G2	<2T	0.1

Orchidaceae	<i>Pyrorchis nigricans</i>	0	G2	<2N	0.02
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G1	<2T	0.3
Orchidaceae	<i>Thelymitra macrophylla</i>	0	G1	<2T	0.3
Orchidaceae	<i>Thelymitra macrophylla</i>	0	G2	<2T	0.3
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.3
Proteaceae	<i>Banksia attenuata</i>	0	M1	<10	2-3
Proteaceae	<i>Xylomelum occidentale</i>	0	M2	<2T	1
Restionaceae	<i>Desmocladus fascicularis</i>	0	G1	<2N	0.1
Restionaceae	<i>Hypolaena exsulca</i>	0	G1	<2N	0.2
Rubiaceae	<i>Opercularia hispidula</i>		G1	<10	0.4

Site	GBQ03			
Type: Quadrat	Size: 10 x 10	Date: 30/10/2018	Described by: MT	
Co-ordinates (PCG94)	Easting:	33481.7793	Northing:	99787.8383
Location: P Road				
Vegetation Type:				
Landform: Drainage Line	Drainage: Seasonal Wet			
Slope: Gentle				
Soil Colour & Type: Grey Silty Sand				
Vegetation Condition: Degraded (6)				
Disturbances: Weeds				
Fire Age & Intensity: Old > 5 yr – minor impact				
Bare Ground: 11-30% Humus/Litter: Sparse – 2-10%				
Wood Litter: Sparse				



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Asteraceae	<i>Conyza bonariensis</i>	*	G1	<2N	0.1
Asteraceae	<i>Cotula coronopifolia</i>	*	G2	<2N	0.05
Asteraceae	<i>Cotula turbinata</i>	*	G1	<2N	0.1
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.01
Asteraceae	<i>Hypochaeris radicata</i>	*	G2	<2N	0.05
Asteraceae	<i>Sonchus oleraceus</i>	*	G1	<2N	0.1
Asteraceae	<i>Sonchus sp.</i>	*	G1	<2N	1
Caryophyllaceae	<i>Spergula arvensis</i>	*	G2	<2N	0.05
Crassulaceae	<i>Crassula natans var. minus</i>	*	G1	<2N	0.1
Cyperaceae	<i>Ficinia nodosa</i>	0	G1	<2T	0.4
Cyperaceae	<i>Lepidosperma longitudinale</i>	0	G1	10-30	1
Fabaceae	<i>Lotus subbiflorus</i>	*	G1	<2N	0.1
Fabaceae	<i>Trifolium repens</i>	*	G1	<2N	0.1
Geraniaceae	<i>Geranium molle</i>	*	G2	<2N	0.3
Lamiaceae	<i>Mentha pulegium</i>	*	G2	<10	0.4
Myrtaceae	<i>Eucalyptus rufida</i>	0	U1	30-70	10
Myrtaceae	<i>Melaleuca preissiana</i>	0	U2	10-30	6
Poaceae	<i>Avena fatua</i>	*	G1	<2N	0.2
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.1
Poaceae	<i>Ehrharta longiflora</i>	*	G1	<10	0.4
Polygonaceae	<i>Rumex acetosella</i>	*	G2	<2-	0.2
Polygonaceae	<i>Rumex acetosella</i>	*	G2	<2N	0.1
Polygonaceae	<i>Rumex conglomeratus</i>	*	G1	<2-	0.4
Polygonaceae	<i>Rumex crispus</i>	*	M1	10-30	1
Ranunculaceae	<i>Ranunculus muricatus</i>	*	G2	<2N	0.4

Site	GBQ04									
Type: Quadrat	Size: 10 x 10	Date: 30/10/2018	Described by: MT							
Co-ordinates (PCG94)	Easting:	32483.9787	Northing:	99514.5705						
<b>Location:</b> Lot 1 on Diagram 64715										
<b>Vegetation Type:</b>										
Landform: Lower slope	Drainage: Good									
Slope: Moderate										
<b>Soil Colour &amp; Type:</b> Grey Silty Sand										
<b>Vegetation Condition:</b> Very Good (3)										
<b>Disturbances:</b> Weeds										
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – few trees killed										
<b>Bare Ground:</b> 2-10% <b>Humus/Litter:</b> Plentiful – 11-30%										
<b>Wood Litter:</b> Moderate										



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apiaceae	<i>Xanthosia huegelii</i>	0	G2	<2N	0.1
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G2	10-30	0.1
Asparagaceae	<i>Lomandra caespitosa</i>	0	G2	<2N	0.05
Asparagaceae	<i>Lomandra sp.</i>	0	G1	<10	0.4
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.4
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2N	0.4
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G2	<2T	0.1
Asteraceae	<i>Asteridea pulverulenta</i>	0	G2	<2T	0.1
Asteraceae	<i>Hyalosperma cotula</i>	0	G2	<2N	0.05
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2N	0.05
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.2
Campanulaceae	<i>Hybanthus calycinus</i>	0	G2	<2N	0.1
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.4
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2N	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M3	<10	0.2
Ericaceae	<i>Leucopogon propinquus</i>		M1	<10	1-2
Fabaceae	<i>Bossiaea eriocarpa</i>	0	M3	<2T	0.2
Fabaceae	<i>Gompholobium tomentosum</i>	0	M3	<2T	0.2
Fabaceae	<i>Hardenbergia comptoniana</i>		M2	<2N	0.4
Fabaceae	<i>Hovea trisperma</i>		M3	<2T	0.1
Fabaceae	<i>Kennedia prostrata</i>		M3	<2T	0.05
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G2	<2N	0.1
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2T	0.5
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.05
Myrtaceae	<i>Agonis flexuosa</i>	0	U2	10-30	4-6
Myrtaceae	<i>Eucalyptus marginata</i> subsp. <i>marginata</i>	0	U1	<10	6-8
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G2	<2T	0.2
Phytolaccaceae	<i>Phyllanthus calycinus</i>	0	M3	<2N	0.2

Poaceae	<i>Briza maxima</i>	*	G1	10-30	0.4
Poaceae	<i>Ehrharta calycina</i>	*	G1	10-30	0.4
Poaceae	<i>Ehrharta longiflora</i>	*	G1	10-30	0.4
Proteaceae	<i>Banksia attenuata</i>	0	U2	10-30	3-6
Restionaceae	<i>Desmocladus fascicularis</i>	0	G2	<2N	0.05
Styliadiaceae	<i>Levenhookia pusilla</i>	0	G2	<2N	0.05
Styliadiaceae	<i>Styliodium schoenoides</i>	0	G2	<2T	0.05
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M2	<2T	0.5
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<2T	0.5

Site	GBQ05								
Type: Quadrat	Size: 10 x 10	Date: 30/10/2018	Described by: MT						
Co-ordinates (PCG94)	Easting:	32277.9168	Northing:	99520.5024					
<b>Location:</b> Lot 1 on Diagram 64715									
<b>Vegetation Type:</b>									
Landform: Lower slope	Drainage: Good								
Slope: Gentle									
<b>Soil Colour &amp; Type:</b> Yellow Silty Sand									
<b>Vegetation Condition:</b> Very Good (3)									
<b>Disturbances:</b> Weeds									
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – few trees killed									
<b>Bare Ground:</b> <2% <b>Humus/Litter:</b> Moderate – 2-10%									
<b>Wood Litter:</b> Moderate									



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G2	10-30	0.1
Asparagaceae	<i>Lomandra caespitosa</i>	0	G1	<2N	0.05
Asteraceae	<i>Asteridea pulverulenta</i>	0	G2	<2N	0.1
Asteraceae	<i>Hyalosperma cotula</i>	0	G2	<2N	0.05
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2N	0.05
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.05
Campanulaceae	<i>Hybanthus calycinus</i>	0	G2	<2T	0.3
Caryophyllaceae	<i>Petrorhagia dubia</i>	*	G2	<2T	0.2
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.3
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2T	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>	0	M2	10-30	0.2
Droseraceae	<i>Drosera stolonifera</i>	0	G2	<2N	0.1
Ericaceae	<i>Astroloba pallidum</i>	0	M3	<2T	0.1
Ericaceae	<i>Leucopogon propinquus</i>		M1	10-30	1.5
Fabaceae	<i>Bossiaea eriocarpa</i>	0	M3	<2T	0.2
Fabaceae	<i>Gompholobium tomentosum</i>	0	M3	<2N	0.4
Fabaceae	<i>Hardenbergia comptoniana</i>		M2	<2T	0.4
Fabaceae	<i>Trifolium sp.</i>	*	G2	<2N	0.05
Haemodoraceae	<i>Conostylis aculeata</i> subsp. <i>preissii</i>	0	G1	<2N	0.4
Hemerocallidaceae	<i>Agrostocrinum scabrum</i>	0	G1	<2N	0.3
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.1
Orchidaceae	<i>Caladenia flava</i> subsp. <i>flava</i>		G2	<2T	0.1
Orchidaceae	<i>Pyrorchis nigricans</i>	0	G2	<2T	0.05
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G2	<2N	0.3
Orchidaceae	<i>Thelymitra macrophylla</i>		G2	<2T	0.4
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.3
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.3

Primulaceae	<i>Lysimachia arvensis</i>	*	G2	<2T	0.05
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-70	2-6
Restionaceae	<i>Desmocladus fascicularis</i>	0	G2	<2N	0.1
Styliadiaceae	<i>Levenhookia pusilla</i>	0	G2	<2N	0.05
Styliadiaceae	<i>Styliodium calcaratum</i>	0	G2	<2N	0.05
Styliadiaceae	<i>Styliodium schoenoides</i>	0	G2	<2T	0.02
Xanthorrhoeaceae	<i>Xanthorrhoea gracilis</i>	0	M2	<10	0.4

Site	GBQ06							
Type: Quadrat	Size: 10 x 10	Date: 30/10/2018	Described by: MT					
Co-ordinates (PCG94)	Easting:	32664.2075	Northing:	99596.808				
<b>Location:</b> Lot 1 on Diagram 64715								
<b>Vegetation Type:</b>								
Landform: Mid Slope	Drainage: Good							
Slope: Gentle								
Soil Colour & Type: Yellow Sand								
Vegetation Condition: Good (4)								
Disturbances: Weeds								
Fire Age & Intensity: Old > 5 yr – minor impact								
Bare Ground: 31-70% Humus/Litter: Moderate – 11-30%								
Wood Litter: Moderate								

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Amaranthaceae	<i>Ptilotus sericostachyus</i>	0	G2	<2T	0.02
Apiaceae	<i>Eryngium pinnatifidum</i>	0	G2	<2T	0.1
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2T	0.4
Asparagaceae	<i>Lomandra odora</i>	0	G2	<2T	0.1
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.3
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2N	0.1
Asteraceae	<i>Rhodanthe citrina</i>	0	G2	<2T	0.1
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.05
Campanulaceae	<i>Hybanthus calycinus</i>	0	G2	<2T	0.1
Campanulaceae	<i>Lobelia heterophylla</i>	0	G2	<2N	0.1
Caryophyllaceae	<i>Petrorhagia dubia</i>	*	G2	<2N	0.1
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2N	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>	0	M3	<10	0.2
Dilleniaceae	<i>Hibbertia racemosa</i>		M3	<2T	0.2
Ericaceae	<i>Leucopogon propinquus</i>		M1	<10	1
Fabaceae	<i>Hardenbergia comptoniana</i>		G	<2N	0.4
Haemodoraceae	<i>Conostylis juncea</i>	0	G2	<2N	0.1
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2T	0.5
Hemerocallidaceae	<i>Tricoryne elatior</i>	0	G2	<2T	0.1
Myrtaceae	<i>Agonis flexuosa</i>	0	U1	10-30	6-8
Myrtaceae	<i>Agonis flexuosa</i>	0	M1	10-30	1-2
Phytolaccaceae	<i>Phyllanthus calycinus</i>	0	M3	<2T	0.2
Poaceae	<i>Avena fatua</i>	*	G1	<2N	0.4
Poaceae	<i>Briza maxima</i>	*	G1	<10	0.4
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.4
Primulaceae	<i>Lysimachia arvensis</i>	*	G2	<2N	0.05
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-70	6-8
Proteaceae	<i>Banksia grandis</i>	0	M1	<10	2

Rubiaceae	<i>Opercularia vaginata</i>	0	G1	<2N	0.2
Stylidiaceae	<i>Levenhookia pusilla</i>	0	G2	<2N	0.05
Thymelaeaceae	<i>Pimelea rosea subsp rosea</i>	0	M2	<2T	0.8
Xanthorrhoeaceae	<i>Chamaescilla corymbosa</i>	0	G2	<10	0.1
Xanthorrhoeaceae	<i>Xanthorrhoea gracilis</i>	0	M2	<10	0.4
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<10	0.8

Site	GBQ07					
Type: Quadrat	Size: 10 x 10	Date: 30/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	32961.506	Northing:	99680.0124		
<b>Location:</b> Lot 48 on Diagram 61255						
<b>Vegetation Type:</b>						
Landform: Plain	Slope: Negligible	Drainage: Good				
<b>Soil Colour &amp; Type:</b> Yellow Silty Sand						
<b>Vegetation Condition:</b> Degraded (6)						
<b>Disturbances:</b> Weeds, grazing, milling						
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – few trees killed						
<b>Bare Ground:</b> 2-10% <b>Humus/Litter:</b> Moderate – 11-30%						
<b>Wood Litter:</b> Moderate						
						

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Asteraceae	<i>Cotula turbinata</i>	*	G2	<2T	0.05
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Caryophyllaceae	<i>Petrorhagia dubia</i>	*	G2	<2N	0.1
Dilleniaceae	<i>Hibbertia cuneiformis</i>	0	M1	<10	2
Euphorbiaceae	<i>Euphorbia peplus</i>	*	G2	<2N	0.1
Fabaceae	<i>Trifolium sp.</i>	*	G2	<2N	0.02
Myrtaceae	<i>Agonis flexuosa</i>	0	U1	30-70	8-10
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<10	0.05
Poaceae	<i>Avena barbata</i>	*	G1	10-30	0.3
Poaceae	<i>Briza maxima</i>	*	G1	<10	0.2
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.3
Poaceae	<i>Ehrharta longiflora</i>	*	G1	<2N	0.4
Poaceae	<i>Lolium rigidum</i>	*	G1	10-30	0.3
Polygonaceae	<i>Rumex acetosella</i>	*	G2	<2N	0.1
Proteaceae	<i>Banksia attenuata</i>	0	U2	<2T	6
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<2T	0.2

Site	GBQ08			
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT	
Co-ordinates (PCG94)	Easting:	35113.4684	Northing:	104443.1311
Location: P Road				
Vegetation Type:				
Landform: Drainage Depression Slope: Negligible	Drainage: Seasonal Wet			
Soil Colour & Type: Grey Silty Sand				
Vegetation Condition: Good (4)				
Disturbances: Grazed, fragment, hydrology likely disturbed				
Fire Age & Intensity: Old > 5 yr – minor impact				
Bare Ground: 11-30% Humus/Litter: Moderate – 31-70%				
Wood Litter: Moderate				



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Anarthriaceae	<i>Lyginia barbata</i>		G1	<2N	0.4
Apiaceae	<i>Xanthosia huegelii</i>	0	G2	<2T	0.3
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.03
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.3
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G1	<2T	0.4
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.4
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2N	0.4
Dasypogonaceae	<i>Dasypogon bromeliifolius</i>		G1	<10	0.2
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>	0	M3	<2T	0.2
Dilleniaceae	<i>Hibbertia vaginata</i>	0	M3	<2T	0.3
Droseraceae	<i>Drosera</i> sp. climbing (nf)	0	G2	<2N	0.1
Fabaceae	<i>Acacia applanata</i>	0	M2	<2T	0.2
Fabaceae	<i>Acacia huegelii</i>	0	M3	<2T	0.1
Fabaceae	<i>Bossiaea eriocarpa</i>	0	M2	<2T	0.2
Fabaceae	<i>Hovea trisperma</i>		M3	<2T	0.2
Fabaceae	<i>Jacksonia horrida</i>	0	M2	<2T	0.6
Fabaceae	<i>Kennedia prostrata</i>		M3	<2T	0.05
Myrtaceae	<i>Corymbia calophylla</i>		U1	<10	6-7
Myrtaceae	<i>Kunzea glabrescens</i>	0	U2	30-70	5
Myrtaceae	<i>Melaleuca thymoides</i>		M1	<10	1.4
Orchidaceae	<i>Pyrorchis nigricans</i>	0	G2	<2T	0.02
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G1	<2T	0.2
Orchidaceae	<i>Thelymitra graminea</i>	0	G1	<2T	0.1
Orchidaceae	<i>Thelymitra macrophylla</i>	0	G2	<2T	0.2
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.2
Proteaceae	<i>Banksia attenuata</i>	0	U2	<10	5
Proteaceae	<i>Banksia grandis</i>	0	M1	<2T	0.8
Proteaceae	<i>Banksia ilicifolia</i>	0	U1	<10	5-7
Proteaceae	<i>Stirlingia latifolia</i>		M2	<10	0.3

Restionaceae	<i>Desmocladus fascicularis</i>	0	G2	<2N	0.1
Restionaceae	<i>Hypolaena exsulca</i>	0	G1	<2N	0.3
Stylidiaceae	<i>Styliodium brunonianum</i>	0	G1	<2T	0.3
Stylidiaceae	<i>Styliodium ciliatum</i>	0	G2	<2T	0.2
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M1	<2T	0.6
Zamiaceae	<i>Macrozamia riedlei</i>	0	M3	<2T	0.2

Site	GBQ09					
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	35222.8637	Northing:	103453.3281		
<b>Location:</b> Lot 500 on Plan 24543						
<b>Vegetation Type:</b>						
Landform: Swamp	Slope: Negligible	Drainage: Seasonal Wet				
<b>Soil Colour &amp; Type:</b> Black silt						
<b>Vegetation Condition:</b> Degraded (6)						
<b>Disturbances:</b> Weeds, grazing, cattle, clearing, altered drainage						
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – no damage						
<b>Bare Ground:</b> 2% <b>Humus/Litter:</b> Sparse – 2-10%						
<b>Wood Litter:</b> Negligible						



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Zantedeschia aethiopica</i>	*DP/WoNS	M1	<2T	0.3
Asteraceae	<i>Cotula coronopifolia</i>	*	G2	<2T	0.1
Asteraceae	<i>Cotula turbinata</i>	*	G2	<2T	0.1
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Cyperaceae	<i>Carex divisa</i>	*	G2	10-30	0.1
Cyperaceae	<i>Carex divisa</i>	*	G1	<2N	0.2
Cyperaceae	<i>Isolepis cernua</i> var. <i>setiformis</i>	0	G2	<2N	0.05
Fabaceae	<i>Lotus subbiflorus</i>	*	G2	10-30	0.05
Fabaceae	<i>Trifolium arvense</i> var. <i>arvense</i>	*	G2	<2N	0.1
Fabaceae	<i>Trifolium repens</i>	*	G2	<10	0.1
Iridaceae	<i>Romulea rosea</i>	*	G1	<2N	0.1
Juncaceae	<i>Juncus pallidus</i>	0	G1	<10	1
Myrtaceae	<i>Melaleuca preissiana</i>	0	U1	<10	4-5
Myrtaceae	<i>Melaleuca rhaphiophylla</i>	0	G1	<10	4-5
Orchidaceae	<i>Microtis media</i> subsp <i>media</i>	0	G1	<2N	0.3
Phytolaccaceae	<i>Phytolacca octandra</i>	*	G1	<2T	0.2
Poaceae	<i>Cynodon dactylon</i>	*	G2	<10	0.1
Poaceae	<i>Holcus lanatus</i>	*	G2	10-30	0.4
Poaceae	<i>Hordeum leporinum</i>	*	G1	<2N	0.3
Poaceae	<i>Lolium rigidum</i>	*	G1	<10	0.2
Poaceae	<i>Sporobolus africanus</i>	*	G1	<2N	0.3

Site	GBQ10					
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	35586.6254	Northing:	103240.2728		
<b>Location:</b> Lot 244 on Plan 232800						
<b>Vegetation Type:</b>						
Landform: Swamp	Slope: Negligible	Drainage: Seasonal Wet				
<b>Soil Colour &amp; Type:</b> Black Silt						
<b>Vegetation Condition:</b> Good (4)						
<b>Disturbances:</b> Weeds, grazing, cattle						
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – no damage						
<b>Bare Ground:</b> 31-70% <b>Humus/Litter:</b> Sparse – 11-30%						
<b>Wood Litter:</b> Moderate						



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2T	0.1
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.1
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.1
Cyperaceae	<i>Baumea juncea</i>	0	G1	30-70	0.3
Cyperaceae	<i>Cyathochaeta avenacea</i>		G1	<2T	0.4
Cyperaceae	<i>Cyperus tenellus</i>	*	G2	<2N	0.05
Droseraceae	<i>Drosera glanduligera</i>	0	G2	<2N	0.05
Fabaceae	<i>Lotus subbiflorus</i>	*	G2	<2N	0.1
Fabaceae	<i>Ornithopus compressus</i>	*	G2	<2N	0.2
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.1
Myrtaceae	<i>Astartea scoparia</i>		M1	<2T	0.1
Myrtaceae	<i>Kunzea glabrescens</i>	0	U1	30-70	4-6
Myrtaceae	<i>Kunzea glabrescens</i>	0	M1	<10	2-3
Orchidaceae	<i>Disa bracteata</i>	*	G2	<2N	0.1
Poaceae	<i>Anthoxanthum odoratum</i>	*	G1	<10	0.2
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.1

Site	GBQ11						
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT				
Co-ordinates (PCG94)	Easting:	34440.5372	Northing:	104446.3494			
Location: P Road							
Vegetation Type:							
Landform: Mid Slope Slope: Gentle	Drainage: Good						
Soil Colour & Type: Yellow Silty Sand							
Vegetation Condition: Good (4)							
Disturbances: Weeds, clearing for adjacent fire break							
Fire Age & Intensity: Old > 5 yr – few trees killed							
Bare Ground: 11-30% Humus/Litter: Moderate – 31-70%							
Wood Litter: Moderate							



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G1	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2N	0.1
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.3
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2N	0.4
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.02
Asteraceae	<i>Lagenophora huegelii</i>	0	G2	<2N	0.05
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2T	0.3
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M1	30-10	0.4
Droseraceae	<i>Drosera stolonifera</i>	0	G2	<2N	0.1
Ericaceae	<i>Leucopogon propinquus</i>		M1	<2T	0.6
Ericaceae	<i>Petrophile linearis</i>	0	M3	<2T	0.1
Fabaceae	<i>Hardenbergia comptoniana</i>		M3	<2T	0.2
Fabaceae	<i>Trifolium campestre</i>	*	G2	<2N	0.1
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G2	<2N	0.1
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2N	0.3
Hemerocallidaceae	<i>Stypandra glauca</i>	0	G1	<2N	0.1
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2T	0.2
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.05
Myrtaceae	<i>Agonis flexuosa</i>	0	U2	70-30	8
Myrtaceae	<i>Corymbia calophylla</i>		U1	10-30	8
Orchidaceae	<i>Microtis</i> sp. nf tall (45 cm)	0	G1	<2T	0.4
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G1	<2T	0.2
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.2
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.1
Primulaceae	<i>Lysimachia arvensis</i>	*	G2	<2N	0.05
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-10	4-6
Restionaceae	<i>Desmocladus fascicularis</i>	0	G2	<2N	0.1
Restionaceae	<i>Desmocladus flexuosa</i>	0	G1	<2N	0.1
Rubiaceae	<i>Opercularia hispidula</i>		G1	<10	0.4
Xanthorrhoeaceae	<i>Chamaescilla corymbosa</i>	0	G1	<2N	0.1

Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M1	<2T	0.4
Zamiaceae	<i>Macrozamia riedlei</i>	0	M1	<2T	0.4

Site	GBQ12								
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT						
Co-ordinates (PCG94)	Easting:	34441.4501	Northing:	103974.4823					
Location: P Road									
Vegetation Type:									
Landform: Mid Slope Slope: Gentle	Drainage: Good								
Soil Colour & Type: Yellow Silty Sand									
Vegetation Condition: Good (4)									
Disturbances: Weeds, clearing for adjacent fire break									
Fire Age & Intensity: Old > 5 yr – few trees killed									
Bare Ground: 11-30% Humus/Litter: Moderate – 31-70%									
Wood Litter: Moderate									



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.05
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.05
Caryophyllaceae	<i>Petrorhagia dubia</i>	*	G1	<2T	0.1
Ericaceae	<i>Leucopogon propinquus</i>		M1	<2T	0.1
Fabaceae	<i> Hardenbergia comptoniana</i>		M1	<2T	0.1
Fabaceae	<i>Trifolium campestre</i>	*	G2	<2N	0.02
Haemodoraceae	<i>Conostylis aculeata subsp preissii</i>	0	G1	<2N	0.1
Hemerocallidaceae	<i>Tricoryne elatior</i>	0	G2	<2T	0.1
Myrtaceae	<i>Agonis flexuosa</i>	0	U1	30-10	8
Myrtaceae	<i>Eucalyptus marginata subsp. marginata</i>	0	U1	<2T	12
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2N	0.02
Poaceae	<i>Austrostipa campylachne</i>	0	G1	<2T	0.6
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.4
Poaceae	<i>Briza minor</i>	*	G1	<2N	0.1
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.2
Primulaceae	<i>Lysimachia arvensis</i>	*	G2	<2N	0.05
Proteaceae	<i>Banksia attenuata</i>	0	U2	<10	4
Proteaceae	<i>Xylomelum occidentale</i>	0	U2	30-10	4

Site	GBQ13								
Type: Quadrat	Size: 10 x 10	Date: 31/10/2018	Described by: MT						
Co-ordinates (PCG94)	Easting:	32045.6283	Northing:	99400.8077					
<b>Location:</b> Lot 3 on Diagram 69286									
<b>Vegetation Type:</b>									
Landform: Mid slope	Drainage: Good								
Slope: Negligible									
Soil Colour & Type: Yellow Silty Sand									
<b>Vegetation Condition:</b> Good (4)									
<b>Disturbances:</b> Weeds, road reserve									
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – no damage									
<b>Bare Ground:</b> <2% <b>Humus/Litter:</b> Plentiful – 31-70%									
<b>Wood Litter:</b> Sparse									

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apiaceae	<i>Daucus glochidiatus</i>	0	G2	<2T	0.05
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.1
Asparagaceae	<i>Lomandra odora</i>	0	G2	<2T	0.1
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.4
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2N	0.4
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.2
Dasypogonaceae	<i>Dasypogon bromeliifolius</i>		G1	30-10	0.2
Dilleniaceae	<i>Hibbertia cuneiformis</i>	0	M1	<10	1-1.2
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M2	<10	0.3
Ericaceae	<i>Leucopogon propinquus</i>		M2	<2T	0.3
Fabaceae	<i>Acacia applanata</i>	0	M1	<2T	0.8-1
Fabaceae	<i> Hardenbergia comptoniana</i>		M3	<2T	0.1
Fabaceae	<i>Kennedia prostrata</i>		M3	<2T	0.05
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G2	<2T	0.1
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2N	0.4
Myrtaceae	<i>Agonis flexuosa</i>	0	U1	<10	6
Myrtaceae	<i>Corymbia calophylla</i>		U1	<10	6-10
Orchidaceae	<i>Microtis media</i> subsp <i>media</i>	0	G2	<2T	0.1
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G1	<2T	0.2
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2T	0.05
Phyllanthaceae	<i>Poranthera microcephala</i>	0	G2	<2T	0.05
Poaceae	<i>Briza maxima</i>	*	G1	<2T	0.2
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2T	0.4
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-10	5-6
Restionaceae	<i>Desmocladus fascicularis</i>	0	G2	<2N	0.05
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<2T	0.3

Site	GBQ14					
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	31455.4989	Northing:	99208.8529		
<b>Location:</b> Lot 6208 on Plan 18079						
<b>Vegetation Type:</b>						
Landform: Plain	Slope: Negligible	Drainage: Good				
<b>Soil Colour &amp; Type:</b> Grey Silty Sand						
<b>Vegetation Condition:</b> Good (4)						
<b>Disturbances:</b> Weeds, road reserve						
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – few trees killed						
<b>Bare Ground:</b> <2% <b>Humus/Litter:</b> Plentiful – 31-70%						
<b>Wood Litter:</b> Moderate						
						

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apocynaceae	<i>Alyxia buxifolia</i>	0	M2	<2T	0.4
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<10	0.3
Asparagaceae	<i>Lomandra hermaphrodita</i>	0	G1	<2N	0.4
Asparagaceae	<i>Lomandra purpurea</i>		G1	<2T	0.1
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<10	0.3
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2T	0.3
Asparagaceae	<i>Thysanotus ? mangesianus</i>	0	G1	<2T	CLIMB
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2T	0.02
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.4
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2N	0.4
Dilleniaceae	<i>Hibbertia cuneiformis</i>	0	M2	<2T	0.3
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M3	<2T	0.2
Droseraceae	<i>Drosera</i> sp. climbing (nf)	0	G1	<2T	0.1
Ericaceae	<i>Leucopogon propinquus</i>		M2	<2T	0.3
Ericaceae	<i>Petrophile linearis</i>	0	M2	<2T	0.3
Fabaceae	<i>Acacia pulchella</i> var <i>pulchella</i>	0	M2	<2T	0.3
Fabaceae	<i>Acacia appianata</i>	0	M2	<2T	0.2
Fabaceae	<i>Hardenbergia comptoniana</i>		M2	<2T	?
Fabaceae	<i>Jacksonia furcellata</i>	0	M2	<2T	0.4
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G1	<2N	0.3
Iridaceae	<i>Gladiolus caryophyllaceus</i>	*	G1	<2N	0.1
Iridaceae	<i>Ixia</i> sp	*	G1	<2T	0.1
Iridaceae	<i>Orthrosanthus laxus</i> var. <i>laxus</i>	0	G1	<2N	0.3
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2T	0.3
Myrtaceae	<i>Corymbia calophylla</i>		U1	70-30	10
Orchidaceae	<i>Caladenia flava</i> subsp <i>flava</i>		G2	<2T	0.1
Orchidaceae	<i>Hyperanthus serratus</i>	0	G1	<2T	0.4
Orchidaceae	<i>Microtis media</i> subsp <i>media</i>	0	G1	<2T	0.3
Orchidaceae	<i>Pyrorchis nigricans</i>	0	G2	<2N	0.02
Orchidaceae	<i>Thelymitra benthamiana</i>	0	G1	<2T	0.3

Orchidaceae	<i>Thelymitra macrophylla</i>	0	G1	<2T	0.3
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2N	0.02
Pittosporaceae	<i>Billardiera variifolia</i>	0	G1	<2T	0.2
Poaceae	<i>Austrostipa campylachne</i>	0	G1	<2N	0.3
Poaceae	<i>Ehrharta calycina</i>	*	G1	<10	0.4
Proteaceae	<i>Banksia attenuata</i>	0	U2	<10	4
Proteaceae	<i>Banksia grandis</i>	0	M1	<2T	1.2
Proteaceae	<i>Persoonia longifolia</i>	0	M1	<2T	1.4
Rhamnaceae	<i>Spyridium globulosum</i>	0	M1	<2T	1.2
Rutaceae	<i>Philotheca spicata</i>		M2	<2T	0.2
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M2	<2T	0.4
Zamiaceae	<i>Macrozamia riedlei</i>	0	M2	<2T	2

Site	GBQ15						
Type: Quadrat	Size: 10 x 10		Date: 01/11/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	31840.577		Northing:	99277.3784		
<b>Location:</b> Lot 3 on Diagram 69286							
<b>Vegetation Type:</b>							
Landform: Plain	Slope: Gentle	Drainage: Good					
<b>Soil Colour &amp; Type:</b> Yellow Silty Sand							
<b>Vegetation Condition:</b> Degraded (6)							
<b>Disturbances:</b> Weeds							
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – few trees killed							
<b>Bare Ground:</b> 11-30% <b>Humus/Litter:</b> Moderate – 31-70%							
<b>Wood Litter:</b> Moderate							

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Zantedeschia aethiopica</i>	*DP/WoNS	G1	<2T	0.3
Asphodelaceae	<i>Trachyandra divaricata</i>	*	G1	<2T	0.4
Asteraceae	<i>Hypochoeris glabra</i>	*	G2	<2N	0.05
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.1
Crassulaceae	<i>Crassula colorata</i> var. <i>colorata</i>	0	G2	<2N	0.02
Crassulaceae	<i>Crassula natans</i> var. <i>minus</i>	*	G2	<2N	0.02
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2N	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>	0	M2	<2T	0.2
Droseraceae	<i>Drosera stolonifera</i>	0	G2	<2T	0.1
Fabaceae	<i> Hardenbergia comptoniana</i>		M3	<2T	0.1
Fabaceae	<i>Kennedia prostrata</i>		M3	<2T	0.05
Fabaceae	<i>Lotus subbiflorus</i>	*	G2	<2N	0.02
Fabaceae	<i>Trifolium campestre</i>	*	G2	<2N	0.05
Haemodoraceae	<i>Conostylis aculeata</i> subsp. <i>preissii</i>	0	G2	<10	0.1
Iridaceae	<i>Ixia</i> sp	*	G2	<2N	0.1
Iridaceae	<i>Moraea flaccida</i>	*	G1	<10	0.4
Iridaceae	<i>Romulea rosea</i>	*	G2	<2N	0.05
Myrtaceae	<i>Corymbia calophylla</i>		U1	30-10	8-10
Orchidaceae	<i>Disa bracteata</i>	*	G2	<2T	0.1
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2N	0.02
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.3
Poaceae	<i>Bromus diandrus</i>	*	G1	<2N	0.4
Poaceae	<i>Ehrharta calycina</i>	*	G1	70-30	0.4
Proteaceae	<i>Banksia attenuata</i>	0	M1	70-30	4-6
Restionaceae	<i>Desmocladus fascicularis</i>	0	G2	<2N	0.05
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M1	<2T	0.5
Zamiaceae	<i>Macrozamia riedlei</i>	0	M1	<2T	0.4

Site	GBQ16							
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: MT					
Co-ordinates (PCG94)	Easting:	31607.279	Northing:	99053.8198				
<b>Location:</b> Lot 3 on Diagram 69286								
<b>Vegetation Type:</b>								
Landform: Plain	Slope: Gentle	Drainage: Good						
<b>Soil Colour &amp; Type:</b> Yellow Silty Sand								
<b>Vegetation Condition:</b> Good (4)								
<b>Disturbances:</b> Weeds								
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – few trees killed								
<b>Bare Ground:</b> 2-10% <b>Humus/Litter:</b> Moderate – 31-70%								
<b>Wood Litter:</b> Moderate								
								

Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araceae	<i>Zantedeschia aethiopica</i>	*DP/WoNS	G1	<2T	0.3
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2T	0.3
Asparagaceae	<i>Lomandra hermaphrodita</i>	0	G1	<2T	0.3
Asparagaceae	<i>Lomandra hermaphrodita</i>	0	G1	<2N	0.4
Asparagaceae	<i>Lomandra odora</i>	0	G2	<2T	0.1
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2T	0.4
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G1	<2T	0.1
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.1
Colchicaceae	<i>Burchardia congesta</i>		G1	<2T	0.4
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2T	0.3
Dilleniaceae	<i>Hibbertia cuneiformis</i>	0	M1	<2T	0.4-1.2
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M3	<10	0.3
Dilleniaceae	<i>Hibbertia racemosa</i>		M3	<2T	0.1
Ericaceae	<i>Leucopogon propinquus</i>		M2	<2T	0.2
Fabaceae	<i>Kennedia prostrata</i>		M3	<2T	0.1
Fabaceae	<i>Trifolium campestre</i>	*	G2	<2N	0.05
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G1	<10	0.4
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2N	0.5
Iridaceae	<i>Ixia sp</i>	*	G2	<10	0.2
Iridaceae	<i>Orthrosanthus laxus</i> var. <i>laxus</i>	0	G1	<2T	0.3
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2-	0.3
Myrtaceae	<i>Agonis flexuosa</i>	0	U2	<2T	4
Myrtaceae	<i>Corymbia calophylla</i>		U1	30-10	8-10
Orchidaceae	<i>Microtis media</i> subsp <i>media</i>	0	G2	<2T	0.3
Orchidaceae	<i>Theelymitra benthamiana</i>	0	G2	<2T	0.1
Orchidaceae	<i>Theelymitra macrophylla</i>	0	G2	<2T	0.1
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2N	0.05
Poaceae	<i>Austrostipa campylachne</i>	0	G1	<2T	0.6
Poaceae	<i>Avena barbata</i>	*	G1	<2N	0.4
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.1

Poaceae	<i>Ehrharta calycina</i>	*	G1	<10	0.4-0.8
Proteaceae	<i>Banksia attenuata</i>	0	U2	70-30	6-8
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M1	<2T	0.6

Site	GBQ17						
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: MT				
Co-ordinates (PCG94)	Easting:	31521.3093	Northing:	99001.5251			
<b>Location:</b> Lot 3 on Diagram 69286							
<b>Vegetation Type:</b>							
Landform: Plain	Slope: Gentle	Drainage: Good					
<b>Soil Colour &amp; Type:</b> Yellow Silty Sand							
<b>Vegetation Condition:</b> Good (4)							
<b>Disturbances:</b> Weeds							
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – few trees killed							
<b>Bare Ground:</b> 2-10% <b>Humus/Litter:</b> Moderate – 31-70%							
<b>Wood Litter:</b> Moderate							



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apiaceae	<i>Daucus glochidiatus</i>	0	G2	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2T	0.2
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<2N	0.4
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G1	<2T	0.1
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.02
Asteraceae	<i>Ursinia anthemoides</i>	*	G2	<2N	0.05
Colchicaceae	<i>Burchardia congesta</i>		G1	<2T	0.3
Cyperaceae	<i>Schoenus grandiflorus</i>	0	G1	<10	0.3
Dilleniaceae	<i>Hibbertia cuneiformis</i>	0	M2	<2T	0.6
Dilleniaceae	<i>Hibbertia hypericoides subsp. hypericoides</i>	0	M3	<2T	0.2
Fabaceae	<i>Kennedia prostrata</i>		G1	<2T	0.05
Fabaceae	<i>Ornithopus compressus</i>	*	G2	<2T	0.02
Fabaceae	<i>Trifolium campestre</i>	*	G2	<2N	0.02
Fabaceae	<i>Trifolium repens</i>	*	G2	<2N	0.02
Haemodoraceae	<i>Conostylis aculeata subsp. preissii</i>	0	G1	<10	0.3
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2T	0.2
Iridaceae	<i>Ixia sp</i>	*	G1	<2T	0.2
Iridaceae	<i>Orthrosanthus laxus var. laxus</i>	0	G1	<2T	0.2
Myrtaceae	<i>Corymbia calophylla</i>		U1	<10	10
Myrtaceae	<i>Kunzea glabrescens</i>	0	M2	<2N	0.5
Orchidaceae	<i>Disa bracteata</i>	*	G2	<2T	0.1
Orchidaceae	<i>Theelymitra benthamiana</i>	0	G1	<2T	0.3
Oxalidaceae	<i>Oxalis pes-caprae</i>	*	G2	<2N	0.05
Poaceae	<i>Avena barbata</i>	*	G1	<2N	0.4
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.3
Poaceae	<i>Ehrharta calycina</i>	*	G1	<10	0.4
Proteaceae	<i>Banksia attenuata</i>	0	U1	70-30	6-8
Restionaceae	<i>Desmocladus fascicularis</i>	0	G2	<2N	0.05
Restionaceae	<i>Desmocladus flexuosa</i>	0	G1	<2N	0.3
Rhamnaceae	<i>Spyridium globulosum</i>	0	M1	<10	1-2

Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M2	<10	0.6
Zamiaceae	<i>Macrozamia riedlei</i>	0	M3	<2T	0.2

Site	GBQ18					
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: MT			
Co-ordinates (PCG94)	Easting:	31322.9712	Northing:	98931.2642		
<b>Location:</b> Lot 6208 on Plan 18079 (Road reserve)						
<b>Vegetation Type:</b>						
Landform: Plain	Slope: Negligible	Drainage: Good				
<b>Soil Colour &amp; Type:</b> Grey Silty Sand						
<b>Vegetation Condition:</b> Very Good (3)						
<b>Disturbances:</b> Milling, weeds, road reserve, rubbish						
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – few trees killed						
<b>Bare Ground:</b> 2% <b>Humus/Litter:</b> Plentiful – 11-30%						
<b>Wood Litter:</b> Plentiful						



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Araliaceae	<i>Trachymene pilosa</i>	0	G2	<2N	0.05
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2N	0.4
Asparagaceae	<i>Dichopogon capillipes</i>	0	G1	<2T	0.2
Asparagaceae	<i>Phlebocarya ciliata</i>	0	G1	<2N	0.4
Asparagaceae	<i>Sowerbaea laxiflora</i>		G1	<2N	0.4
Asparagaceae	<i>Thysanotus ? manglesianus</i>	0	G2	<2T	0.01
Asteraceae	<i>Hypochaeris glabra</i>	*	G2	<2N	0.02
Colchicaceae	<i>Burchardia congesta</i>		G1	<2N	0.3
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0	G1	<2T	0.4
Cyperaceae	<i>Schoenus grandiflorus</i>	0	G1	<10	0.4
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp <i>hypericoides</i>	0	M2	30-10	0.4
Droseraceae	<i>Drosera stolonifera</i>	0	G2	<2T	0.05
Ericaceae	<i>Leucopogon propinquus</i>		M2	<2T	0.3
Fabaceae	<i>Acacia pulchella</i> var. <i>glaberrima</i>		M3	<2T	0.3
Fabaceae	<i>Bossiaea eriocarpa</i>	0	M3	<2T	0.1
Fabaceae	<i>Gompholobium tomentosum</i>	0	M2	<2T	0.3
Fabaceae	<i>Jacksonia furcellata</i>	0	M2	<2T	0.3
Haemodoraceae	<i>Conostylis aculeata</i> subsp <i>preissii</i>	0	G2	<2N	0.2
Hemerocallidaceae	<i>Dianella revoluta</i>	0	G1	<2T	0.4
Iridaceae	<i>Gladiolus caryophyllaceus</i>	*	G1	<2T	0.4
Iridaceae	<i>Ixia sp</i>	*	G2	<2N	0.2
Iridaceae	<i>Orthrosanthus laxus</i> var. <i>laxus</i>	0	G2	<10	0.2
Iridaceae	<i>Patersonia occidentalis</i>	0	G1	<2T	0.4
Myrtaceae	<i>Corymbia calophylla</i>		U1	30-10	8-10
Orchidaceae	<i>Caladenia flava</i> subsp. <i>flava</i>		G2	<2T	0.2
Orchidaceae	<i>Eriochilus dilatatus</i> (leaf only)	0	G2	<2T	0.2
Orchidaceae	<i>Hyperanthus serratus</i>	0	G2	<2T	0.3
Orchidaceae	<i>Microtis media</i> subsp. <i>media</i>	0	G2	<2N	0.3
Orchidaceae	<i>Thelymitra graminea</i>	0	G2	<2T	0.4
Orchidaceae	<i>Thelymitra macrophylla</i>	0	G1	<2T	0.4

Poaceae	<i>Austrostipa campylachne</i>	0	G1	<2T	0.6
Poaceae	<i>Briza maxima</i>	*	G1	<2N	0.3
Poaceae	<i>Ehrharta calycina</i>	*	G1	<2N	0.4
Proteaceae	<i>Banksia attenuata</i>	0	U1	30-10	6-8
Rhamnaceae	<i>Spyridium globulosum</i>	0	M1	<10	1.6-3
Rubiaceae	<i>Opercularia apiciflora</i>	0	G2	<2T	0.1
Styliadiaceae	<i>Levenhookia pusilla</i>	0	G2	<2N	0.02
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0	M2	<2T	0.5
Zamiaceae	<i>Macrozamia riedlei</i>	0	M3	<2T	0.3

Site	GBQ19					
Type: Quadrat	Size: 10 x 10	Date: 01/11/2018	Described by: AB			
Co-ordinates (PCG94)	Easting:	31063.1825	Northing:	98473.2869		
<b>Location:</b> Lot 305 on Plan 37388 (R 23000)						
<b>Vegetation Type:</b> VT1						
Landform: Plain	Slope: Negligible	Drainage: -				
<b>Soil Colour &amp; Type:</b> Brown Loamy Sand						
<b>Vegetation Condition:</b> Good (4)						
<b>Disturbances:</b> Weeds						
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – minor impact						
<b>Bare Ground:</b> – <b>Humus/Litter:</b> Moderate						
<b>Wood Litter:</b> Sparse						



Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Asparagaceae	<i>Dichopogon capillipes</i>			<2N	
Asteraceae	<i>Podolepis gracilis</i>			<2N	
Cyperaceae	<i>Lepidosperma</i> sp. (nf)			<2N	
Dilleniaceae	<i>Hibbertia hypericoides</i>			30-10%	
Dilleniaceae	<i>Hibbertia racemosa</i>			<10%	
Fabaceae	<i>Acacia pulchella</i> var. <i>glaberrima</i>			<2T	
Haemodoraceae	<i>Conostylis aculeata</i>			<2N	
Haemodoraceae	<i>Phlebocarya ciliata</i>			<10%	
Iridaceae	<i>Patersonia occidentalis</i>			<2N	
Loranthaceae	<i>Nuytsia floribunda</i>			<10%	10
Myrtaceae	<i>Corymbia calophylla</i>			<2T	20
Myrtaceae	<i>Eucalyptus marginata</i> subsp. <i>marginata</i>			30-10%	20
Phytolaccaceae	<i>Phyllanthus calycinus</i>			<2N	
Poaceae	<i>Austrostipa flavescens</i>			<2N	
Poaceae	<i>Briza maxima</i>	*		<10%	
Proteaceae	<i>Banksia attenuata</i>			30-10%	15
Proteaceae	<i>Banksia grandis</i>			<10%	10
Proteaceae	<i>Xylomelum occidentale</i>			<10%	10
Restionaceae	<i>Desmocladus fascicularis</i>			<2N	
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>			<10%	
Zamiaceae	<i>Macrozamia riedlei</i>			30-10%	

Site	GBQ20					
Type: Quadrat	Size: 10 x 10	Date: 1/11/2018	Described by: AB			
Co-ordinates (PCG94)	Easting:	34713.6684	Northing:	100618.3735		
<b>Location:</b> Lot 155 on Plan 232768						
<b>Vegetation Type:</b> VT2						
Landform: Plain	Slope: Negligible	Drainage: Good				
<b>Soil Colour &amp; Type:</b> Brown Sand						
<b>Vegetation Condition:</b> Degraded (6)						
<b>Disturbances:</b> –						
<b>Fire Age &amp; Intensity:</b> Old > 5 yr – minor impact						
<b>Bare Ground:</b> – <b>Humus/Litter:</b> Moderate						
<b>Wood Litter:</b> Moderate						

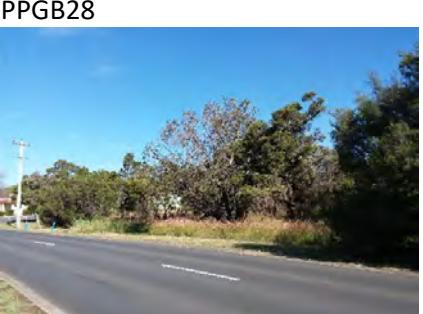


Family	Taxon	Status	Stratum	Cover (%)	Height (m)
Apiaceae	<i>Xanthosia huegelii</i>	0		<2T	0.2
Asparagaceae	<i>Lomandra ?odora</i>	0		<2T	0.3
Asparagaceae	<i>Lomandra caespitosa</i>	0		<2T	0.3
Asparagaceae	<i>Lomandra sericea</i>	0		<2T	0.3
Asteraceae	<i>Hypochaeris glabra</i>	*		<2N	0.1
Asteraceae	<i>Lagenophora huegelii</i>	0		<2T	0.1
Cyperaceae	<i>Lepidosperma pubisquamum</i>	0		<2N	0.3
Dilleniaceae	<i>Hibbertia hypericoides</i> subsp. <i>hypericoides</i>	0		<2N	0.3
Fabaceae	<i>Acacia pulchella</i> var. <i>glaberrima</i>			<2N	0.3
Fabaceae	<i>Bossiaea eriocarpa</i>			<2T	0.3
Fabaceae	<i>Gompholobium tomentosum</i>			<2T	0.3
Fabaceae	<i>Hardenbergia comptoniana</i>			<2T	cr
Fabaceae	<i>Jacksonia furcellata</i>	0		<2N	1.5
Fabaceae	<i>Kennedia prostrata</i>			<2T	cr
Haemodoraceae	<i>Conostylis aculeata</i> subsp. <i>preissii</i>	0		<2T	0.3
Iridaceae	<i>Romulea rosea</i> var. <i>communis</i>	*		<2T	0.1
Myrtaceae	<i>Agonis flexuosa</i>	0		<10%	5
Myrtaceae	<i>Hypocalymma robustum</i>	0		<2T	0.3
Poaceae	<i>Austrostipa semibarbata</i>	0		<2T	0.3
Poaceae	<i>Briza maxima</i>	*		<10%	0.3
Poaceae	<i>Ehrharta calycina</i>	*		<2N	0.3
Poaceae	<i>Rytidosperma occidentale</i>	0		<2T	0.3
Proteaceae	<i>Banksia attenuata</i>	0		30-10%	15
Proteaceae	<i>Banksia ilicifolia</i>	0		30-10%	15
Proteaceae	<i>Petrophile linearis</i>	0		<2T	0.3
Restionaceae	<i>Desmocladus fascicularis</i>	0		<2N	0.3
Restionaceae	<i>Hypolaena exsulca</i>	0		<2T	0.2
Stylidiaceae	<i>Styliodium brunonianum</i>	0		<2T	0.3
Xanthorrhoeaceae	<i>Xanthorrhoea brunonis</i>	0		<2T	0.3

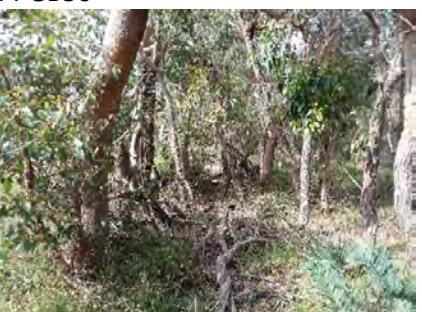
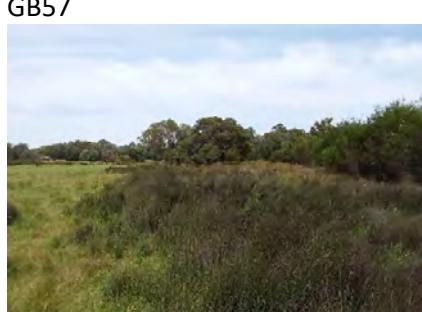
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## 2 PHOTOGRAPHIC REFERENCE POINTS

Site Assessments on 30/10/2018, 31/10/2018 and 1/11/2018		
PPGB01 	PPGB02 	PPGB03 
PPGB04 	PPGB05 	PPGB06 
PPGB07 	PPGB08 	PPGB09 
PPGB10 	PPGB11 	PPGB12 

PPGB13	PPGB14	PPGB15
		
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PPGB29	PPGB29	PPGB30

		
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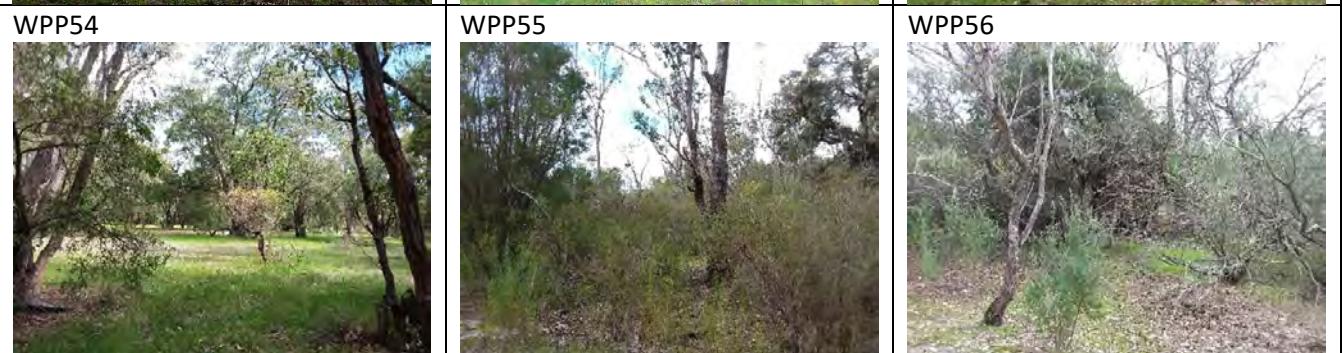
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PP53 	GB54 	GB55 
GB56 	GB57 	GB58 
GB59 	GB60 	GB61 

GB62	GB63	GB64
		
GB65	GB66	GB67
		
GB68	GB69	GB70
		
GB71	GB72	GB73
		
GB74	GB75	GB76
		

GB77 	GB78 	GB79 
GB80 	GB81 	GB83 
GB84 	GB85 	GB86 
GB87 	PPGB88 	GB89 
GB90 	GB91 	GB92 



Site Assessments August 2018



<p>WPP57</p> 	<p>WPP58</p> 	<p>WPP59</p> 
<p>WPP60</p> 	<p>WPP61</p> 	<p>WPP62</p> 
<p>WPP63</p> 	<p>WPP64</p> 	<p>WPP65</p> 

## APPENDIX E

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# Flora Data

## Combined species list for BORR South

Family	Genus	Species	Status	BORR IPT 2018	GHD 2015	GHD 2014	Biota 2016	Biota 2018
Alismataceae	<i>Alisma</i>	<i>lanceolatum</i>	*	X				
Amaranthaceae	<i>Ptilotus</i>	<i>sericostachyus</i>		X				
Anarthriaceae	<i>Anarthria</i>	<i>prolifera</i>				X		
Anarthriaceae	<i>Lyginia</i>	<i>barbata</i>		X				
Anarthriaceae	<i>Lyginia</i>	<i>imberbis</i>		X	X	X		
Anthericaceae	<i>Agrostocrinum</i>	sp.			X			
Apiaceae	<i>Centella</i>	<i>asiatica</i>		X				
Apiaceae	<i>Daucus</i>	<i>glochidiatus</i>		X				
Apiaceae	<i>Eryngium</i>	<i>pinnatifidum</i>		X				
Apiaceae	<i>Platysace</i>	<i>filiformis</i>				X		
Apiaceae	<i>Xanthosia</i>	<i>huegelii</i>		X			X	X
Apocynaceae	<i>Alyxia</i>	<i>buxifolia</i>		X		X		
Araceae	<i>Lemna</i>	<i>disperma</i>		X				
Araceae	<i>Zantedeschia</i>	<i>aethiopica</i>	*DP/WoNS	X	X	X	X	X
Araliaceae	<i>Hydrocotyle</i>	sp.			X			
Araliaceae	<i>Trachymene</i>	<i>pilosa</i>		X	X		X	X
Asparagaceae	<i>Acanthocarpus</i>	<i>preissii</i>		X				
Asparagaceae	<i>Asparagus</i>	<i>asparagooides</i>	*DP/WoNS	X	X	X	X	
Asparagaceae	<i>Dichopogon</i>	<i>capillipes</i>		X				
Asparagaceae	<i>Lomandra</i>	? <i>preissii</i>			X			
Asparagaceae	<i>Lomandra</i>	<i>caespitosa</i>		X				X
Asparagaceae	<i>Lomandra</i>	<i>hermaphrodita</i>		X				X
Asparagaceae	<i>Lomandra</i>	<i>integra</i>						X
Asparagaceae	<i>Lomandra</i>	<i>micrantha</i> subsp. <i>micrantha</i>			X	X		
Asparagaceae	<i>Lomandra</i>	<i>nigricans</i>			X	X		X
Asparagaceae	<i>Lomandra</i>	<i>odora</i>		X				
Asparagaceae	<i>Lomandra</i>	<i>preissii</i>			X			
Asparagaceae	<i>Lomandra</i>	<i>purpurea</i>		X				
Asparagaceae	<i>Lomandra</i>	<i>sericea</i>						X
Asparagaceae	<i>Lomandra</i>	sp.		X	X			
Asparagaceae	<i>Sowerbaea</i>	<i>laxiflora</i>		X	X		X	X
Asparagaceae	<i>Thysanotus</i>	? <i>manglesianus</i>		X	X			
Asparagaceae	<i>Thysanotus</i>	<i>arbuscula</i>						X
Asparagaceae	<i>Thysanotus</i>	<i>arenarius</i>				X		
Asparagaceae	<i>Thysanotus</i>	<i>multiflorus</i>		X				X
Asparagaceae	<i>Thysanotus</i>	<i>patersonii</i>					X	X
Asphodelaceae	<i>Trachyandra</i>	<i>divaricata</i>	*	X				
Asteraceae	<i>Arctotheca</i>	<i>calendula</i>	*	X	X	X	X	
Asteraceae	<i>Asteridea</i>	<i>pulverulenta</i>		X			X	X
Asteraceae	<i>Conyza</i>	<i>bonariensis</i>	*	X	X			
Asteraceae	<i>Conyza</i>	sp.	*	X			X	

<b>Family</b>	<b>Genus</b>	<b>Species</b>	<b>Status</b>	<b>BORR IPT 2018</b>	GHD 2015	GHD 2014	Biota 2016	Biota 2018
Asteraceae	<i>Cotula</i>	<i>bipinnata</i>	*	X				
Asteraceae	<i>Cotula</i>	<i>coronopifolia</i>	*	X	X			
Asteraceae	<i>Cotula</i>	<i>turbinata</i>	*	X	X		X	
Asteraceae	<i>Craspedia</i>	<i>variabilis</i>		X	X			X
Asteraceae	<i>Hyalosperma</i>	<i>cotula</i>		X	X			
Asteraceae	<i>Hypochaeris</i>	<i>? glabra</i>	*		X			
Asteraceae	<i>Hypochaeris</i>	<i>glabra</i>	*	X	X	X	X	X
Asteraceae	<i>Hypochaeris</i>	<i>radicata</i>	*	X			X	
Asteraceae	<i>Hypochaeris</i>	sp.	*		X	X		
Asteraceae	<i>Lagenophora</i>	<i>huegelii</i>		X	X		X	X
Asteraceae	<i>Olearia</i>	<i>axillaris</i>			X			
Asteraceae	<i>Podolepis</i>	<i>gracilis</i>						X
Asteraceae	<i>Rhodanthe</i>	<i>citrina</i>		X				
Asteraceae	<i>Siloxerus</i>	<i>humifusus</i>		X				
Asteraceae	<i>Sonchus</i>	<i>asper</i>	*		X			
Asteraceae	<i>Sonchus</i>	<i>oleraceus</i>	*	X			X	X
Asteraceae	<i>Sonchus</i>	sp.		X				
Asteraceae	sp.				X			
Asteraceae	<i>Taraxacum</i>	<i>officinale</i>	*		X			
Asteraceae	<i>Trichocline</i>	<i>spathulata</i>						X
Asteraceae	<i>Ursinia</i>	<i>anthemoides</i>	*	X	X	X	X	X
Asteraceae	<i>Waitzia</i>	<i>suaveolens</i> var. <i>suaveolens</i>		X				X
Brassicaceae	<i>Raphanus</i>	<i>raphanistrum</i>	*	X				
Campanulaceae	<i>Hybanthus</i>	<i>calycinus</i>		X				
Campanulaceae	<i>Lobelia</i>	<i>anceps</i>				X		
Campanulaceae	<i>Lobelia</i>	<i>heterophylla</i>		X				
Campanulaceae	<i>Lobelia</i>	<i>tenuior</i>						X
Campanulaceae	<i>Wahlenbergia</i>	<i>capensis</i>	*	X				
Caryophyllaceae	<i>Cerastium</i>	<i>glomeratum</i>	*	X				
Caryophyllaceae	<i>Petrorhagia</i>	<i>dubia</i>	*	X	X			X
Caryophyllaceae	<i>Spergula</i>	<i>arvensis</i>	*	X				
Caryophyllaceae	<i>Stellaria</i>	<i>media</i>	*	X				
Casuarinaceae	<i>Allocasuarina</i>	<i>? humilis</i>			X			
Casuarinaceae	<i>Allocasuarina</i>	<i>humilis</i>		X				
Casuarinaceae	<i>Allocasuarina</i>	sp.			X			
Casuarinaceae	<i>Casuarina</i>	<i>obesa</i>		X				
Celastraceae	<i>Tripterooccus</i>	<i>brunonis</i>		X			X	
Centrolepidaceae	<i>Aphelia</i>	<i>cyperoides</i>		X				
Centrolepidaceae	<i>Centrolepis</i>	<i>aristata</i>		X				
Centrolepidaceae	<i>Centrolepis</i>	<i>polygyna</i>		X				
Chenopodiaceae	<i>Atriplex</i>	<i>prostrata</i>	*		X			
Colchicaceae	<i>Burchardia</i>	<i>congesta</i>		X	X	X	X	X
Colchicaceae	<i>Burchardia</i>	<i>multiflora</i>					X	

Family	Genus	Species	Status	BORR IPT 2018	GHD 2015	GHD 2014	Biota 2016	Biota 2018
Colchicaceae	<i>Wurmbea</i>	<i>monantha</i>			X			
Crassulaceae	<i>Crassula</i>	? <i>glomerata</i>			X			
Crassulaceae	<i>Crassula</i>	<i>colorata</i> var. <i>colorata</i>		X	X			
Crassulaceae	<i>Crassula</i>	<i>decumbens</i>		X				
Crassulaceae	<i>Crassula</i>	<i>natans</i>		X				
Crassulaceae	<i>Crassula</i>	<i>natans</i> var. <i>minus</i>	*	X				
Cyperaceae	? <i>Caustis</i>	<i>dioica</i>			X			
Cyperaceae	<i>Baumea</i>	<i>articulata</i>		X				
Cyperaceae	<i>Baumea</i>	<i>junccea</i>		X				
Cyperaceae	<i>Baumea</i>	<i>vaginalis</i>		X				
Cyperaceae	<i>Carex</i>	<i>divisa</i>	*	X				
Cyperaceae	<i>Chorizandra</i>	<i>enodis</i>		X				
Cyperaceae	<i>Cyathochaeta</i>	<i>avenacea</i>		X			X	
Cyperaceae	<i>Cyperus</i>	<i>congestus</i>		X				
Cyperaceae	<i>Cyperus</i>	<i>eragrostis</i>	*	X				
Cyperaceae	<i>Cyperus</i>	<i>tenellus</i>	*	X			X	
Cyperaceae	<i>Ficinia</i>	<i>nodosa</i>		X			X	
Cyperaceae	<i>Isolepis</i>	? <i>cernua</i>			X			
Cyperaceae	<i>Isolepis</i>	<i>cernua</i> var. <i>setiformis</i>		X				
Cyperaceae	<i>Isolepis</i>	<i>marginata</i>	*	X	X			
Cyperaceae	<i>Lepidosperma</i>	? <i>longitudinale</i>			X			
Cyperaceae	<i>Lepidosperma</i>	? <i>pubisquamum</i>			X			
Cyperaceae	<i>Lepidosperma</i>	<i>gladiatum</i>			X			
Cyperaceae	<i>Lepidosperma</i>	<i>longitudinale</i>		X	X	X	X	
Cyperaceae	<i>Lepidosperma</i>	<i>pubisquamum</i>		X	X	X		X
Cyperaceae	<i>Lepidosperma</i>	sp.		X	X			
Cyperaceae	<i>Lepidosperma</i>	<i>squamatum</i>			X	X	X	
Cyperaceae	<i>Mesomelaena</i>	<i>stygia</i>		X				
Cyperaceae	<i>Mesomelaena</i>	<i>tetragona</i>		X	X			
Cyperaceae	<i>Schoenus</i>	<i>curvifolius</i>		X				
Cyperaceae	<i>Schoenus</i>	<i>grandiflorus</i>		X	X			X
Cyperaceae	<i>Tetraria</i>	<i>octandra</i>		X			X	X
Dasypogonaceae	<i>Calectasia</i>	<i>narragara</i>		X				
Dasypogonaceae	<i>Dasypogon</i>	<i>bromeliifolius</i>		X	X	X	X	X
Dennstaedtiaceae	<i>Pteridium</i>	<i>esculentum</i> subsp. <i>esculentum</i>		X		X		
Dilleniaceae	<i>Hibbertia</i>	<i>cuneiformis</i>		X	X			X
Dilleniaceae	<i>Hibbertia</i>	<i>hypericoides</i> subsp. <i>hypericoides</i>		X	X	X	X	X
Dilleniaceae	<i>Hibbertia</i>	<i>racemosa</i>		X	X	X	X	X
Dilleniaceae	<i>Hibbertia</i>	<i>vaginata</i>		X		X		X
Droseraceae	<i>Drosera</i>	? <i>erythrorhiza</i>			X			X
Droseraceae	<i>Drosera</i>	? <i>pallida</i>						X

<b>Family</b>	<b>Genus</b>	<b>Species</b>	<b>Status</b>	<b>BORR IPT 2018</b>	GHD 2015	GHD 2014	Biota 2016	Biota 2018
Droseraceae	<i>Drosera</i>	? <i>porrecta</i>			X			
Droseraceae	<i>Drosera</i>	? <i>stolonifera</i>						X
Droseraceae	<i>Drosera</i>	<i>erythrorhiza</i>		X	X	X		
Droseraceae	<i>Drosera</i>	<i>glanduligera</i>		X		X		
Droseraceae	<i>Drosera</i>	<i>menziesii</i>		X				
Droseraceae	<i>Drosera</i>	<i>pallida</i>		X	X			
Droseraceae	<i>Drosera</i>	sp.			X	X		
Droseraceae	<i>Drosera</i>	<i>stolonifera</i>		X				
Droseraceae	<i>Drosera</i>	sp. climbing (nf)		X				
Elaeocarpaceae	<i>Platytheca</i>	<i>galoides</i>						X
Elaeocarpaceae	<i>Tetratheca</i>	<i>hirsuta</i>			X			
Ericaceae	<i>Astroloba</i>	<i>pallidum</i>		X				X
Ericaceae	<i>Conostephium</i>	<i>pendulum</i>				X		
Ericaceae	<i>Leucopogon</i>	? <i>conostephioides</i> s. lat			X			
Ericaceae	<i>Leucopogon</i>	<i>propinquus</i>		X	X	X	X	X
Ericaceae	<i>Leucopogon</i>	sp.			X			
Ericaceae	<i>Petrophile</i>	<i>linearis</i>		X				X
Ericaceae	<i>Styphelia</i>	<i>tenuiflora</i>				X		
Euphorbiaceae	<i>Euphorbia</i>	<i>peplus</i>	*	X				X
Euphorbiaceae	<i>Ricinus</i>	<i>communis</i>	*	X				
Fabaceae	? <i>Daviesia</i>	<i>divaricata</i>			X			
Fabaceae	<i>Acacia</i>	<i>applanata</i>		X				
Fabaceae	<i>Acacia</i>	<i>baileyana</i>	*		X	X		
Fabaceae	<i>Acacia</i>	<i>cochlearis</i>		X				
Fabaceae	<i>Acacia</i>	<i>cyclops</i>			X			
Fabaceae	<i>Acacia</i>	<i>extensa</i>		X	X	X		
Fabaceae	<i>Acacia</i>	<i>huegelii</i>		X			X	
Fabaceae	<i>Acacia</i>	<i>incurva</i>			X			
Fabaceae	<i>Acacia</i>	<i>iteaphylla</i>	*	X	X	X		
Fabaceae	<i>Acacia</i>	<i>longifolia</i>	*	X		X		X
Fabaceae	<i>Acacia</i>	<i>podalyriifolia</i>	*	X		X		
Fabaceae	<i>Acacia</i>	<i>pulchella</i>			X	X	X	
Fabaceae	<i>Acacia</i>	<i>pulchella</i> var. <i>glaberrima</i>		X				
Fabaceae	<i>Acacia</i>	<i>pulchella</i> var. <i>pulchella</i>		X				X
Fabaceae	<i>Acacia</i>	<i>saligna</i>		X	X			
Fabaceae	<i>Acacia</i>	<i>semitrullata</i>	P4		X	X		
Fabaceae	<i>Acacia</i>	<i>stenoptera</i>		X				X
Fabaceae	<i>Aotus</i>	<i>gracillima</i>		X		X		
Fabaceae	<i>Aotus</i>	<i>intermedia</i>				X		
Fabaceae	<i>Bossiaea</i>	? <i>eriocarpa</i>			X			
Fabaceae	<i>Bossiaea</i>	<i>eriocarpa</i>		X	X	X		X
Fabaceae	<i>Chamaecytisus</i>	<i>palmensis</i>	*	X	X			

<b>Family</b>	<b>Genus</b>	<b>Species</b>	<b>Status</b>	<b>BORR IPT 2018</b>	<b>GHD 2015</b>	<b>GHD 2014</b>	<b>Biota 2016</b>	<b>Biota 2018</b>
Fabaceae	<i>Chorizema</i>	<i>retrosum</i>				X		
Fabaceae	<i>Daviesia</i>	? <i>divaricata</i>			X			
Fabaceae	<i>Daviesia</i>	<i>decurrans</i>			X			
Fabaceae	<i>Daviesia</i>	<i>divaricata</i> subsp. <i>divaricata</i>		X	X	X	X	
Fabaceae	<i>Daviesia</i>	<i>incrassata</i>				X		
Fabaceae	<i>Daviesia</i>	<i>physodes</i>		X	X			
Fabaceae	<i>Daviesia</i>	sp.			X			
Fabaceae	<i>Euchiloglottis</i>	<i>linearis</i>				X		X
Fabaceae	<i>Gastrolobium</i>	<i>capitatum</i>			X			
Fabaceae	<i>Gompholobium</i>	<i>polymorphum</i>		X				X
Fabaceae	<i>Gompholobium</i>	<i>tomentosum</i>		X		X	X	X
Fabaceae	<i>Hardenbergia</i>	<i>comptoniana</i>		X	X	X	X	X
Fabaceae	<i>Hovea</i>	<i>trisperma</i>		X			X	X
Fabaceae	<i>Jacksonia</i>	<i>furcellata</i>		X	X	X		
Fabaceae	<i>Jacksonia</i>	<i>horrida</i>		X				
Fabaceae	<i>Jacksonia</i>	<i>sternbergiana</i>						X
Fabaceae	<i>Kennedia</i>	<i>prostrata</i>		X	X	X	X	X
Fabaceae	<i>Kennedia</i>	sp.				X		
Fabaceae	<i>Lotus</i>	<i>angustissimus</i>	*	X	X			
Fabaceae	<i>Lotus</i>	<i>subbiflorus</i>	*	X			X	X
Fabaceae	<i>Lupinus</i>	<i>angustifolius</i>	*	X	X			
Fabaceae	<i>Lupinus</i>	<i>cosentinii</i>	*		X			
Fabaceae	<i>Ornithopus</i>	<i>compressus</i>	*	X	X			X
Fabaceae	<i>Ornithopus</i>	<i>sativus</i>	*	X				
Fabaceae	<i>Trifolium</i>	<i>arvense</i> var. <i>arvense</i>	*	X				
Fabaceae	<i>Trifolium</i>	<i>campestre</i>	*	X				X
Fabaceae	<i>Trifolium</i>	<i>repens</i>	*	X				X
Fabaceae	<i>Trifolium</i>	sp.	*	X	X			
Fabaceae	<i>Trifolium</i>	<i>subterraneum</i>	*		X			X
Fabaceae	<i>Vicia</i>	<i>sativa</i>	*	X			X	
Fabaceae	<i>Vicia</i>	sp.	*		X			
Fabaceae	<i>Viminaria</i>	<i>junccea</i>		X	X		X	
Geraniaceae	<i>Erodium</i>	<i>botrys</i>	*		X			
Geraniaceae	<i>Geranium</i>	<i>molle</i>	*	X				
Goodeniaceae	<i>Dampiera</i>	<i>lindleyi</i>			X			
Goodeniaceae	<i>Dampiera</i>	<i>linearis</i>		X		X		
Goodeniaceae	<i>Scaevola</i>	<i>calliptera</i>		X				X
Haemodoraceae	<i>Anigozanthos</i>	<i>manglesii</i>		X	X			
Haemodoraceae	<i>Conostylis</i>	<i>aculeata</i>			X	X		
Haemodoraceae	<i>Conostylis</i>	<i>aculeata</i> ? subsp. <i>preissii</i>		X				
Haemodoraceae	<i>Conostylis</i>	<i>aculeata</i> subsp. <i>gracilis</i>			X		X	X

<b>Family</b>	<b>Genus</b>	<b>Species</b>	<b>Status</b>	<b>BORR IPT 2018</b>	GHD 2015	GHD 2014	Biota 2016	Biota 2018
Haemodoraceae	<i>Conostylis</i>	<i>aculeata</i> subsp. <i>preissii</i>		X	X		X	
Haemodoraceae	<i>Conostylis</i>	<i>junccea</i>		X				
Haemodoraceae	<i>Conostylis</i>	sp.		X				
Haemodoraceae	<i>Haemodorum</i>	sp.			X			X
Haemodoraceae	<i>Haemodorum</i>	<i>spicatum</i>		X	X	X		
Haemodoraceae	<i>Phlebocarya</i>	<i>ciliata</i>		X	X			X
Haemodoraceae	sp.				X			
Hemerocallidaceae	<i>Agrostocrinum</i>	<i>hirsutum</i>						X
Hemerocallidaceae	<i>Agrostocrinum</i>	<i>scabrum</i>		X				
Hemerocallidaceae	<i>Caesia</i>	<i>micrantha</i>			X		X	X
Hemerocallidaceae	<i>Dianella</i>	<i>revoluta</i>		X		X		X
Hemerocallidaceae	<i>Stypandra</i>	<i>glauca</i>		X	X			
Hemerocallidaceae	<i>Tricoryne</i>	<i>elatior</i>		X	X			X
Iridaceae	<i>Freesia</i>	<i>alba</i> x <i>leichlinii</i>	*	X	X			
Iridaceae	<i>Gladiolus</i>	<i>caryophyllaceus</i>	*	X				
Iridaceae	<i>Ixia</i>	sp.	*	X				X
Iridaceae	<i>Moraea</i>	<i>flaccida</i>	* DP	X	X		X	
Iridaceae	<i>Orthrosanthus</i>	<i>laxus</i> var. <i>laxus</i>		X	X		X	X
Iridaceae	<i>Patersonia</i>	<i>occidentalis</i>		X	X		X	X
Iridaceae	<i>Patersonia</i>	sp.				X		
Iridaceae	<i>Romulea</i>	<i>rosea</i>	*	X	X	X	X	
Iridaceae	<i>Sparaxis</i>	<i>bulbifera</i>	*	X				
Iridaceae	<i>Watsonia</i>	<i>meriana</i> var. <i>bulbifera</i>	*	X				
Juncaceae	<i>Juncus</i>	<i>articulatus</i>	*	X			X	
Juncaceae	<i>Juncus</i>	<i>biflorus</i>	*					X
Juncaceae	<i>Juncus</i>	<i>kraussii</i>			X			
Juncaceae	<i>Juncus</i>	<i>microcephalus</i>	*				X	
Juncaceae	<i>Juncus</i>	<i>pallidus</i>			X	X	X	
Juncaceae	<i>Juncus</i>	sp.						X
Juncaceae	<i>Juncus</i>	<i>subsecundus</i>				X		
Juncaceae	<i>Luzula</i>	<i>meridionalis</i>			X			
Juncaginaceae	<i>Cynogeton</i>	<i>lineare</i>			X			
Lamiaceae	<i>Hemiandra</i>	<i>pungens</i>				X		X
Lamiaceae	<i>Mentha</i>	<i>pulegium</i>	*		X			
Lauraceae	<i>Cassytha</i>	<i>glabella</i>						X
Lauraceae	<i>Cassytha</i>	sp.			X	X	X	
Loganiaceae	<i>Orianthera</i>	<i>serpyllifolia</i> subsp. <i>angustifolia</i>				X		
Loranthaceae	<i>Nuytsia</i>	<i>floribunda</i>		X	X	X	X	X
Menyanthaceae	<i>Liparophyllum</i>	? <i>latifolium</i>		X				
Menyanthaceae	<i>Ornduffia</i>	<i>albiflora</i>				X		
Myrtaceae	<i>Agonis</i>	<i>flexuosa</i>		X	X	X	X	X
Myrtaceae	<i>Astartea</i>	? <i>scoparia</i>				X		

Family	Genus	Species	Status	BORR IPT 2018	GHD 2015	GHD 2014	Biota 2016	Biota 2018
Myrtaceae	Astartea	<i>scoparia</i>		X	X			X
Myrtaceae	Callistemon	<i>phoeniceus</i>	# planted	X	X			
Myrtaceae	Calothamnus	<i>quadrifidus</i>	# planted		X			
Myrtaceae	Chamelaucium	<i>uncinatum</i>	# planted	X				
Myrtaceae	Corymbia	<i>calophylla</i>		X	X	X	X	X
Myrtaceae	Eucalyptus	<i>globulus</i>	# planted		X			
Myrtaceae	Eucalyptus	<i>gomphocephala</i>		X	X			X
Myrtaceae	Eucalyptus	<i>marginata</i> subsp. <i>marginata</i>		X	X	X	X	X
Myrtaceae	Eucalyptus	<i>rudis</i>		X	X	X		X
Myrtaceae	Eucalyptus	sp.			X			
Myrtaceae	Hypocalymma	<i>robustum</i>		X	X		X	X
Myrtaceae	Hypocalymma	sp.			X			
Myrtaceae	Kunzea	<i>glabrescens</i>		X	X	X	X	X
Myrtaceae	Kunzea	<i>micrantha</i> subsp. <i>micrantha</i>			X			X
Myrtaceae	Melaleuca	? <i>huegelii</i>			X			
Myrtaceae	Melaleuca	? <i>lateritia</i>			X			
Myrtaceae	Melaleuca	<i>lanceolata</i>	# planted	X				
Myrtaceae	Melaleuca	<i>nesophila</i>	# planted	X				X
Myrtaceae	Melaleuca	<i>preissiana</i>		X	X	X		X
Myrtaceae	Melaleuca	<i>rhaphiophylla</i>		X	X			X
Myrtaceae	Melaleuca	sp.			X			
Myrtaceae	Melaleuca	<i>teretifolia</i>			X	X		
Myrtaceae	Melaleuca	<i>thymoides</i>		X	X	X	X	X
Myrtaceae	Melaleuca	<i>viminea</i>		X	X			
Myrtaceae	Melaleuca	<i>viminea</i> subsp. <i>Viminea</i>						X
Myrtaceae	Pericalymma	<i>ellipticum</i>			X			
Myrtaceae	sp.				X			
Oleaceae	Olea	<i>europaea</i>	*		X	X		
Orchidaceae	Caladenia	<i>attingens</i> subsp. <i>attingens</i>		X				
Orchidaceae	Caladenia	<i>flava</i> subsp. <i>flava</i>		X	X			X
Orchidaceae	Caladenia	<i>hirta</i> subsp. <i>hirta</i>			X			
Orchidaceae	Caladenia	<i>latifolia</i>		X	X			
Orchidaceae	Caladenia	sp. (leaf only)		X				
Orchidaceae	Caladenia	<i>speciosa</i>	P4		X			
Orchidaceae	Cryptostylis	<i>ovata</i>		X		X		X
Orchidaceae	Cyrtostylis	<i>huegelii</i>		X				
Orchidaceae	Disa	<i>bracteata</i>	*	X	X		X	
Orchidaceae	Diuris	? <i>longifolia</i>			X			
Orchidaceae	Diuris	<i>corymbosa</i>			X			
Orchidaceae	Elythranthera	<i>brunonis</i>		X				
Orchidaceae	Eriochilus	<i>dilatatus</i> (leaf only)		X				

<b>Family</b>	<b>Genus</b>	<b>Species</b>	<b>Status</b>	<b>BORR IPT 2018</b>	GHD 2015	GHD 2014	Biota 2016	Biota 2018
Orchidaceae	<i>Hyperanthus</i>	<i>serratus</i>		X				
Orchidaceae	<i>Microtis</i>	<i>media</i> subsp. <i>media</i>		X			X	X
Orchidaceae	<i>Microtis</i>	sp. nf tall (45 cm)		X				
Orchidaceae	<i>Pterostylis</i>	? <i>recurva</i>			X			
Orchidaceae	<i>Pterostylis</i>	<i>aspera</i>			X			
Orchidaceae	<i>Pterostylis</i>	<i>sanguinea</i>				X		
Orchidaceae	<i>Pterostylis</i>	sp.		X	X	X		
Orchidaceae	<i>Pterostylis</i>	<i>vittata</i>		X	X	X		X
Orchidaceae	<i>Pyrorchis</i>	<i>nigricans</i>		X	X	X	X	X
Orchidaceae	sp.					X		
Orchidaceae	<i>Thelymitra</i>	<i>benthamiana</i>		X				X
Orchidaceae	<i>Thelymitra</i>	<i>graminea</i>		X			X	
Orchidaceae	<i>Thelymitra</i>	<i>macrophylla</i>		X				
Orchidaceae	<i>Thelymitra</i>	<i>paludosa</i>						X
Orobanchaceae	<i>Orobanche</i>	<i>minor</i>	*	X	X	X	X	X
Oxalidaceae	<i>Oxalis</i>	<i>pes-caprae</i>	*	X	X	X		
Oxalidaceae	<i>Oxalis</i>	<i>purpurea</i>	*		X			
Oxalidaceae	<i>Oxalis</i>	sp.			X	X	X	X
Papaveraceae	<i>Fumaria</i>	<i>capreolata</i>	*	X			X	
Phyllanthaceae	<i>Poranthera</i>	<i>microcephala</i>		X				
Phytolaccaceae	<i>Phyllanthus</i>	<i>calycinus</i>		X	X			X
Phytolaccaceae	<i>Phytolacca</i>	<i>octandra</i>	*	X				
Pittosporaceae	<i>Billardiera</i>	<i>variifolia</i>		X			X	X
Plantaginaceae	<i>Callitriches</i>	<i>stagnalis</i>	*	X	X			
Plantaginaceae	<i>Plantago</i>	<i>lanceolata</i>	*	X				
Poaceae	<i>Anthoxanthum</i>	<i>odoratum</i>	*	X			X	
Poaceae	<i>Austrostipa</i>	<i>campylachne</i>		X				
Poaceae	<i>Austrostipa</i>	<i>flavescens</i>			X			
Poaceae	<i>Avena</i>	<i>barbata</i>	*	X			X	X
Poaceae	<i>Avena</i>	<i>fatua</i>	*	X				
Poaceae	<i>Briza</i>	<i>maxima</i>	*	X	X	X	X	X
Poaceae	<i>Briza</i>	<i>minor</i>	*	X			X	
Poaceae	<i>Bromus</i>	<i>diandrus</i>	*	X		X	X	X
Poaceae	<i>Bromus</i>	<i>hordeaceus</i>	*				X	
Poaceae	<i>Cenchrus</i>	<i>clandestinus</i>	*	X	X			
Poaceae	<i>Cenchrus</i>	<i>longisetus</i>	*			X		
Poaceae	<i>Cynodon</i>	<i>dactylon</i>	*	X		X	X	
Poaceae	<i>Ehrharta</i>	<i>calycina</i>	*	X	X	X	X	X
Poaceae	<i>Ehrharta</i>	<i>longiflora</i>	*	X	X	X	X	
Poaceae	<i>Ehrharta</i>	sp.	*		X			
Poaceae	<i>Eragrostis</i>	<i>curvula</i>	*		X			
Poaceae	<i>Holcus</i>	<i>lanatus</i>	*	X				
Poaceae	<i>Hordeum</i>	<i>leporinum</i>	*	X				

<b>Family</b>	<b>Genus</b>	<b>Species</b>	<b>Status</b>	<b>BORR IPT 2018</b>	GHD 2015	GHD 2014	Biota 2016	Biota 2018
Poaceae	<i>Hordeum</i>	<i>marinum</i>	*				X	
Poaceae	<i>Hordeum</i>	sp.	*		X			
Poaceae	<i>Lagurus</i>	<i>ovatus</i>	*	X				
Poaceae	<i>Lolium</i>	<i>perenne</i>	*				X	
Poaceae	<i>Lolium</i>	<i>rigidum</i>	*	X				
Poaceae	<i>Microlaena</i>	<i>stipoides</i> var. <i>stipoides</i>						X
Poaceae	<i>Paspalum</i>	<i>dilatatum</i>	*		X			
Poaceae	<i>Poa</i>	<i>annua</i>	*	X	X			
Poaceae	<i>Polypogon</i>	<i>monspeliensis</i>	*	X				
Poaceae	<i>Rytidosperma</i>	<i>caespitosum</i>						X
Poaceae	<i>Rytidosperma</i>	<i>occidentale</i>					X	X
Poaceae	sp.				X			
Poaceae	<i>Sporobolus</i>	<i>africanus</i>	*	X				
Poaceae	<i>Vulpia</i>	<i>bromoides</i>	*				X	
Polygonaceae	? <i>Rumex</i>	sp.	*		X			
Polygonaceae	<i>Polygonum</i>	? <i>arenastrum</i>	*	X				
Polygonaceae	<i>Rumex</i>	<i>acetosella</i>	*	X				
Polygonaceae	<i>Rumex</i>	<i>conglomeratus</i>	*	X				
Polygonaceae	<i>Rumex</i>	<i>crispus</i>	*	X				
Polygonaceae	<i>Rumex</i>	sp.	*		X			
Primulaceae	<i>Lysimachia</i>	<i>arvensis</i>	*	X				
Primulaceae	<i>Lysimachia</i>	<i>arvensis</i>	*		X			X
Proteaceae	<i>Adenantheros</i>	<i>meisneri</i>			X			
Proteaceae	<i>Banksia</i>	<i>attenuata</i>		X	X	X	X	X
Proteaceae	<i>Banksia</i>	<i>dallanneyi</i> var. <i>dallanneyi</i>						X
Proteaceae	<i>Banksia</i>	<i>grandis</i>		X	X	X		X
Proteaceae	<i>Banksia</i>	<i>ilicifolia</i>		X	X	X	X	X
Proteaceae	<i>Calothamnus</i>	sp.	# planted	X				
Proteaceae	<i>Hakea</i>	<i>ruscifolia</i>				X		
Proteaceae	<i>Hakea</i>	<i>varia</i>			X		X	
Proteaceae	<i>Persoonia</i>	<i>longifolia</i>		X	X	X		
Proteaceae	<i>Petrophile</i>	? <i>brevifolia</i>			X			
Proteaceae	<i>Petrophile</i>	<i>linearis</i>					X	X
Proteaceae	<i>Petrophile</i>	<i>serruriae</i>				X		
Proteaceae	<i>Stirlingia</i>	<i>latifolia</i>		X	X	X	X	X
Proteaceae	<i>Synaphea</i>	<i>spinulosa</i> subsp. <i>spinulosa</i>		X				
Proteaceae	<i>Xylomelum</i>	<i>occidentale</i>		X	X	X	X	X
Ranunculaceae	<i>Ranunculus</i>	<i>muricatus</i>	*	X				
Restionaceae	<i>Desmocladus</i>	<i>fascicularis</i>		X	X		X	X
Restionaceae	<i>Desmocladus</i>	<i>flexuosa</i>		X				
Restionaceae	<i>Hypolaena</i>	<i>exsulca</i>		X	X	X		
Restionaceae	<i>Leptocarpus</i>	<i>decipiens</i>		X				

Family	Genus	Species	Status	BORR IPT 2018	GHD 2015	GHD 2014	Biota 2016	Biota 2018
Restionaceae	<i>Leptocarpus</i>	<i>kraussii</i>		X				
Restionaceae	<i>Leptocarpus</i>	<i>laxus</i>		X				
Restionaceae	<i>Lepyrodia</i>	<i>glauca</i>		X				
Restionaceae	sp.				X	X		
Rhamnaceae	<i>Spyridium</i>	<i>globulosum</i>		X	X			X
Rubiaceae	<i>Galium</i>	<i>murale</i>	*	X	X		X	
Rubiaceae	<i>Opercularia</i>	<i>apiciflora</i>		X			X	X
Rubiaceae	<i>Opercularia</i>	<i>hispidula</i>		X		X		
Rubiaceae	<i>Opercularia</i>	<i>vaginata</i>		X	X			
Rutaceae	<i>Boronia</i>	<i>spathulata</i>		X				
Rutaceae	<i>Philotheeca</i>	<i>spicata</i>		X	X	X		
Solanaceae	<i>Solanum</i>	<i>nigrum</i>	*	X	X	X		
Styliadiaceae	<i>Levenhookia</i>	<i>pusilla</i>		X				
Styliadiaceae	<i>Styliodium</i>	? <i>repens</i>				X		
Styliadiaceae	<i>Styliodium</i>	<i>araeophyllum</i>						X
Styliadiaceae	<i>Styliodium</i>	<i>brunonianum</i>		X			X	
Styliadiaceae	<i>Styliodium</i>	<i>calcaratum</i>		X				X
Styliadiaceae	<i>Styliodium</i>	<i>ciliatum</i>		X				
Styliadiaceae	<i>Styliodium</i>	<i>repens</i>					X	
Styliadiaceae	<i>Styliodium</i>	<i>schoenoides</i>		X			X	
Thymelaeaceae	<i>Pimelea</i>	? <i>rosea</i> subsp. <i>rosea</i>			X			
Thymelaeaceae	<i>Pimelea</i>	<i>rosea</i> subsp. <i>rosea</i>		X				
Typhaceae	<i>Typha</i>	<i>orientalis</i>				X		
Typhaceae	<i>Typha</i>	<i>orientalis</i>		X				
Verbenaceae	<i>Lantana</i>	<i>camara</i>	DP *	X				
Violaceae	<i>Hybanthus</i>	<i>calycinus</i>			X			X
Violaceae	<i>Hybanthus</i>	<i>floribundus</i>			X			
Xanthorrhoeaceae	<i>Chamaescilla</i>	<i>corymbosa</i>		X				
Xanthorrhoeaceae	<i>Xanthorrhoea</i>	<i>brunonis</i>		X	X	X	X	X
Xanthorrhoeaceae	<i>Xanthorrhoea</i>	<i>gracilis</i>		X				
Xanthorrhoeaceae	<i>Xanthorrhoea</i>	<i>preissii</i>			X			
Zamiaceae	<i>Macrozamia</i>	<i>riedlei</i>		X	X	X	X	X

\* Denotes introduced species

### Priory Flora locations (PCG)

Taxon	Status	Easting	Northing
<i>Acacia semitrullata</i>	P4	35420	101317
<i>Acacia semitrullata</i> (MGA50)	P4	375371	6301889
<i>Acacia semitrullata</i> (MGA50)	P4	375767	6301944
<i>Acacia semitrullata</i> (MGA50)	P4	375872	6301877
<i>Acacia semitrullata</i> (MGA50)	P4	375872	6301858
<i>Caladenia speciosa</i>	P4	31440	99048
<i>Caladenia speciosa</i>	P4	32060	99458
<i>Caladenia speciosa</i>	P4	32293	99511
<i>Caladenia speciosa</i>	P4	32162	99510
<i>Caladenia speciosa</i>	P4	32488	99535
<i>Caladenia speciosa</i>	P4	32502	99559
<i>Caladenia speciosa</i>	P4	32523	99558
<i>Caladenia speciosa</i>	P4	32545	99582
<i>Caladenia speciosa</i>	P4	32560	99588
<i>Caladenia speciosa</i>	P4	32581	99545
<i>Caladenia speciosa</i>	P4	32543	99567
<i>Caladenia speciosa</i>	P4	32501	99559
<i>Caladenia speciosa</i>	P4	34200	100374
<i>Caladenia speciosa</i>	P4	31474	99269

### Declared Weed locations (PCG)

Taxon	Easting	Northing
<i>Zantedeschia aethiopica</i>	35945.8417	103535.5991
<i>Zantedeschia aethiopica</i>	36131.7239	103680.8176
<i>Zantedeschia aethiopica</i>	36438.5306	103774.0649
<i>Moraea flaccida</i>	36438.5306	103774.0649
<i>Zantedeschia aethiopica</i>	35223.095	104264.2506
<i>Zantedeschia aethiopica</i>	35323.122	104370.791
<i>Zantedeschia aethiopica</i>	36131.6416	103504.3384
<i>Moraea flaccida</i>	36155.8708	103524.1302
<i>Zantedeschia aethiopica</i>	35214.0509	103465.0103
<i>Zantedeschia aethiopica</i>	35724.7057	103120.6743
<i>Leptospermum laevigatum</i>	32259.822	99468.4197
<i>Zantedeschia aethiopica</i>	31845.5941	99276.3679
<i>Asparagus asparagoides</i>	35315.8569	101656.1596
<i>Lantana camara</i>	32985.12784	102204.6898
<i>Zantedeschia aethiopica</i>	31607.279	99054.08438
<i>Zantedeschia aethiopica</i>	31521.28924	99000.63844
<i>Asparagus asparagoides</i>	31845.5941	99276.3679
<i>Zantedeschia aethiopica</i>	32107.2985	99559.309
<i>Moraea flaccida</i>	32107.2985	99559.309
<i>Moraea flaccida</i>	36131.7239	103680.8176