Crown Reserve 42507 Denmark-Nornalup Heritage Rail Trail

Reconnaissance flora and vegetation and targeted fauna survey report





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1. Introduction, scope and background information

Shire of Denmark ("the client") commissioned Bio Diverse Solutions as Environmental Consultants to undertake a Spring season flora and vegetation assessment and targeted fauna assessment of the proposed new Denmark-Nornalup Heritage Rail Trail bridge located in Crown Reserve 42507, west of Denmark. The scope of works included:

- Desktop assessment of the subject area, including all publicly available database searches for threatened flora, vegetation communities and threatened fauna data;
- A Spring reconnaissance (including targeted threatened) flora and vegetation survey across subject site to identify
 any possible populations of conservation significant flora as per Schedule 1, Item 2 of the DWER Decision Letter;
- Seven species Priority listed flora could possibly be present at the site and are listed in the Decision Letter as follows:
 - Andersonia sp. Virolens (G.J. Keighery 12000) (P3);
 - Anthocercis sylvicola (P3);
 - Banksia serra (P4);
 - Eucalyptus virginea (P4);
 - Gahnia sclerioides (P4);
 - o Melaleuca viminalis (P2); and
 - Tetraria sp. Blackwood River (A.R. Annels 3043) (P3).
- Identification of flora species, including herbarium identification if required;
- Targeted Black cockatoo habitat assessment survey (trees suitable for breeding), and habitat assessment survey
 for south-western brush-tailed phascogale (wambenger) and western ringtail possum (suitable habitat trees) across
 the subject site. The survey was required to identify all trees that have a diameter, measured at 1.5 metres from the
 base of the tree, of 50 centimetres or greater that contain hollow(s) as per Schedule 1, Item 1 of the DWER Decision
 Letter:
- GPS and map any populations of threatened species (if applicable);
- GIS mapping of vegetation types present;
- Prepare a report on survey outcomes; and
- Provide the client with the IBSA Data package (as required to be submitted by the client).

1.1. Site location and Development Proposal

The "survey area" is defined as the 0.0458ha area within Crown Reserve 42507, situated on the Denmark-Nornalup Heritage Rail Trail, west of Denmark (refer to Figure 1). The client is proposing to clear native vegetation for a bridge realignment on the trail, through the Department of Water and Environmental Regulation, under section 51E(1) of the *Environmental Protection Act* 1986.





Figure 1: Survey Area Locality

2. Desktop Assessment

2.1. Geology and soils

Database searches using the NRInfo Portal (Department of Primary Industries and Regional Development, 2020) shows the subject site lies within the Walpole Hills System (254Wh). The system is described as "Granitic hills and low hills, in the south of the Warren-Denmark Southland. Loamy gravel, loamy earth, sandy gravel and loamy duplex. Jarrah-marri-karri forest and woodland" (DPIRD, 2020a). The Warren-Denmark Southland Zone is described as "Rises in a series of broad benches from the Southern Ocean north to the Blackwood Valley. Deeply weathered granite and gneiss overlain by Tertiary and Quaternary sediments in the south. Swampy in places." (DPIRD, 2020a). The soil type within the application area is mapped as the Hazelvale Subsystem (254WhHA), described as narrow sandy plains, slight stream incision. Humus podzols on crests of spurs; Teatree scrub. Yellow duplex soils on valley flanks; Jarrah-Marri low forest. Peaty podzols on minor valley floors; sedges and reeds (DPIRD, 2020a).

2.2. Climate

The closest Bureau of Meteorology (BoM) site is Mount Barker (009581) The average annual temperature in Mount Barker ranges from 9.5 – 20.2°C. The average summer temperature ranges between 11.4-26.3°C, whilst average winter temperatures range between 6.1-15.3°C. The annual mean rainfall for Mount Barker is 726.9mm (BoM, 2020). Climate data for Mount Barker has been used as there is no climate data available for Denmark.

2.3. Existing Land use

The survey area consists of remnant native vegetation within Crown Reserve 42507, which is comprised of a riparian vegetation corridor along the Little River valley and lies within a modified agricultural landscape. The Reserve is bordered by Mount Shadforth to the north (mixed bushland, private residential and agricultural), Mount Hallowell Shire reserve to the south, and residential areas and the Wilson Inlet to the east.



2.4. Habitat Connectivity

The South Coast Macro Corridor Network is a bioregional and landscape-scale approach to habitat connectivity that acknowledges that remnant vegetation can play a very important role in developing corridors between protected areas to help achieve long-term biodiversity management outcomes (Wilkins et al. 2006; DBCA, 2017). The survey area is classified as a "Strategic Zone A" area which "Contains areas of woody vegetation where polygons greater than 30 ha in size are spaced no greater than 1km apart and potentially form the most strategic link between major protected areas". The area lies within one of the un-named areas of the South Coast Macro-corridor (WALGA, 2020a), and is linked to larger areas of bushland and river corridor as stated in 1.4 above.

2.5. Water

The survey area does not lie within any Public Drinking Water Source areas (WALGA, 2020b). The Little River runs through the survey site, and the proposed clearing is associated with bridge realignment over it.

There are no significant wetlands within the survey area.

2.6. Environmentally Sensitive Areas

The survey area does not contain any environmentally sensitive areas (ESA), the nearest site lying approximately 14km to the north in the vicinity of Mount Lindesay.

2.7. Remnant Vegetation

The survey area lies within the Warren WAR01 IBRA subregion. The region is described as "Dissected undulating country of the Leeuwin Complex and Albany Orogen with loamy soils supporting Karri forest, laterites supporting Jarrah-Marri forest, leached sandy soils in depressions and plains supporting paperbark/sedge swamps, and Holocene marine dunes with Agonis flexuosa woodlands. Moderate Mediterranean." (Environment Australia, 2000).

The vegetation has been mapped on a broad scale by J.S. Beard (Shepherd *et al.* 2002) in the 1970's, where a system was devised for state-wide mapping and vegetation classification based on geographic, geological, soil, climate structure, life form and vegetation characteristics (Sandiford and Barrett, 2010). Vegetation units were regarded as associations and were grouped into Vegetation Systems representing a particular pattern of association distribution within a given area. A GIS search of J.S. Beards (Beard *et al.* 2013) vegetation classification places the survey area within one System and Vegetation Association (Source Pre-European dataset, DPIRD-006):

- System Association Name: Denmark.
- Vegetation Association Number: 14.
- **Structure Description:** Low forest, woodland or low woodland with scattered trees. Jarrah, banksia or casuarina *Eucalyptus marginata*, *Banksia* spp., *Allocasuarina* spp.
- Floristic Description: Jarrah, banksia or casuarina Eucalyptus marginata, Banksia spp., Allocasuarina spp.
- Remnant Vegetation by Beard Association Rarity in LGA: 90.32% remaining (GoWA, 2019).
- Remnant Vegetation by Beard Association Rarity in IBRA Region: 63.35% remaining (GoWA, 2019).

Mattiske and Havel (1998) as part of the biodiversity assessment for the comprehensive regional assessment for the south west forest region mapped the area as containing two vegetation complexes present:

- Vegetation Complex: Hazelvale (HA).
- Vegetation Description: Mosaic of a low woodland to woodland of Eucalyptus marginata Eucalyptus patens, low
 forest of Agonis junipera Callistachys lanceolata with closed heath of Myrtaceae spp. on sandy plains in the hyper
 humid zone.

2.8. Conservation Significant Flora

Desktop inventory of potential conservation significant flora species likely to occur within 10km of the survey area was undertaken using the following databases:

Nature Map Database Search (combined data from DBCA, WA Museum and WA Herbarium);



- Protected matters search tool (DAWE 2020);
- WA Herbarium records accessed through Flora Base (Western Australian Herbarium, 1998-); and
- The DWER preliminary desktop assessment (CPS 8708/1) provided by the client.

The full species list compiled from all available data (Appendix B) is based on observations from a broader area than the survey area and is likely to include species that would not occur in the actual survey area due to a lack of suitable habitat. The data also includes very old records and in some cases the species in question may have become locally or regionally extinct.

The conservation significance of flora species has been assessed using data from the following sources:

- Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act). Administered by the Australian Government Department of Agriculture, Water and the Environment (DAWE);
- Biodiversity Conservation Act 2016 (BC Act). Administered by the Western Australian Department of Biodiversity Conservation and Attractions (DBCA); and
- DBCA Priority Flora list. A non-legislative list maintained by DBCA for management purposes.

As a result of the above-mentioned database searches 11 Threatened and 25 Priority species were identified as potentially being present within the survey area (10km buffer). Refer to Appendix C for likelihood of presence analysis.

2.9. Threatened and Priority Ecological Communities

Database results also indicate that one ecological community 'Subtropical and Temperate Coastal Saltmarsh' may be present within the survey area. This ecological community is listed as a Priority Ecological Community (PEC) P3 within WA under the *Biodiversity Conservation Act 2016 (BC Act)* and as a Vulnerable Threatened Ecological Community (TEC) under the *Environment Protection and Biodiversity Conservation Act* 1999 (*EPBC Act*).

Consists of the assemblage of plants, animals and micro-organisms associated with saltmarsh in coastal regions of subtropical and temperate Australia (south of 23 Degrees S latitude). It occurs on the coastal margin, along estuaries and coastal embayments and on low wave energy coast in places with at least some tidal connection, including rarely-inundated supratidal areas, intermittently opened or closed lagoons, and groundwater tidal influences. The community occurs on sandy or muddy substrate and may include coastal clay pans and similar habitats. It consists of dense to patchy areas of characteristic coastal saltmarsh plant species that include salt- tolerant herbs, succulent shrubs or grasses, and may also include bare sediment as part of the mosaic. It can occur where the proportional cover by tree canopy such as mangroves, *Melaleucas* or *Casuarinas* or seagrass is not greater than 50%. (DBCA, 2020).

The description, area and condition thresholds that apply to the EPBC-listed TEC of the same name, also apply to this Priority ecological community.

The approved conservation advice for the ecological community and description above indicates that there is no relationship with the Beards vegetation type present within the survey area.

2.10. Potential Breeding, Foraging and Roosting Black Cockatoo Habitat

Desktop searches of publicly available information indicates that areas of the jarrah and marri dominated vegetation throughout the subject site is potential feeding / foraging habitat to Carnaby's black cockatoos (WALGA, 2020c). This dataset is based on vegetation containing plant species favoured by Carnaby's black cockatoos not point records of feeding (WALGA, 2020c). This dataset shows no confirmed or potential breeding or roosting areas for Carnaby's black cockatoos to be present within the subject site. Based on known habitat preferences for Baudin's black cockatoos and forest red-tailed black cockatoos the vegetation present in the subject site also holds potential for foraging, breeding and roosting for the two species (DSEWPaC (2012).



3. Flora and Vegetation Survey Methodology

Bio Diverse Solutions undertook a Spring season reconnaissance level flora and vegetation survey on the 9th September 2020. The survey area was surveyed via meandering traverses on foot, to identify the different vegetation types, their condition category and targeted survey for conservation significant species. Where areas contained suitable habitat for conservation significant flora these were more intensely surveyed. Two relevés were systematically surveyed within representative vegetation types to enable analysis and categorisation across the wider area (refer to Appendix B). The flora was systematically recorded within the relevés and collections of plant specimens were made where further identification was required. For species that were not flowering and where foliage or nuts / fruit couldn't be used for identification, potential habitat was used as an indication of the likelihood of species occurrence. The vegetation types occurring within the survey area were mapped and described using opportunistic mapping and relevés. Vegetation types were described based on structure, dominant taxa and cover characteristics as defined by relevé data and field observations.

Information collected within each relevé included:

- Location: coordinates of the relevé using a handheld GPS unit.
- Date and site code.
- Site description: landform, slope, soil colour and type and hydrology.
- Vegetation description: dominant and non-dominant species present within the different growth forms and percentage cover.
- Vegetation condition.

The aim of this survey was to provide context and gather knowledge of the survey area. This type of survey aims to verify the desktop information obtained, and to characterise the flora / vegetation units present within the survey area.

3.1. Survey Limitations and constraints

No limitations occurred for this survey. Please see Table 5 below for details.

Table 1: Flora survey limitations and constraints

Limitation	Comment
Experience of personnel	Australia, and subsequently with the Dept of Environment and Conservation (now DBCA). 4.5 years' experience in flora and vegetation assessment since working with Bio Diverse Solutions.
Survey timing	The client requested a Spring flora and vegetation survey, consistent with peak flowering times for the majority of species in the area.
Access restrictions	Access by vehicle along the Denmark-Nornalup Heritage Rail Trail and on foot. No access restrictions were encountered.
Availability of contextual information	Publicly available desktop and background information was readily available to give a broad contextual understanding of the site.
Survey effort and extent	32 species were identified during the survey, and two relevé data sets collected to gain as complete a picture as possible of flora species present at the site.
Disturbances that may affect results	No recent disturbances which may affect results of the survey were identified, e.g. recent fire or grazing.
Identification issues	The survey was undertaken during the peak flowering period for many south coast flora species to maximise ease of identifying them, however given that not all flora species flower during this time some species will be more difficult to observe in the field than others.



4. Flora and vegetation survey outcomes

During the survey 32 species, consisting of 18 families and 25 genera were found. The most commonly occurring families were Myrtaceae and Poaceae. The list includes 32 native species (Refer to Appendix B) and 5 introduced / alien species. The vegetation complexes identified across the subject site are described in Section 4.1. Refer to Appendix A for vegetation mapping, and Appendix B for full species list.

4.1. Vegetation Types

One vegetation type was described from within the survey area and is described below. Refer to Map 3 in Appendix A for mapping, and Appendix B for full species list and relevé specific data.

Table 2: Dominant vegetation type Karri forest – Eucalyptus diversicolor

Flat site situated at the bottom of a slope, with dark brown Clay Loam soil which is seasonally wet.

Vegetation Description: Eucalyptus diversicolor Tall forest over Corymbia calophylla, Allocasuarina decussata Woodland, over Acacia pentadenia Open Low Scrub A. Hibbertia cuneiformis Open Dwarf Scrub C, Lepidosperma effusum, Lepidosperma costale Very Open Tall Sedges, over Pteridium esculentum Very Open Ferns, over Oxalis incarnata., Plantago lanceolata Very Open Herbs, over Cenchrus clandestinus, Cynodon dactylon Very Open Grasses.

Total of 0.046ha within the survey area.

Lifeform	Cover (%)	Dominant species
Trees >30m	30-70%	Eucalyptus diversicolor
Trees 10-30m	10-30%	Corymbia calophylla, Allocasuarina decussata
Shrubs >2m	30-70%	Trymalium odoratissimum subsp. trifidum
Shrub1-2m	2-10%	Acacia pentadenia
Shrubs 0.5-1m	<5%	Hibbertia cuneiformis
Sedge	<5%	Lepidosperma effusum, Lepidosperma costale
Herbaceous	2-10%	Pteridium esculentum, Oxalis incarnata*, Plantago lanceolata*
Grass	2-10%	Cenchrus clandestinus*, Cynodon dactylon*











4.2. Vegetation Condition

The vegetation at the site is comprised of one type, namely karri forest (*Eucalyptus diversicolor*), and was rated as being in 'Very Good' condition (refer to Table A10: Condition Rating Scale (adapted from Keighery, 1994)). This classification level refers to there being some visible disturbance at the site, and some degradation from fire/weeds/grazing pressure present.

Table 3: Vegetation condition rating

Vegetation type	Condition rating	Area (ha)
Eucalyptus diversicolor forest	Very Good	0.046
Total		0.046

4.3. Weeds and disturbance

Of the 32 species recorded within the subject site, 6 species are introduced; Zantedeschia aethiopica (Arum Lily), Plantago lanceolata (Ribwort Plantain), Cenchrus clandestinus (Kikuyu Grass), Cynodon dactylon (Couch), Hypochaeris sp. (Flatweed) and Oxalis incarnata. All species except Arum Lily (Zantedeschia aethiopica) are classed as 'Permitted – s11', while Arum Lily is rated as higher risk classed as a 'Declared Pest – s22(2) under the Biosecurity and Agriculture Management Act 2007. Under the Environmental Weeds Strategy for Western Australia (CALM 1999) Arum Lily is listed as "High", Kikuyu as "Moderate" with the remaining four species not listed. Refer to Table 4 below.

Table 4: Weed species recorded from the subject site

Family	Species	WA Weed Strategy rating (CALM 1999) / BAM Act (2007)
Araceae	Zantedeschia aethiopica	High / Declared Pest – s22(2) (Exempt)
Asteraceae	Hypochaeris sp.	- / Permitted – s11
Plantaginaceae	Plantago lanceolata	Not listed / Permitted – s11
Poaceae	Cynodon dactylon	Not listed / Permitted – s11
Poaceae	Cenchrus clandestinus	Moderate / Permitted – s11
Oxalidaceae	Oxalis incarnata	Low / Permitted – s11

4.4. Threatened Flora

The scope for this survey was to provide the client with information on any Threatened or Priority flora species that are potentially present within the survey area. For species that were not flowering and that require flowers for accurate identification, a risk assessment was undertaken of habitat suitability (Table A5, Appendix C). Species were deemed either likely or unlikely to occur in the area based on habitat suitability (e.g. soil type, vegetation type, density etc). None of the 36 Threatened/Priority species identified during the desktop assessment were identified during the survey.

Likelihood of occurrence assessment.

Of the 32-conservation significant flora potentially present 20 were classified as "Highly Unlikely" 10 as 'Unlikely", 4 as "Possible" and 2 as "Likely". Refer to Table A5 in Appendix C for likelihood assessment. The 2 species given a likelihood of "Likely" are:

- Tetraria sp. Blackwood River (A.R. Annels 3043) (P3); and
- Gahnia sclerioides (P4).

The four species given a likelihood analysis of "Possible" are:

- Melaleuca viminalis (P2);
- Anthocercis sylvicola (P3);
- Commersonia apella (T); and
- Thomasia solanacea (P4).

Priority 3 species *Tetraria* sp. Blackwood River (A.R. Annels 3043) and *Gahnia scleroides* (P4) were both assessed as being likely to occur within the area, based of local knowledge and understanding of the species habitat preferences. *Gahnia sclerioides* prefers moist shaded situations and loam / sandy soils. Whilst there is little known about *Tetraria sp.* Blackwood River (A.R. Annels 3043), given a high proportion species prefer riparian habitats it was deemed likely to occur in the broader



area. Neither of these two species were identified in the survey period, and no unidentifiable species from their respective genera were observed suring the survey.

Melaleuca viminalis (P2), Anthocercis sylvicola (P3), Commersonia apella (T) and Thomasia solanacea (P4) were all deemed as "Possible" to occur within the survey area, although they were not located during the survey period. There were no unidentified species of Melaleuca, Anthocercis, Commersonia, or Thomasia observed within the survey period.



5. Targeted Fauna Habitat Survey Methodology

The DWER provided a letter that states assessment / survey is required for the application area (Schedule 1, Item 1) and the survey is required to identify all trees that have a diameter, measured at 1.5 metres from the base of the tree, of 500 millimetres or greater that contain a hollow(s) that may be suitable for breeding by Carnaby's cockatoo, Baudin's cockatoo, and/or forest red-tailed black cockatoo. As such, a targeted survey was undertaken which focused solely on trees >500mm DBH that contained hollows likely to be suitable for cockatoos. The letter also outlined that the following must be documented:

- the date(s) of the survey;
- the GPS locations (i.e. eastings and northings or decimal degrees) of all trees identified as containing hollows which
 may be suitable for black cockatoos;
- the methodology for determining the evidence of use of each hollow; and
- a description/photo of the evidence of use.

Furthermore, the DWER letter states the survey area may also contain significant diurnal refuge sites and breeding habitat for both the south-western brush-tailed phascogale (*Phascogale tapoatafa wambenger*), and the western ringtail possum (*Pseudocheirus occidentalis*). The survey methodology also incorporated assessing the area for sign of habitat utilisation by these two species.

Field survey work was carried out by (Conservation and Wildlife Biologist) from Bio Diverse Solutions on the 9th of September 2020, in accordance with Guidance Statement 56: *Terrestrial Fauna Surveys* (EPA 2020) and Technical Guidance: Sampling methods for Terrestrial vertebrate fauna (EPA 2020). All trees >500mm DBH within and directly adjacent to the survey area were GPS located, measured 1.5m above ground (DBH), photographed and trees assessed for hollows. Suitable hollows are also assessed based on evidence of scratching and chewing around the hollow entrance, hollow entrance size and signs of activity at the base of the tree, e.g. feathers, faecal material, feeding debris.

The assessment was carried out in a manner consistent with the following documents developed by the EPA and Department of Agriculture, Water and the Environment (DAWE) formerly the Department of Sustainability, Water, Population, and Communities (DSEWPaC) and Department of the Environment, Water, Heritage and the Arts (DEWHA):

- EPA (2020) Technical Guidance Terrestrial vertebrate fauna surveys for environmental impact assessment;
- DEWHA (2010) Survey guidelines for Australia's threatened birds; and
- DSEWPaC (2012) Referral Guidelines for Three Threatened Black Cockatoo Species.

The results presented are based upon field data collected over a limited period of time and are indicative of the environmental condition of the site at the time.

5.1. Survey Limitations and Constraints

No limitations occurred for this survey. Please see Table 5 below for details.

Table 5: Fauna survey limitations and constraints

Limitation	Comment
Scope	The scope was a targeted survey to identify significant trees (>500mm DBH) that contain a hollow(s) that may be suitable for breeding by Carnaby's cockatoo, Baudin's cockatoo, and/or forest red-tailed black cockatoo.
Disturbances that may affect	No recent disturbances which may affect results of the survey were identified, e.g.
results	recent fire or grazing.
Intensity of survey	The threatened targeted assessment was deemed appropriate given the scope was to identify if the Karri trees present contained suitable black cockatoo breeding hollows.
Sources of information (recent or historic) and availability of contextual information	Information regarding the site was readily available from the Shire of Denmark and databases such as NatureMap.
Remoteness or access issues	Access by vehicle along the Denmark-Nornalup Heritage Rail Trail and on foot. No access restrictions were encountered.
Experience of personnel	has 4.5 years' experience in fauna assessment working alongside Nildlife Ecologist) since working with Bio Diverse Solutions.



6. Fauna Habitat Survey Outcomes

Seven significant trees (>500mm DBH) were identified within the subject site, all of them karri (*Eucalyptus diversicolor*). None of the seven trees identified contained any hollows and there was no evidence found of feeding or roosting by the three black cockatoo species. Refer to Table 6 and Figure 2 over the page. No signs of presence, diurnal refuges or breeding habitat were identified for western ringtail possum (*Pseudocheirus occidentalis*),) or phascogale (*Phascogale tapoatafa wambenger*) during the survey. The vegetation in the survey area is very sparse and open with a limited mid and understorey. Both mammal species can be difficult to detect in the karri forest from a single-phase survey. However, there were no hollows detected in the karri trees and no other signs of species presence were observed within the survey period.



Table 6: Significant trees (>500mm DBH) assessed within and directly adjacent to the survey area.

	• •									
Tree		DBH			Hollows	Location (trunk,	Size of entrance (w x h)	Type of entrance (side, chimney,	Height above ground	Chewing and/ or scratching present
ID	Species	(mm)	Eastings	Northings	Present (Y/N)	branch)	cm	elbow)	(m)	(Y/N)
1	Eucalyptus diversicolor	639	528942.840401	6128680.43864	N	N/A	N/A	N/A	N/A	N
2	Eucalyptus diversicolor	681	528917.872779	6128683.53913	N	N/A	N/A	N/A	N/A	N
3	Eucalyptus diversicolor	931	528936.926114	6128684.69303	N	N/A	N/A	N/A	N/A	N
4	Eucalyptus diversicolor	727	528925.704449	6128676.86514	N	N/A	N/A	N/A	N/A	N
5	Eucalyptus diversicolor	649	528875.835794	6128679.53057	N	N/A	N/A	N/A	N/A	N
6	Eucalyptus diversicolor	1078	528865.487841	6128686.28321	N	N/A	N/A	N/A	N/A	N
7	Eucalyptus diversicolor	860	528863.488049	6128681.62753	N	N/A	N/A	N/A	N/A	N



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7. Summary

7.1. Vegetation, Threatened and Priority Flora and Ecological Communities

The scope for this spring season survey was to provide the client with further details on the vegetation composition present at the site and to identify areas of suitable habitat for conservation significant species. A total of 32 flora species were identified throughout the subject site, of these six are introduced. One vegetation complex was identified within the area; Karri forest. Vegetation structure in the western portion consisted of a tree layer containing eucalypts of various ages including mature, young and saplings, and a midstorey and understorey layers consisting of a mix of common local native species and weedy introduced herbaceous/grass species. Overall, the vegetation condition is described as Very Good throughout the survey area, due to there being some evidence of disturbance and weed species present.

The survey effort found no conservation significant species, although it was noted that suitable habitat was present for six conservation listed species identified in the desktop assessment.

7.2. Fauna / significant tree survey

Of the seven significant trees identified during the survey, none contained hollows or showed any signs of inhabitation by black cockatoo species. In addition, no feeding signs were observed, and no indicators of roosting by the three black cockatoo species. Similarly, no signs of presence, diurnal refuges or breeding habitat were identified for western ringtail possum (*Pseudocheirus occidentalis*),) or phascogale (*Phascogale tapoatafa wambenger*) during the survey.



8. References

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9. Appendices

Appendix A - Maps

Appendix B - Species Lists and Relevé Data

Appendix C – Conservation Significant Values Likelihood of Occurrence Analysis

Appendix D – Conservation Status Definitions and Condition Scale

Appendix E - NatureMap and EPBC Act PMST reports



Appendix A

Maps





Appendix B

Flora Species Lists and Relevé Data



Table A1: Flora Species List recorded within survey area

Note: * Denotes a weed species

Family	Genus	Species	Common Name	Conservation Status
Araceae	Zantedeschia	aethiopica	Arum Lily	*
Asparagaceae	Lomandra	pauciflora		
Asteraceae	Hypochaeris	sp.		*
Casuarinaceae	Allocasuarina	decussata	Karri She-oak	
Cyperaceae	Lepidosperma	costale		
Cyperaceae	Lepidosperma	effusum	Spreading Sword-sedge	
Dilleniaceae	Hibbertia	cuneiformis	Cutleaf Hibbertia	
Dilleniaceae	Hibbertia	furfuracea		
Elaeocarpaceae	Tremandra	stelligera		
Ericaceae	Leucopogon	obovatus		
Ericaceae	Leucopogon	verticillata	Tassel Flower	
Fabaceae	Hovea	elliptica	Tree Hovea	
Fabaceae	Callistachys	lanceolata	Wonnich	
Fabaceae	Acacia	pentadenia	Karri Wattle	
Juncaceae	Juncus	pallidus	Pale Rush	
Myrtaceae	Corymbia	calophylla	Marri	
Myrtaceae	Eucalyptus	diversicolor	Karri	
Myrtaceae	Agonis	flexuosus	Peppermint	
Myrtaceae	Taxandria	linearifolia		
Myrtaceae	Eucalyptus	marginata	Jarrah	
Myrtaceae	Taxandria	parviceps		
Oxalidaceae	Oxalis	incarnata		*
Plantaginaceae	Plantago	lanceolata	Ribwort Plantain	*
Poaceae	Cenchrus	clandestinus	Kikuyu Grass	*
Poaceae	Cynodon	dactylon	Couch	*
Pteridaceae	Adiantum	aethiopicum	Common Maidenhair	
Pteridaceae	Pteridium	esculentum	Bracken	
Ranunculaceae	Clematis	pubescens	Common Clematis	
Restionaceae	Leptocarpus	roycei		
Rhamnaceae	Trymalium	odoratissimum subsp. odoratissimum	Karri Hazel	
Rubiaceae	Opercularia	hispida	Hispid Stinkweed	
Rubiaceae	Opercularia	volubilis	Twining Stinkweed	



Table A2: Data from Relevé Site 1

Relevé	R1 Veg (Code	Euc div	Date Surveyed	9th September 2020			
Location	Denmark-Nornalup Herit	age Rail	Trail Bridge Site	9				
GPS (WGS 84)	34° 59' 2.54587" S							
Landform and Slope	Slope Lower			•				
Soils	Clay Loam, dark brown o	olour						
Hydrology	Seasonal wet							
Vegetation description (Muirs)	Eucalyptus diversicolor T odoratissimum subsp. tri Oxalis incarnata, Plantag dactylon Very Open Gras	fidum Th Io lanced	icket, over Pter	idium esculentum Ver	y Open Ferns, over			
Condition	Very Good							
Comments	-							
Life Form	Dominant Species	Ot	ther Species		Cover (%)			
Trees >30m	Eucalyptus diversicolor				30-70			
Trees 10-30m	Corymbia calophylla				10-30			
Shrub >2m	Trymalium odoratissimur subsp. trifidum	n			30-70			
Shrub 0.5-1m		Hi	bbertia cuneifor	mis	<5			
Sedge	Lepidosperma effusum, Lepidosperma costale				<5			
Herb	Pteridium esculentum, Oxalis incarnata, Plantag Ianceolata		lomatic pubacco	une.	2-10			
LIGIN	Cenchrus clandestinus.	- CI	lematis pubesce	1119	Z-10			
Grass	Cynodon dactylon				2-10			





Table A3: Data from Relevé Site 3

Relevé	R2 Veg	Code	Euc div	Date Surveyed	9th September 2020			
Location	Denmark-Nornalup Heritage Rail Trail Bridge Site.							
GPS (WGS 84)	34° 59' 2.61485" S			117° 18' 58.9018	2" E			
Landform and Slope	Slope Lower							
Soils	Clay Loam, dark brown	colour						
Hydrology	Seasonal wet							
Vegetation description (Muirs)	pentadenia Open Low S Sedges, over Pteridium	Eucalyptus diversicolor Tall Forest, over Allocasuarina decussata Woodland, over Acacia pentadenia Open Low Scrub A, over Lepidosperma effusum, Lepidosperma costale Open Tall Sedges, over Pteridium esculentum Very Open Ferns, over Plantago lanceolata Very Open Herbs, over Cynodon dactylon Open Grass.						
Condition	Very Good							
Comments								
Life Form	Dominant Species	Otl	her Species		Cover (%)			
Trees >30m	Eucalyptus diversicolor				30-70			
Trees 10-30m	Allocasuarina decussat	а			10-30			
Shrub >2m		Try	malium odoratis	simum subsp. trifidu	m <5			
Shrub 1-2m	Acacia pentadenia	Но	vea elliptica		2-10			
Sedge	Lepidosperma effusum, Lepidosperma costale	11	nachaoria as C		2-10			
	Pteridium esculentum,			percularia hispida,	2-10			
Herb	Plantago lanceolata	LOI	mandra pauciflo	а	2-10			





Appendix C

Conservation Significant Values Likelihood of Occurrence Analysis



Table A4: Criteria for assessing the likelihood of occurrence of conservation significant flora within a 10km radius of the survey area

Likelihood	Criteria
Present	Species is recorded within the survey area.
Likely	Species has been previously recorded in close proximity and suitable habitat occurs within the survey
	area.
Possible	Species previously recorded within 10 km and suitable habitat occurs in the survey area.
Unlikely	Suitable habitat for the species does not occur at the survey area OR Suitable habitat may occur but the species has a highly restricted distribution, is very rare and only known from a limited number of populations.
Highly Unlikely	The survey area is outside the species' natural distribution.



Table A5: Potential conservation significant flora located within 10km of the survey area and likelihood of occurrence analysis (post survey). Note: Table is sorted in order of likelihood of occurrence.

Family	Species	Conservation Code	Habitat	Survey in Flowering Period	Likelihood post survey	Comments
			Lax, slender rhizomatous, perennial, grass-like or herb (sedge), 0.3-0.9 m high. Loam, sandy soils. Moist shaded			
Cyperaceae	Gahnia sclerioides	P4	situations.	N/A	Likely	Not located
	Tetraria sp. Blackwood					
Cyperaceae	River (A.R. Annels 3043)	P3	N/A	N/A	Likely	Not located
				l I		
Solanaceae	Anthocercis sylvicola	P3	Shrub, 0.45-1.3 m high. Fl. yellow & purple, Oct. Sand. Erect to spreading shrub 1.5-2m high, to 1-2.5m wide. Fl. creamy-yellow, Oct–Dec. Banks of streams or rivers,	N	Possible	Not located
			growing in humic, greyish-brown, clayey-sand, in open jarrah-wandoo woodland, karri-marri forest and coastal			
Malvaceae	Commersonia apella	Т	Eucalyptus angulosa, E. conferruminata and E. cornuta mallee shrubland.	N N	Possible	Not located
Mustanaa	Melaleuca viminalis	P2	N/A	N/A	Possible	Not located
Myrtaceae	Melaleuca virtiirialis	PZ	IN/A	N/A	Possible	Not located
			Erect shrub, 0.5-3 m high. Fl. blue-purple-pink, Sep to Dec. Alluvium, sand over limestone, rocky loam. Coastal			
Malvaceae	Thomasia solanacea	P4	areas.	Y	Possible	Not located
Orchidaceae	Caladenia applanata subsp.	P2	Tuberous, perennial, herb, 0.25-0.4 m high. Fl. pink, Sep to Oct. Sand. Consolidated dunes, summer burnt areas.	Y	Unlikely	Wrong habitat. Usually found on white sand in dense heath, or Peppermint thicket.
Orchidaceae	erubescens	PZ		1	Unlikely	
			Tree, to 12 m high, bark smooth, powdery, white. Fl. white, Dec or Jan or Jul. Clay or sandy loam, shallow soil over			Wrong habitat. Usually associated with
Myrtaceae	Eucalyptus virginea	P4	granite, laterite loam over clay. Lower slopes near watercourses, edge of rock outcrops, gently sloping sites.	N	Unlikely	Jarrah/Marri woodland on granite.
Fabaceae	Kennedia glabrata	T	Prostrate shrub, 0.05-0.5 m high, to 5 m wide. Fl. red, Aug to Nov. Soil pockets, sandy soils. Granite outcrops.	Y	Unlikely	Wrong habitat. Usually on granite outcrops.
	Lasiopetalum sp. Denmark					Wrong habitat. Usually found associated with
Malvaceae	(B.G. Hammersley 2012) Lepidium	P3	N/A	N/A	Unlikely	Jarrah/Marri/Sheoak woodland
Brassicaceae	pseudotasmanicum	P4	Erect annual or biennial, herb, 0.2-0.4(-1) m high. Fl. white-green, Feb or Dec. Loam, sand.	N	Unlikely	Wrong habitat.
Pleurophascaceae	Pleurophascum occidentale	P4	This distinctive mass forms a loose mat with vertical stems, 1 to 3 cm high, growing off a rhizomatous base. It is generally glossy yellowish-green above and bronze-brown below. The soft leaves are spirally arranged, and overlap, Grows with other mosses under the cover of myrtaceous and other shrubs. Known to occur in a wide range of habitat including shallow soils on the edge of grante, deep white sand on laterite, sandy clay loam on sandstone pink sand on sandstone as well as sandy soils some distance from granter outcrops.	N/A	Unlikely	Wrong habitat.
	,				•	
Malvaceae	Thomasia quercifolia	P4	Shrub, 1m high. Fl pink or purple, April, August, October, November or December. Coastal heath on secondary limestone	Y	Unlikely	Wrong habitat. Usually found in coastal heath.
Marvaceae	Thomasia querciiolia	P4	Erect, procumbent or decumbent shrub (subshrub), 0.05-0.25 m high, leaves simple, cuneate; umbels simple; petals	'	Utilikely	wrong habitat. Osually lound in coastal heath.
			shorter than sepals. Fl. white-cream, Oct to Nov. Grey sand over granite, sandy loam. Granite outcrops, jarrah/marri			Wrong habitat. Usually associated with open
Apiaceae	Xanthosia eichleri	P4	woodland.	N	Unlikely	Jarrah/Marri woodland or Heath.
	Andersonia sp. Virolens					Wrong habitat. Usually associated with
Ericaceae	(G.J. Keighery 12000)	P3	N/A	N/A	Highly unlikely	Jarrah/Bullich woodland on granite.
Asteraceae	Angianthus drummondii	P3	Erect annual, herb, to 0.1 m high, Fl. vellow, Oct to Dec. Grev or brown clay soils, ironstone. Seasonally wet flats.	N	Highly unlikely	Not found near survey area.
7 ISICI GCGGC	Pingiantnas arammonai	10	Erect, slender, non-lignotuberous shrub, 1-4(-7) m high. Fl. yellow/cream-green, Jul to Sep. Gravel, sand or clay loam	.,	riigiliy uniikciy	Wrong habitat. Usually found in Jarrah/Marri
Proteaceae	Banksia serra	P3	over laterite. Hillslopes.	Y	Highly unlikely	woodland or Heath on ironstone gravel.
110000000	Barmora corra		ora done. Hillospoo.		riigiii) uiiiiioi)	Woodana of Floati of Honotono gravo.
Proteaceae	Banksia sessilis var. cordata	P4	Non-lignotuberous shrub, to 2.5 m high. Fl. cream-yellow, Jul to Oct. White/grey sand. Coastal limestone.	Y	Highly unlikely	Wrong habitat. Usually found on coastal limestone.
	Samola sossilis var. cordata	1.7	Tron ng. Stabbrook Strab, to 2.0 m night in drount joilow, but to Ook. Thirtogray build. Oddstal lilliostolie.	<u> </u>	. ngmy unintely	
Rutaceae	Boronia virgata	P4	Slender, erect or sprawling shrub, 0.3-2 m high. Fl. pink, Aug to Dec or Jan to Feb. Peaty sand or clay. Swampy or waterlogged places.	Y	Highly unlikely	Wrong habitat. Usually found on peaty sand and clay in waterlogged habitat.
Boryaceae	Borya longiscapa	P3	Dwarf domed perennial, herb, to 0.6 m high. Fl. cream-white-yellow, Oct to Dec. Grey sand. Granite outcrops.	N	Highly unlikely	Wrong habitat.



Table A5 continued

						1
Family	Species	Conservation Code	Habitat	Survey in Flowering Period	Likelihood post survey	Comments
Orchidaceae	Caladenia harringtoniae	Т	Tuberous, perennial, herb, 0.2-0.4 m high. Fl. pink, Oct to Nov. Sandy loam. Winter-wet flats, margins of lakes, creeklines, granite outcrops.	N	Highly unlikely	Wrong habitat. Usually found associated with seasonally wet Melaleuca shrubland.
Dasypogonaceae	Calectasia cyanea	Т	Rhizomatous, clump forming, woody perennial, herb, 0.1-0.6 m high, to 0.3 m wide. Fl. blue/purple, Jun to Oct. White, grey or yellow sand, gravel.	Y	Highly unlikely	Wrong habitat. Usually found in heath or coastal heath on white sand.
Haemodoraceae	Conostylis misera	Т	Rhizomatous, tufted perennial, grass-like or herb, 0.05-0.18 m high. Fl. yellow, Oct to Nov. White or grey sand, sandy loam. Winter-wet flats.	N	Highly unlikely	Wrong habitat. Usually found in wet areas of Jarrah/Marri woodland associated with paperbark shrubland.
Orchidaceae	Corybas limpidus	P4	Tuberous, perennial, dwarf herb, 0.01 m high. Fl. red & green, Aug to Sep. Sand. Coastal dunes.	Y	Highly unlikely	Wrong habitat. Usually found in swale of coastal dunes under Peppermint thicket.
Orchidaceae	Drakaea micrantha	Т	Tuberous, perennial, herb, 0.15-0.3 m high. Fl. red & yellow, Sep to Oct. White-grey sand.	Y	Highly unlikely	Wrong habitat. Usually found in Jarrah Forest or adjacent heathland.
Amblystegiaceae	Drepanocladus aduncus	P2	N/A	N/A	Highly unlikely	Wrong habitat. Usually associated with Flooded Gum.
Droseraceae	Drosera fimbriata	P4	Erect tuberous, perennial, herb, 0.05-0.15 m high. Fl. white, Sep to Oct. White sand, granite.	Y	Highly unlikely	Wrong habitat. Usually found in open heathland.
Proteaceae	Grevillea fuscolutea	Т	Open, erect shrub, 0.5-2.5 m high. Fl. yellow, Apr to Nov. Coarse grey sand or brown-black loam over granite. Granite outcrops.	Y	Highly unlikely	Wrong habitat. Usually found on granite outcrops.
Proteaceae	Isopogon uncinatus	Т	Tufted spreading or prostrate, non-lignotuberous shrub, 0.05-0.4 m high. Fl. yellow/cream, Oct to Nov. Loam or sand on granite, peatly sand. Swampy depressions, hillslopes.	N	Highly unlikely	Wrong habitat. Usually found on peat sand in wet depressions between granite outcrops.
Orchidaceae	Microtis globula	Т	Tuberous, perennial, herb, 0.18-0.35 m high. Fl. yellow-green, Dec or Jan. Peaty soils. Winter-wet swamps.	N	Highly unlikely	Wrong habitat. Usually found in myrtaceous swamp.
Orchidaceae	Microtis pulchella	P4	Tuberous, perennial, herb, 0.12-0.25 m high. Fl. white, Nov to Dec or Jan. Peaty sand. Winter-wet swamps.	N	Highly unlikely	Wrong habitat. Usually found in myrtaceous swamp.
Goodeniaceae	Selliera radicans Name changed to Goodenia radicans.	P1	N/A	N/A	Highly unlikely	Wrong habitat.
Ericaceae	Sphenotoma drummondii	Т	Tufted shrub, 0.15-0.5 m high. Fl. white, Sep to Dec. Stony or shallow soils over granite or quartzite. Steep rocky slopes, crevices of rocks.	Y	Highly unlikely	Wrong habitat. Usually found on mountain slopes in rock crevices.
Stylidiaceae	Stylidium sp. Kordabup (A.R. Annels 1660)	P1	NA NA	N/A	Highly unlikely	Wrong habitat. Usually associated with Jarrah around granite on grey peaty sand.
Proteaceae	Synaphea incurva	P3	Clumped, spreading shrub. Fl. yellow, Sep to Nov. Gravelly loam, sandy soils. Slopes.	Y	Highly unlikely	Wrong habitat. Usually associated with Jarrah/Sheoak woodland.
Myrtaceae	Verticordia apecta	Т	Slender, erect shrub, 0.2-0.45 m high. Fl. white-pink, Nov. Sandy clay with loam & broken granite. Slopes.	N	Highly unlikely	Wrong habitat. Usually found in open Wandoo woodland on granite slopes.



Appendix D

Conservation Status Definitions and Condition Scale



Table A6: Conservation code definitions for flora and fauna as listed as threatened or specially protected.

Threatened, Extinct and Specially Protected fauna or flora are species which have been adequately searched for and are deemed to be, in the wild, threatened, extinct or in need of special protection, and have been gazetted as such.

Threat Category	Definition
Threatened - Critically endangered	
species (CR)	Facing an extremely high risk of extinction in the wild in the immediate future
Threatened - Endangered species (EN)	Facing a very high risk of extinction in the wild in the near future
Threatened - Vulnerable species (VU)	Facing a high risk of extinction in the wild in the medium-term future
Threatened - Extinct (EX)	There is no reasonable doubt that the last member of the species has died
Threatened – Extinct in the wild (EW)	Species is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form
	Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals that are known to visit Western Australia, protected under the
Specially protected species - Migratory species (MI)	international agreements or treaties, excluding species that are listed as Threatened species.
Specially protected species – Conservation Dependent (CD)	Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened,
Specially protected species – Other specially protected species (OS)	Fauna otherwise in need of special protection to ensure their conservation

Table A7: Conservation code definitions for flora and fauna as listed as Priority.

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.

Threat Category	Definition
Priority 1: Poorly-known species	Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation.
Priority 2: Poorly-known species	Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation.
Priority 3: Poorly-known species	Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat.
Priority 4: Rare, Near Threatened and other species in need of monitoring	 (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands. (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as Conservation Dependent. (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.



Table A8: Conservation code definitions for ecological communities listed as threatened (TEC)

Threat Category	Definition
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.
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.

Table A9: Conservation code definitions for ecological communities listed as priority (PEC)

Possible threatened ecological communities that do not meet survey criteria or that are not adequately defined are added to the Priority Ecological Community List under priorities 1, 2 and 3.

Threat Category	Definition
Priority One (P1)	Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤5 occurrences or a total area of ≤100ha), and appear to be under immediate threat.
Priority Two (P2)	Communities that are known from few occurrences with a restricted distribution (generally ≤10 occurrences or a total area of ≤200ha). At least some occurrences are not believed to be under immediate threat (within approximately 10 years) of destruction or degradation.
Priority Three (P3)	(i)Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or: (ii)communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat (within approximately 10 years), or; (iii)communities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, inappropriate fire regimes, clearing, hydrological change etc.
Priority Four (P4)	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.
Priority Five (P5)	Conservation Dependent 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.



Table A10: Condition Rating Scale (adapted from Keighery 1994) outlined in EPA (2016a).

Vegetation Condition Rating	Description
Deletine	Pristine or nearly so, no obvious signs of disturbance or damage caused by human
Pristine	activities since European settlement.
	Vegetation structure intact, disturbance affecting individual species and weeds are
	non-aggressive species. Damage to trees caused by fire, the presence of non-
Excellent	aggressive weeds and occasional vehicle tracks.
	Vegetation structure altered, obvious signs of disturbance. Disturbance to vegetation
	structure caused by repeated fires, the presence of some more aggressive weeds,
Very good	dieback, logging and grazing.
	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
Good	clearing, dieback and grazing.
	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
Degraded	aggressive weeds at high density, partial clearing, dieback and grazing.
	The structure of the 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 and
Completely Degraded	shrubs.



Appendix E

NatureMap and EPBC Act PMST reports



NatureMap Flora Species Report

Created By Guest user on 24/08/2020

Kingdom Plantae
Current Names Only Yes
Core Datasets Only Yes
Species Group All Plants
Method 'By Circle'

Centre 117° 18' 58" E,34° 59' 02" S

Buffer 10km Group By Family

Family	Species	Records
Acrobolbaceae	1	3
Aizoaceae	1	2
Amblystegiaceae	1	3
Anarthriaceae Aneuraceae	5 3	46 12
Anthocerotaceae	1	4
Apiaceae	17	57
Araliaceae	3	10
Asparagaceae	15	27
Aspleniaceae	1	5
Asteraceae	43 1	85
Aytoniaceae Bartramiaceae	2	1
Basellaceae	1	1
Boraginaceae	1	2
Boryaceae	2	7
Brassicaceae	7	9
Bryaceae	9	16
Campanulaceae	6	11
Caprifoliaceae Caryophyllaceae	1 5	1 6
Casuarinaceae	2	15
Celastraceae	2	2
Centrolepidaceae	4	11
Cephaloziellaceae	1	3
Ceramiaceae	1	2
Chenopodiaceae	7	16
Colchicaceae	3	4
Convolvulaceae	2 3	3
Crassulaceae Cyperaceae	ა 51	143
Dasypogonaceae	3	5
Dennstaedtiaceae	1	1
Dicranaceae	5	14
Dilleniaceae	14	56
Ditrichaceae	3	4
Droseraceae	12	22
Elaeocarpaceae	5 1	11
Eremosynaceae Ericaceae	36	2 124
Euphorbiaceae	6	16
Fabaceae	102	312
Fabroniaceae	1	1
Fissidentaceae	2	9
Funariaceae	1	1
Gentianaceae	4	5 9
Geraniaceae Goodeniaceae	5 18	79
Gyrostemonaceae	1	2
Haemodoraceae	9	24
Haloragaceae	2	3
Hedwigiaceae	3	3
Hemerocallidaceae	5	16
Hypnaceae	1	1
Iridaceae	7	20
Juncaceae	10 1	28 2
Juncaginaceae Lamiaceae	7	12
Lauraceae	5	13
Lentibulariaceae	2	2
Lepidoziaceae	2	3
Linaceae	1	2
Lindsaeaceae	1	2
Loganiaceae	3	4
Lophocoleaceae	1	3
Lythraceae Malyaceae	1 13	3 63
Malvaceae Menyanthaceae	2	3
Montiaceae	3	8
Myrtaceae	61	195
Olacaceae	2	14
Onagraceae	4	4
Orchidaceae	45	76
Orobanchaceae	3	10

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.







Orthodontiaceae Orthotrichaceae	1	2
Oxalidaceae	4	4
Pallaviciniaceae	1	2
Papaveraceae	2	2
Passifloraceae	1	1
Philydraceae	1	1
Phyllanthaceae	4	9
Phytolaccaceae	1 9	2 55
Pittosporaceae Plantaginaceae	5	55 8
Plantaginaceae Pleurophascaceae	5 1	2
Poaceae	65	148
Podocarpaceae	1	2
Polygalaceae	4	12
Polygonaceae	9	15
Polyphysaceae	1	1
Pottiaceae	9	19
Primulaceae	2	4
Proteaceae	42	135
Pteridaceae	1	1
Racopilaceae	1	2
Radulaceae	1 2	2 6
Ranunculaceae Restionaceae	18	45
Rhamnaceae	3	25
Ricciaceae	1	1
Rosaceae	5	13
Rubiaceae	4	17
Rutaceae	14	47
Salviniaceae	1	1
Santalaceae	6	21
Scapaniaceae	1	3
Schizaeaceae	1	1
Scrophulariaceae	4	9
Sematophyllaceae	3 4	5 7
Solanaceae Stylidiaceae	25	87
Thuidiaceae	25	2
Thymelaeaceae	10	32
Urticaceae	1	2
Verbenaceae	1	1
Xanthorrhoeaceae	2	2
Xyridaceae	2	5
Zamiaceae	1	3
TOTAL	894	2468





	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Acrobolbac	eae				
1.		Lethocolea pansa			
Aizoaceae					
2.	2823	Tetragonia implexicoma (Bower Spinach)			
A la la 4 a!					
Amblystegia		Decreased advise advises in		D0	
3.	20165	Drepanocladus aduncus		P2	
Anarthriace	ae				
4.	1058	Anarthria gracilis			
5.		Anarthria prolifera			
6.		Anarthria scabra			
7.		Lyginia barbata			
8.	18049	Lyginia imberbis			
Aneuraceae	•				
9.		Riccardia aequicellularis			
10.		Riccardia bipinnatifida			
11.		Riccardia graeffei			
Anthocerota	aceae				
12.		Anthoceros punctatus			
Apiaceae					
13.		Actinotus omnifertilis			
14.		Apium prostratum subsp. prostratum var. filiforme			
15.		Apium prostratum subsp. prostratum var. prostratum (Sea Celery)			
16.		Centella asiatica			
17.		Daucus carota (Wild Carrot)	Υ		
18.		Daucus glochidiatus (Australian Carrot)	V		
19. 20.		Foeniculum vulgare (Fennel) Homalosciadium homalocarpum	Υ		
21.		Pentapeltis silvatica (Southern Pentapeltis)			
22.		Platysace compressa (Tapeworm Plant)			
23.		Platysace filiformis			
24.		Platysace pendula			
25.		Schoenolaena juncea			
26.		Xanthosia candida			
27.		Xanthosia eichleri		P4	
28.	6289	Xanthosia huegelii			
29.	6292	Xanthosia rotundifolia (Southern Cross)			
Araliacoso					
Araliaceae	6241	Hydrocotyle tetragenecama			
31.		Hydrocotyle tetragonocarpa Trachymene grandis			
32.		Trachymene gilosa (Native Parsnip)			
		Tradity mone productivation and imply			
Asparagace					
33.		Asparagus asparagoides (Bridal Creeper)	Y		
34.		Asparagus scandens	Y		
35.		Laxmannia jamesii (James' Paperlily)			
36.		Laxmannia minor			
37.		Lomandra prittanii			
38.		Lomandra caespitosa (Tufted Mat Rush)			
39. 40.		Lomandra integra Lomandra micrantha subsp. micrantha			
41.					
41.		Lomandra nigricans Lomandra pauciflora			
43.		Lomandra sericea (Silky Mat Rush)			
44.		Lomandra sonderi			
45.	.2.11	Lomandra sp.			
46.	1333	Thysanotus glaucifolius			
47.		Thysanotus multiflorus (Many-flowered Fringe Lily)			
Aspleniacea		Asplenium aethiopicum (Forked Spleenwort)			
		,			
Asteraceae				_	
49.		Angianthus drummondii		P3	
50.		Angianthus platycephalus			
51.	1833	Angianthus preissianus			







53. 7871 Brachyscome cilia 54. 7878 Brachyscome iben 55. 7909 Carduus pycnocep 56. 7937 Cirsium vulgare (S 57. 7939 Conyza bonariens 58. 20074 Conyza sumatrens 59. 44528 Coreopsis lanceoli 60. 7943 Cotula australis (C 61. 7945 Cotula coronopifol 62. 7947 Cotula turbinata (F 63. 7962 Dittrichia viscosa 64. 15137 Euchiton sphaerici 65. 7983 Gnaphalium indutt 66. 8086 Hypochaeris glabr 67. 8092 kiolaena viscosa (68. 1855 Lagenophora hueg 69. 8099 Leontodon saxatili 70. 17852 Leptorhynchos sca 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucident 73. 42281 Pithocarpa cordate		Naturalised	Conservation Code	¹ Endemic To Que Area
55. 7909 Carduus pycnoceg 56. 7937 Cirsium vulgare (S 57. 7939 Conyza bonariens 58. 20074 Conyza sumatrens 59. 44528 Coreopsis lanceole 60. 7943 Cotula coronopifol 61. 7945 Cotula coronopifol 62. 7947 Cotula turbinata (F 63. 7962 Dittrichia viscosa 64. 15137 Euchiton sphaeric 65. 7983 Graphalium indut 66. 8086 Hypochaeris glabri 67. 8092 Izontodon saxatili 67. 8092 Izontodon saxatili 70. 17852 Leptorhynchos sce 71. 8127 Olearia axillaris (C 72. 8143 Olearia axillaris (C 73. 42281 Pithocarpa ramosa 74. 42260 Pithocarpa ramosa 75. 8175 Podolepis gracilis 76. 8182 Podotheca angust	rulenta (Common Bristle Daisy) iliaris			
56. 7937 Cirsium vulgare (S 57. 7939 Conyza bonariens. 58. 20074 Conyza sumatrens. 59. 44528 Coreopsis lanceole. 60. 7943 Cotula australis (C 61. 7945 Cotula turbinata (F 63. 7962 Dittrichia viscosa 64. 15137 Euchiton sphaerica 65. 7983 Graphalium indutu 66. 8086 Hypochaeris glabr. 67. 8092 Izviolaena viscosa (B 68. 18585 Lagenophora hueg. 69. 8099 Leontodon saxatili. 70. 17852 Leptorhynchos sca. 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucidente. 73. 42281 Pithocarpa ramosa. 74. 42260 Pithocarpa ramosa. 75. 8175 Podolepis gracilis. 76. 8182 Podolepis qracilis. 77. 8189 Pseud				
57. 7939 Conyza bonariens. 58. 20074 Conyza sumatrens. 59. 44528 Coreopsis lanceoli. 60. 7943 Cotula australis (C. 61. 7945 Cotula turbinata (F. 62. 7947 Cotula turbinata (F. 63. 7962 Dittrichia viscosa 64. 15137 Euchiton sphaericula 65. 7983 Gnaphalium indute 66. 8086 Hypochaeris glabri 67. 8092 Iziolaena viscosa (P. 68. 18585 Lagenophora hueg 69. 8099 Leontodon saxatili 70. 17852 Leptorhynchos sca 71. 8127 Olearia axillaris (C. 72. 8143 Olearia paucidente 73. 42281 Pithocarpa ramosa 75. 8175 Podolepis gracilis 76. 8182 Podolepis gracilis 77. 8189 Pseudognaphalium 78. 8195 Quinetia	cephalus (Slender Thistle)	Y		
58. 20074 Conyza sumatrens 59. 44528 Coreopsis lanceole 60. 7943 Cotula australis (C 61. 7945 Cotula coronopifol 62. 7947 Cotula turbinata (F 63. 7962 Dittrichia viscosa 64. 15137 Euchiton sphaerici 65. 7983 Gnaphalium indutt 66. 8086 Hypochaeris glabri 67. 8092 Ixiolaena viscosa (68. 18585 Lagenophora hue 69. 8099 Leontodon saxatili 70. 17852 Leptorhynchos sca 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucidenta 73. 42281 Pithocarpa cordata 74. 42260 Pithocarpa ramosa 75. 8175 Podolepis gracilis 76. 8182 Podolepis gracilis 77. 8189 Pseucio elegans (i 80. 8208 Senecio multical	(Spear Thistle, Scotch Thistle)	Υ		
59. 44528 Coreopsis lanceole 60. 7943 Cotula australis (C 61. 7945 Cotula coronopifol 62. 7947 Cotula turbinata (F 63. 7962 Dittrichia viscosa 64. 15137 Euchiton sphaerici 65. 7983 Gnaphalium indutt 66. 8086 Hypochaeris glabr 67. 8092 Ixiolaena viscosa (68. 18585 Lagenophora hueg 69. 8099 Leontodon saxalili 70. 17852 Leptorhynchos sca 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucidente 73. 42281 Pithocarpa cordate 74. 42260 Pithocarpa cordate 75. 8175 Podolepis graciliis 76. 8182 Podolepis graciliis 77. 8189 Pseudognaphalium 78. 8195 Quinetia urvillei 79. 8204 Senecio multica	nsis (Flaxleaf Fleabane)	Υ		
60. 7943 Cotula australis (C 61. 7945 Cotula coronopifol 62. 7947 Cotula turbinata (F 63. 7962 Dittrichia viscosa 64. 15137 Euchiton sphaerici 65. 7983 Gnaphalium indutut 66. 8086 Hypochaeris glabr 67. 8092 Liviolaena viscosa (1 68. 18585 Lagenophora hueg 69. 8099 Leontodon saxatili 70. 17852 Leptorhynchos sca 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucidenta 73. 42281 Pithocarpa cordata 74. 42260 Pithocarpa ramosa 75. 8175 Podolepis gracilis 76. 8182 Podotheca angust 77. 8189 Pseudognaphalium 78. 8195 Quinetia urville 79. 8204 Senecio elegans (1 82. 20161 Senecio pinnatifoli 83. 25884 Senecio pinnatifoli 84. 8218 Senecio ramosissi 85. 8225 Siloxerus humifusu 86. 8231 Sonchus oleraceu 87. 25902 Symphyotrichum s 88. 38388 Ursinia anthemoid 89. 8257 Vellereophyton de 90. 8282 Waitzia suaveolen 91. 44861 Xerochrysum mac sytoniaceae 92. Asterella drummor ytoniaceae 94. 3240 Philonotis australia toryaceae 95. 17455 Anredera cordifolia 101. 3021 Lepidium bonarien 102. 1998 Lepidium didymun 103. 3042 Lepidium bonarien 104. 3048 Lobularia maritima 105. 3080 Stenopetalum robic iryaceae 106. 32330 Bryum argenteum 107. 32375 Gemmabryum chry	ensis	Υ		
61. 7945 Cotula coronopifol 62. 7947 Cotula turbinata (F 63. 7962 Dittrichia viscosa 64. 15137 Euchiton sphaerici 65. 7983 Gnaphalium indutt 66. 8086 Hypochaeris glabri 67. 8092 Ixiolaena viscosa (68. 18585 Lagenophora hueg 69. 8099 Leontodon saxatili 70. 17852 Leptorhynchos sca 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucidenta 73. 42281 Pithocarpa cordata 74. 42260 Pithocarpa ramosa 75. 8175 Podolepis gracilis 76. 8182 Podotheca anguit 77. 8189 Pseudognaphalium 78. 8195 Quinetia urvillei 79. 8204 Senecio elegans (6 80. 8208 Senecio multicauli 82. 20161 Senecio pinnatifoli 83. 25884 Senecio pinnatifoli 84. 8218 Senecio ramosissi 85. 8225 Siloxerus humifust 86. 8231 Sonchus oleraceus 87. 25902 Symphyotrichum s 88. 83888 Ursinia anthemoid 89. 8257 Vellereophyton de 90. 8282 Waitzia suaveolen 91. 44861 Xerochrysum mac. ytoniaceae 92. Asterella drummor sattramiaceae 93. 32327 Breutelia affinis 94. 32409 Philonotis australie oryaceae 95. 17455 Anredera cordifolia 101. 3021 Lepidium bonarien 102. 1998 Lepidium didymun 103. 3042 Lepidium bonarien 104. 3048 Lobularia maritima 105. 3080 Stenopetalum robic iryaceae 106. 32330 Bryum argenteum 107. 32375 Gemmabryum chrif	eolata (Common Tickseed, Showy Tickseed, Garden Coreopsis)	Υ		
62. 7947 Cotula turbinata (F 63. 7962 Dittrichia viscosa 64. 15137 Euchiton sphaerici 65. 7983 Gnaphalium indutt 66. 8086 Hypochaeris glabr 67. 8092 Ixiolaena viscosa 68. 18585 Lagenophora hueg 69. 8099 Leontodon saxatili 70. 17852 Leptorhynchos sca 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucidenta 73. 42281 Pithocarpa cordata 74. 42260 Pithocarpa ramosa 75. 8175 Podolepis gracilis 76. 8182 Podotheca angust 77. 8189 Pseudognaphalium 78. 8195 Quinetia urvillei 79. 8204 Senecio hispidulus 81. 20663 Senecio multicauli 82. 20161 Senecio pinnatifoli 83. 25884 Senecio pinnatifoli 83. 25884 Senecio pinnatifoli 84. 8218 Senecio ramosissi 85. 8225 Siloxerus humifust 86. 8231 Sonchus oleraceus 87. 25902 Symphyotrichum s 88. 38388 Ursinia anthemoid 89. 8257 Vellereophyton de 90. 8282 Waltzia suaveolen 91. 44861 Xerochrysum mac 191. 44861 Xerochrysum mac 192. Asterella drummor 192. 1938 Lepidium bonarien 193. 3240 Philonotis australia 194. 3041 Lepidium bonarien 102. 1998 Lepidium bonarien 102. 1998 Lepidium didymun 103. 3042 Lepidium bonarien 102. 19989 Lepidium didymun 103. 3042 Lepidium pseudota 104. 3048 Lobularia maritima 105. 3080 Stenopetalum robicityaceae 106. 32330 Bryum argenteum 107. 32375 Gemmabryum chriftia 107.	(Common Cotula)			
63. 7962 Dittrichia viscosa 64. 15137 Euchiton sphaerici 65. 7983 Gnaphalium indutt 66. 8086 Hypochaeris glabri 67. 8092 Ixiolaena viscosa (68. 18585 Lagenophora hue; 69. 8099 Leontodon saxalili 70. 17852 Leptorhynchos sci 71. 8127 Olearia axillaris (72. 8143 Olearia paucidente 73. 42281 Pithocarpa cordate 74. 42260 Pithocarpa ramose 75. 8175 Podolepis gracilis 76. 8182 Podotheca angust 77. 8189 Pseudognaphalium 78. 8195 Quinetia urvillei 79. 8204 Senecio elegans (80. 8208 Senecio hispidulus 81. 20663 Senecio multicauli 82. 20161 Senecio pinnatifoli 83. 25884 Senecio ramosissi 84. 8218 Senecio ramosissi 85. 8225 Siloxerus humifust 86. 8231 Sonchus oleraceus 87. 25902 Symphyotrichum s 88. 3838 Ursinia anthemoid 89. 8257 Vellereophyton de 90. 8282 Waltzia suaveolen 91. 44861 Xerochrysum mac ytoniaceae 92. Asterella drummor artramiaceae 93. 32327 Breutelia affinis 94. 32409 Philonotis australia asellaceae 95. 17455 Anredera cordifolia 1074 Senecio 10989 Lepidium bonarien 1079 Sepana 1270 Borya longiscapa 88. 1273 Borya longiscapa 98. 1273 Borya sphaerocep rassicaceae 99. 3002 Cakile maritima (S 100. 3011 Diplotaxis muralis 101. 3021 Lepidium bonarien 102. 19989 Lepidium didymun 103. 3042 Lepidium pseudota 104. 3048 Lobularia maritima 105. 3080 Stenopetalum robu	ifolia (Waterbuttons)	Υ		
64. 15137 Euchiton sphaerici 65. 7983 Gnaphalium indutt 66. 8086 Hypochaeris glabri 67. 8092 Ixiolaena viscosa (68. 18585 Lagenophora hueg 69. 8099 Leontodon saxalili 70. 17852 Leptorhynchos sce 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucidente 73. 42281 Pithocarpa cordate 74. 42260 Pithocarpa cordate 75. 8175 Podolepis gracilis 76. 8182 Podotheca angust 77. 8189 Pseudognaphalium 78. 8195 Quinetia urvillei 79. 8204 Senecio elegans (i 80. 8208 Senecio hispidulus 81. 20663 Senecio multicaulil 82. 20161 Senecio prinnatifoli 83. 25884 Senecio prinnatifoli 84. 8218 Senecio ramosissi 85. 8225 Siloxerus humifuss 86. 8231 Sonchus oleraceus 87. 25902 Symphyotrichum s 88. 3838 Ursinia anthemoid 89. 8257 Vellereophyton de 90. 8282 Waltzia suaveolen 91. 44861 Xerochrysum mac ytoniaceae 92. Asterella drummor artramiaceae 93. 32327 Breutelia affinis 94. 32409 Philonotis australia asellaceae 95. 17455 Anredera cordifolia oraginaceae 96. 6681 Echium plantagine oryaceae 97. 1270 Borya longiscapa 98. 1273 Borya sphaerocep rassicaceae 99. 3002 Cakile maritima (S 90. 3011 Diplotaxis muralis 101. 3021 Lepidium bonarien 102. 19989 Lepidium didymun 103. 3042 Lepidium pseudota 104. 3048 Lobularia maritima 105. 3080 Stenopetalum robu	(Funnel Weed)	Υ		
65. 7983 Gnaphalium indutt. 66. 8086 Hypochaeris glabri. 67. 8092 Ixiolaena viscosa (68. 18585 Lagenophora hueg. 69. 8099 Leontodon saxatili. 70. 17852 Leptorhynchos soc. 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucidente. 73. 42281 Pithocarpa condate. 74. 42260 Pithocarpa ramose. 75. 8175 Podolepis gracilis. 76. 8182 Podotheca angust. 77. 8189 Pseudognaphalium. 78. 8195 Quinetia urvillei. 79. 8204 Senecio elegans (i. 82. 20161 Senecio pinnatifoli. 81. 20663 Senecio multicauli. 82. 20161 Senecio pinnatifoli. 83. 25884 Senecio pinnatifoli. 84. 8218 Senecio ramosissi. 85. 8225 Siloxerus humifust. 86. 8231 Sonchus oleraceu. 87. 25902 Symphyotrichum s. 88. 3838 Ursinia anthemoid. 89. 8257 Vellereophyton de. 90. 8282 Waitzia suaveolen. 91. 44861 Xerochrysum mac. 94. 32409 Philonotis australie. 95. 17455 Anredera cordifolia. 96. 6681 Echium plantagine. 97. 1270 Borya longiscapa. 98. 1273 Borya sphaerocep. 98. 1273 Borya sphaerocep. 99. 3002 Cakile maritima (S. 1998) Lepidium bonarien. 101. 3021 Lepidium bonarien. 102. 19989 Lepidium didymum. 103. 3042 Lepidium pseudote. 104. 3048 Lobularia maritima. 105. 3080 Stenopetalum robi. 107. 32375 Gemmabryum chry.	a	Υ		
66. 8086 Hypochaeris glabri 67. 8092 Ixiolaena viscosa (68. 18585 Lagenophora hueg 69. 8099 Leontodon saxatili 70. 17852 Leptorhynchos sca 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucidente 73. 42281 Pithocarpa cordate 74. 42260 Pithocarpa ramose 75. 8175 Podolepis gracilis 76. 8182 Podotheca angust 77. 8189 Pseudognaphalium 78. 8195 Quinetia urvillei 79. 8204 Senecio elegans (i 80. 8208 Senecio multicauli 82. 20161 Senecio pinnatifoli 83. 25884 Senecio multicauli 84. 8218 Senecio muniticali 85. 8225 Siloxerus humifuse 86. 8231 Sonchus oleraceus 87. 25902 Symphyotrichum s 88. 3838 Ursinia anthemoid 89. 8257 Vellereophyton de 90. 8282 Waitzia suaveolen 91. 44861 Xerochrysum mac ytoniaceae 92. Asterella drummor artramiaceae 93. 32327 Breutelia affinis 94. 32409 Philonotis australie asellaceae 95. 17455 Anredera cordifolia oraginaceae 96. 6681 Echium plantagine oryaceae 97. 1270 Borya longiscapa 98. 1273 Borya sphaerocep rassicaceae 99. 3002 Cakile maritima (S 100. 3011 Diplotaxis muralis 101. 3021 Lepidium bonarien 102. 19989 Lepidium didymun 103. 3042 Lepidium pseudote 104. 3048 Lobularia maritima 105. 3080 Stenopetalum robu	ricus			
67. 8092	lutum (Tiny Cudweed)			
68. 18585 Lagenophora hue 69. 8099 Leontodon saxatili 70. 17852 Leptorhynchos sca 71. 8127 Olearia axillaris (C 72. 8143 Olearia paucidente 73. 42281 Pithocarpa cordate 74. 42260 Pithocarpa ramose 75. 8175 Podolepis gracilis 76. 8182 Podotheca angust 77. 8189 Pseudognaphalium 78. 8195 Quinetia urvillei 79. 8204 Senecio elegans (i 80. 8208 Senecio multicauli 82. 20161 Senecio pinnatifoli 83. 25884 Senecio pinnatifoli 84. 8218 Senecio ramosissi 85. 8225 Siloxerus humifust 86. 8231 Sonchus oleraceus 87. 25902 Symphyotrichum s 88. 38388 Ursinia anthemoid 89. 8257 Vellereophyton de 90. 8282 Waitzia suaveolen 91. 44861 Xerochrysum mac. **Vtoniaceae** 92. Asterella drummor **ptoniaceae** 93. 32327 Breutelia affinis 94. 32409 Philonotis australie asellaceae 95. 17455 Anredera cordifolia 107. 3021 Lepidium bonarien 102. 19989 Lepidium didymun 103. 3042 Lepidium pseudote 104. 3048 Lobularia maritima 105. 3080 Stenopetalum robu **tyaceae** 106. 32330 Bryum argenteum 107. 32375 Gemmabryum chry 2002 Cambaryum chry 2003 Stenopetalum robu **tyaceae** 106. 32330 Bryum argenteum 107. 32375 Gemmabryum chry 2006 Senecio pundicion 2017 Senecio pundicion 2018 Senecio pundicion 2019 Senecio pundicion 202 Senecio pundicion 203 Senecio multicauli 204 Senecio pundicion 205 Senecio multicauli 206 Senecio pundicion 206 Senecio multicauli 207 Senecio pundicion 208 Senecio multicauli 209 Senecio pundicion 2010 Senecio pundicion 2010 Senecio multicauli 2010 Senecio pundicion 2011 Diplotaxis muralis 2012 Lepidium bonarien 2013 Senecio pundicion 2014 Senecio pundicion 2015 Senecio pundicion 2016 Senecio pundicion 2017 Senecio multicau 2017 Senecio multication 2018 Senecio pundicion 2018 Senecio pundicion 2019 Senecio pundicion 2019 Senecio pundicion 2019 Senecio pundicion 2020 Senecio multication 203 Senecio multication 204 Senecio pundicion 205 Senecio multication 206 Senecio pundicion 207 Senecio multication 208 Senecio pundicion 209 Senecio pundicion 2018 Senecio pundicion 2018 Senecio pundicion 2019 Senecio pundicion 2019 Senecio pund	abra (Smooth Catsear)	Υ		
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106. 32330 Bryum argenteum 107. 32375 Gemmabryum chr	obustum			
106. 32330 Bryum argenteum 107. 32375 Gemmabryum chr				
107. 32375 Gemmabryum chr	ım			
. 30. 32310 Genninabiyulli ülci				
109. 32380 Gemmabryum pad				
	•			
110. 32404 Ochiobryum bland				Υ
111. 32417 Ptychostomum ang	angustifolium iodiversity, Conservation and Attractions and the Western Australian Museum.	Departme	ent of Biodiversity, ation and Attractions	WESTE AUSTR



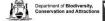
	Name ID	Species Name	Natural	ised Conservat	ion Code ¹ Endemic To C Area
112.	32424	Rosulabryum albolimbatum			
113.	44608	Rosulabryum billarderii			
114.	32429	Rosulabryum torquescens			
ampanula		Laberta anno Alarta Laberta			
115.		Lobelia anceps (Angled Lobelia)			
116.		Lobelia gibbosa (Tall Lobelia)			
117.		Lobelia heterophylla (Wing-seeded Lobelia)			
118.		Lobelia rhombifolia (Tufted Lobelia)			
119.	7408	Lobelia tenuior (Slender Lobelia)			
120.	36840	Lobelia tenuior subsp. tenuior			
Caprifoliad	2020				
121.		Centranthus ruber subsp. ruber	Υ		
121.	33322	Centrantinus ruber subsp. ruber	Y		
Caryophyll	laceae				
122.		Cerastium balearicum	Υ		
123.		Corrigiola litoralis (Strapwort)	Υ		
124.		Polycarpon tetraphyllum (Fourleaf Allseed)	Y		
125.		Sagina apetala (Annual Pearlwort)	Y		
126.		Silene gallica var. quinquevulnera			
120.	11003	Silerie galiica var. quiriquevuiriera	Υ		
Casuarina	ceae				
127.	1724	Allocasuarina decussata (Karri She-oak)			
128.		Allocasuarina humilis (Dwarf Sheoak)			
Celastrace	ae				
129.	4733	Stackhousia monogyna			
130.	9070	Stackhousia pubescens (Downy Stackhousia)			
O4 I !					
Centrolepi					
131.		Aphelia cyperoides			
132.	1121	Centrolepis aristata (Pointed Centrolepis)			
133.	1133	Centrolepis pilosa			
134.	1134	Centrolepis polygyna (Wiry Centrolepis)			
	-11				
-	ellaceae	October 19th Control			
Jepnalozie 135.	ellaceae	Cephaloziella varians			
135.		Cephaloziella varians			
135. Ceramiace	ae				
135.	ae	Cephaloziella varians Spyridia filamentosa			
135. Ceramiace	27310				
135. Ceramiace 136.	27310 iaceae		Υ		
135. Ceramiace 136. Chenopod	27310 liaceae 2483	Spyridia filamentosa	Y Y		
135. Ceramiace 136. Chenopod 137.	27310 liaceae 2483 2494	Spyridia filamentosa Chenopodium album (Fat Hen)			
135. Ceramiace 136. Chenopod 137. 138. 139.	27310 liaceae 2483 2494 33480	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot)			
135. Ceramiace 136. Chenopod 137. 138. 139. 140.	27310 liaceae 2483 2494 33480 2578	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush)			
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141.	27310 iiaceae 2483 2494 33480 2578 11341	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata			
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142.	27310 liaceae 2483 2494 33480 2578 11341 48433	Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicomia blackiana			
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141.	27310 liaceae 2483 2494 33480 2578 11341 48433	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata			
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135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicomia blackiana Threlkeldia diffusa (Coast Bonefruit)			
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 eae	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Sattbush) Rhagodia baccata subsp. baccata Salicomia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia)			
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 9ae	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba			
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135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba			
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135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula	27310 iiaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora			
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135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148.	27310 iiaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicomia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace	27310 iiaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory)	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149.	27310 iiaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicomia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop)	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151. Cyperacea	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata Crassula natans var. minus	Y		
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135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151. Cyperacea 152. 153. 154.	27310 iiaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706 ee 739 741 743	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata Crassula natans var. minus Baumea acuta (Pale Twig-rush) Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush)	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151. Cyperacea 152. 153. 154. 155.	27310 iiaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706 te 739 741 743 744	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata Crassula natans var. minus Baumea acuta (Pale Twig-rush) Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea laxa	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151. Cyperacea 152. 153. 154. 155. 156.	27310 iiaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706 te 739 741 743 744 745	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicomia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata Crassula natans var. minus Baumea acuta (Pale Twig-rush) Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea laxa Baumea preissii	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151. Cyperacea 152. 153. 154. 155. 156. 157.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706 ne 739 741 743 744 745 747	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicomia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata Crassula natans var. minus Baumea acuta (Pale Twig-rush) Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea preissii Baumea rubiginosa	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151. Cyperacea 152. 153. 154. 155. 156. 157. 158.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706 te 739 741 743 744 745 747	Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicomia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata Crassula natans var. minus Baumea acuta (Pale Twig-rush) Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea preissii Baumea rubiginosa Baumea vaginalis (Sheath Twigrush)	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151. Cyperacea 152. 153. 154. 155. 156. 157. 158. 159.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706 te 739 741 743 744 745 747 748	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata Crassula natans var. minus Baumea acuta (Pale Twig-rush) Baumea airiculata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea preissii Baumea rubiginosa Baumea vaginalis (Sheath Twigrush) Chorizandra enodis (Black Bristlerush)	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151. Cyperacea 152. 153. 154. 155. 156. 157. 158.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 eae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706 te 739 741 743 744 745 747 748	Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicomia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata Crassula natans var. minus Baumea acuta (Pale Twig-rush) Baumea articulata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea preissii Baumea rubiginosa Baumea vaginalis (Sheath Twigrush)	Y		
135. Ceramiace 136. Chenopod 137. 138. 139. 140. 141. 142. 143. Colchicace 144. 145. 146. Convolvula 147. 148. Crassulace 149. 150. 151. Cyperacea 152. 153. 154. 155. 156. 157. 158. 159.	27310 liaceae 2483 2494 33480 2578 11341 48433 2644 8ae 1385 12072 1402 aceae 6616 6630 eae 3137 11563 15706 le 739 741 743 744 745 747 748 763 768	Spyridia filamentosa Chenopodium album (Fat Hen) Chenopodium murale (Nettle-leaf Goosefoot) Dysphania pumilio (Clammy Goosefoot) Rhagodia baccata (Berry Saltbush) Rhagodia baccata subsp. baccata Salicornia blackiana Threlkeldia diffusa (Coast Bonefruit) Burchardia multiflora (Dwarf Burchardia) Wurmbea dioica subsp. alba Wurmbea sinora Dichondra repens (Kidney Weed) Ipomoea indica (Morning Glory) Crassula colorata (Dense Stonecrop) Crassula colorata var. colorata Crassula natans var. minus Baumea acuta (Pale Twig-rush) Baumea airiculata (Jointed Rush) Baumea juncea (Bare Twigrush) Baumea preissii Baumea rubiginosa Baumea vaginalis (Sheath Twigrush) Chorizandra enodis (Black Bristlerush)	Y		







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
			Υ		
163.		Evandra aristata			
164.		Ficinia nodosa (Knotted Club Rush)			
165.		Gahnia sclerioides		P4	
166. 167.		Gymnoschoenus anceps Isolepis cernua (Nodding Club-rush)			
168.		Isolepis cernua (Nobuling Glub-rush)			
169.		Isolepis cernua var. cernua Isolepis cernua var. setiformis			
170.		Isolepis congrua			
171.		Isolepis cyperoides			
172.		Isolepis inundata (Swamp Club Rush)			
173.		Isolepis marginata (Coarse Club-rush)			
174.		Isolepis prolifera (Budding Club-rush)	Υ		
175.	925	Lepidosperma angustatum			
176.	932	Lepidosperma effusum (Spreading Sword-sedge)			
177.	933	Lepidosperma gladiatum (Coast Sword-sedge, Kerbin)			
178.	934	Lepidosperma gracile (Slender Sword Sedge)			
179.		Lepidosperma sp.			
180.	945	Lepidosperma squamatum			
181.		Lepidosperma striatum			
182.		Lepidosperma tetraquetrum			
183.		Mesomelaena graciliceps			
184.		Mesomelaena tetragona (Semaphore Sedge)			
185.		Schoenus brevisetis			
186. 187.		Schoenus caespititius			
188.		Schoenus cruentus Schoenus curvifolius			
189.		Schoenus efoliatus			
190.		Schoenus grandiflorus (Large Flowered Bogrush)			
191.		Schoenus maschalinus			
192.		Schoenus multiglumis			
193.		Schoenus nitens (Shiny Bog-rush)			
194.		Schoenus odontocarpus			
195.	1017	Schoenus subbulbosus			
196.	1018	Schoenus subfascicularis			
197.	1020	Schoenus sublateralis			
198.	1021	Schoenus sublaxus			
199.	1034	Tetraria capillaris (Hair Sedge)			
200.		Tetraria octandra			
201.		Tetraria sp. Blackwood River (A.R. Annels 3043)		P3	
202.	35579	Tetraria sp. Jarrah Forest (R. Davis 7391)			
Dasypogona	ceae				
203.	1212	Baxteria australis			
204.	1218	Dasypogon bromeliifolius (Pineapple Bush)			
205.	1221	Kingia australis (Kingia, Pulonok)			
Dennstaedtia	ceae				
206.		Histiopteris incisa			
Dierensess					
Dicranaceae 207.	22225	Campylopus bicolor			
207.		Campylopus bicolor var. bicolor			
209.		Campylopus introflexus	Υ		
210.		Dicranoloma diaphanoneuron	•		
211.		Leucobryum subchlorophyllosum			
Dilloniossos					
Dilleniaceae 212.	5100	Hibbertia amplexicaulis			
213.		Hibbertia commutata			
214.		Hibbertia cuneiformis (Cutleaf Hibbertia)			
215.		Hibbertia cunninghamii			
216.		Hibbertia depressa			
217.		Hibbertia furfuracea			
218.		Hibbertia grossulariifolia			
219.	5135	Hibbertia hypericoides (Yellow Buttercups)			
220.	19687	Hibbertia notibractea			
221.	5154	Hibbertia perfoliata			
222.	5155	Hibbertia pilosa (Hairy Guinea Flower)			
223.		Hibbertia pulchra			
224.		Hibbertia racemosa (Stalked Guinea Flower)			
225.	5169	Hibbertia serrata (Serrate Leaved Guinea Flower)	, 6ta) .		
			Department Conservation	of Biodiversity,	WESTERN







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
Ditrichaceae					
226.		Ceratodon purpureus subsp. convolutus			
227. 228.		Eccremidium pulchellum			
228.	32478	Pleuridium nervosum var. nervosum			
roseraceae	•				
229.	48751	Drosera drummondii			
230.	13218	Drosera erythrogyne			
231.	3095	Drosera erythrorhiza (Red Ink Sundew)			
232.		Drosera fimbriata (Manypeaks Sundew)		P4	
233.		Drosera microphylla (Golden Rainbow)			
234.		Drosera modesta (Modest Rainbow)			
235.		Drosera myriantha (Star Rainbow)			
236.		Drosera pallida (Pale Rainbow)			
237.		Drosera platypoda (Fan-leaved Sundew)			
238.		Drosera pulchella (Pretty Sundew)			
239.		Drosera stolonifera (Leafy Sundew)			
240.	8914	Drosera sulphurea (Sulphur-flowered Sundew)			
aeocarpac	eae				
241.	4525	Platytheca juniperina			
242.	4526	Tetratheca affinis			
243.	4536	Tetratheca hispidissima			
244.	4547	Tremandra diffusa			
245.	4548	Tremandra stelligera			
remosynac	eae				
246.		Eremosyne pectinata			
ricaceae					
247.		Acrotriche cordata (Coast Ground Berry)			
248.		Andersonia caerulea (Foxtails)			
249.		Andersonia micrantha			
250.		Andersonia sp. Frankland (W. Jackson BJ8)			
251.		Andersonia sp. Virolens (G.J. Keighery 12000)		P3	
252.		Andersonia sprengelioides			
253.		Astroloma drummondii			
254.		Cosmelia rubra (Spindle Heath)			
255. 256.		Dielsiodoxa lycopodioides	V		Υ
		Erica lusitanica	Υ		Ţ
257. 258.		Leucopogon australis (Spiked Beard-heath)			
250.		Leucopogon cordatus			
260.		Leucopogon distans			
261.		Leucopogon glabellus			
262.		Leucopogon hirsutus Leucopogon interstans			
263.		· -			
264.		Leucopogon obovatus Leucopogon obovatus subsp. obovatus			
265.		Leucopogon obovatus subsp. revolutus			
266.		Leucopogon paradoxus			
267.		Leucopogon parviflorus (Coast Beard-heath)			
268.		Leucopogon propinquus			
269.		Leucopogon racemulosus			
270.		Leucopogon reflexus (Heart-leaf Beard-heath)			
271.		Leucopogon rubricaulis			
272.		Leucopogon sp. Southern Forests (B.G. Hammersley 1000)			
273.		Leucopogon sp. Walpole (R.J. Cranfield 10940)			
274.		Leucopogon unilateralis			
275.		Leucopogon verticillatus (Tassel Flower)			
276.		Lysinema ciliatum (Curry Flower)			
277.		Lysinema conspicuum			
278.		Lysinema pentapetalum			
279.		Sphenotoma capitata			
280.		Sphenotoma gracilis (Swamp Paper-heath)			
281.		Sphenotoma parviflora			
282.		Sphenotoma squarrosa			
		· · · · · · · · · · · · · · · · · · ·			
uphorbiace					
·	4585	Amperea ericoides			
283.		· ·			
284.	4587	Amperea protensa			
	4587 13101	Amperea protensa Amperea simulans Calycopepius oligandrus			







		Species Name	Naturalised	Conservation Code	Area
287. 288.		Euphorbia paralias (Sea Spurge) Ricinocarpos glaucus	Υ		
	4093	Number pos gradeas			
baceae					
289. 290.		Acacia alata var. alata Acacia browniana			
290.		Acacia browniana var. browniana			
291.		Acacia cochlearis (Rigid Wattle)			
293.		Acacia cyclops (Coastal Wattle)			
294.		Acacia divergens			
295.		Acacia gilbertii			
296.		Acacia hastulata			
297.	18217	Acacia iteaphylla	Υ		
298.	3424	Acacia littorea			
299.	3428	Acacia luteola			
300.	3453	Acacia myrtifolia			
301.	35624	Acacia pentadenia subsp. pentadenia			
302.		Acacia provincialis			Y
303.		Acacia pulchella (Prickly Moses)			
304.		Acacia pulchella var. pulchella			
305.		Acacia saligna subsp. stolonifera			
306.		Acacia scalpelliformis			
307.		Acacia tetragonocarpa			
308. 309.		Acacia urophylla			
309.		Acacia varia var. varia Aotus intermedia			
310.		Aotus passerinoides			
312.		Bossiaea aquifolium subsp. laidlawiana			
313.		Bossiaea dentata			
314.		Bossiaea linophylla			
315.		Bossiaea praetermissa			
316.	3718	Bossiaea rufa			
317.	3723	Bossiaea webbii (Water Bush)			
318.	10861	Callistachys lanceolata (Wonnich)			
319.	13112	Chorizema aciculare subsp. aciculare			
320.	3754	Chorizema diversifolium			
321.	3757	Chorizema glycinifolium			
322.		Chorizema ilicifolium (Holly Flame Pea)			
323.		Chorizema reticulatum (Showy Flame Pea)			
324.		Chorizema retrorsum			
325.		Chorizema rhombeum Daviesia flexuosa			
326. 327.		Daviesia inflata			
328.		Dipogon lignosus (Dolichos Pea)	Υ		
329.		Eutaxia myrtifolia	'		
330.		Eutaxia parvifolia			
331.		Gastrolobium bilobum (Heart Leaf Poison)			
332.		Gastrolobium brownii			
333.		Gastrolobium coriaceum			
334.		Gastrolobium sericeum			
335.		Gompholobium capitatum			
336.	10909	Gompholobium confertum			
337.	3950	Gompholobium knightianum			
338.	3954	Gompholobium polymorphum			
339.	11083	Gompholobium scabrum			
340.		Gompholobium tomentosum (Hairy Yellow Pea)			
341.		Gompholobium venustum (Handsome Wedge-pea)			
342.		Gompholobium villosum			
343.		Hardenbergia comptoniana (Native Wisteria)			
344.		Hovea chorizemifolia (Holly-leaved Hovea)			
345.		Hovea elliptica (Tree Hovea)			
346.		Isotropis cuneifolia (Granny Bonnets)			
347.		Jacksonia horrida			
348. 349.		Jacksonia spinosa Kennedia carinata			
349. 350.		Kennedia carinata Kennedia coccinea (Coral Vine)			
350.		Kennedia coccinea (Corai Vine) Kennedia coccinea subsp. calcaria			
352.		Kennedia glabrata (Northcliffe Kennedia)		Т	
353.		Lathyrus tingitanus (Tangier Pea)	Υ	1	
354.		Latrobea brunonis			
		Latrobea genistoides			
355.				nt of Biodiversity,	WEST AUST



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
356.	4059	Lotus angustissimus (Narrowleaf Trefoil)	Υ		
357.	8564	Lotus subbiflorus	Υ		
358.	4063	Lotus uliginosus (Greater Lotus)	Υ		
359.	4072	Medicago arabica (Spotted Medic)	Υ		
360.	4076	Medicago lupulina (Black Medic)	Υ		
361.	4079	Medicago polymorpha (Burr Medic)	Υ		
362.	4085	Melilotus indicus	Υ		
363.	4096	Mirbelia ovata			
364.	4113	Omithopus compressus (Yellow Serradella)	Υ		
365.		Paraserianthes lophantha subsp. lophantha			
366.		Phyllota barbata			
367.		Psoralea pinnata (African Scurfpea)	Y		
368.		Pultenaea barbata			
369.		Pultenaea reticulata			
370.		Pultenaea tenuifolia	.,		
371.		Robinia pseudoacacia	Y		
372.		Sphaerolobium drummondii			
373.		Sphaerolobium grandiflorum Sphaerolobium bygrankilum			
374.		Sphaerolobium hygrophilum			
375.		Sphaerolobium medium			
376.		Sphaerolohium rostratum			
377. 378.		Sphaerolobium rostratum Templetonia retusa (Cockies Tonques)			
378. 379.		Templetonia retusa (Cockies Tongues) Trifolium angustifolium var. angustifolium	Υ		
379. 380.		Trifolium angustifolium var. angustifolium Trifolium arvense var. arvense	Y		
381.		Trifolium campestre var. campestre (Hop Clover)	Y		
382.		Trifolium cernuum (Drooping Flower Clover)	Y		
383.		Trifolium dubium (Suckling Clover)	Y		
384.		Trifolium ligusticum (Ligurian Clover)	Y		
385.		Trifolium striatum (Knotted Clover)	Y		
386.		Trifolium subterraneum (Subterranean Clover)	Y		
387.		Trifolium tomentosum var. tomentosum	Y		
388.		Ulex europaeus (Gorse)	Y		
389.		Vicia hirsuta (Hairy Vetch)	Y		
390.		Vicia sativa subsp. nigra	Y		
Fabroniacea					
391.		Ischyrodon lepturus			
Fissidentace	20				
392.		Fissidens curvatus			
393.		Fissidens tenellus			
Funariaceae 394.	32354	Entosthodon productus			
Gentianacea	е				
395.	6539	Centaurium erythraea (Common Centaury)	Υ		
396.	6542	Centaurium tenuiflorum	Υ		
397.	6543	Cicendia filiformis (Slender Cicendia)	Υ		
398.	41660	Schenkia australis			
Geraniaceae					
399.		Geranium retrorsum			
400.		Pelargonium australe (Wild Geranium)			
401.		Pelargonium capitatum (Rose Pelargonium)	Υ		
402.		Pelargonium drummondii			
403.		Pelargonium littorale			
Goodeniacea					
404.		Anthotium humile (Dwarf Anthotium)			
405.		Dampiera hederacea (Karri Dampiera)			
406.		Dampiera leptoclada (Slender-shooted Dampiera)			
407.		Dampiera linearis (Common Dampiera)			
408.		Dampiera pedunculata Geodonia esteniana			
409.		Goodenia eatoniana Goodenia lostoclada (Thin stammed Goodenia)			
410.		Goodenia leptoclada (Thin-stemmed Goodenia)			
411.		Lechenaultia expansa Scaevola glandulifera (Viscid Hand-flower)			
412.		Scaevola glandulifera (Viscid Hand-flower)			
413.		Scaevola globulifera			
414. 415.		Scaevola microphylla (Small-leaved Scaevola) Scaevola nitida (Shining Fanflower)			
416.		Scaevola fillida (Silililing Familower) Scaevola phlebopetala (Velvet Fanflower)			
710.	7004	South a prinopolaid (Torrot I dimorrot)	Department	of Blodiversity,	WESTERN
tureMap is a collaborativ	e project of	the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.	Conservati	on and Attractions	WESTERN AUSTRALI







	.vanie iD	Species Name	Naturalised	Conservation Code	Area
417.		Scaevola striata (Royal Robe)			
418.	13175	Scaevola striata var. striata			
419.	7651	Selliera radicans		P1	
420.	7662	Velleia macrophylla (Large-leaved Velleia)			
421.	7665	Velleia trinervis			
yrostemon	naceae				
422.	2787	Gyrostemon sheathii			
aemodora					
423.	1407	Anigozanthos flavidus (Tall Kangaroo Paw)			
424.	1413	Anigozanthos preissii (Albany Catspaw)			
425.	11826	Conostylis aculeata subsp. aculeata			
426.	1454	Conostylis setigera (Bristly Cottonhead)			
427.	1468	Haemodorum laxum			
428.	1474	Haemodorum sparsiflorum			
429.	1475	Haemodorum spicatum (Mardja)			
430.		Phlebocarya ciliata			
431.		Tribonanthes australis (Southern Tiurndin)			
		The state of the s			
laloragacea	ae				
432.	16746	Gonocarpus benthamii subsp. benthamii			
433.	6183	Haloragodendron racemosum (Shrubby Raspwort)			
ledwigiacea	ae				
434.		Hedwigia ciliata			
435.		Hedwigidium integrifolium			
436.		Rhacocarpus purpurascens			
400.	52 7 21	aaaaaa paa parparaaaana			
lemerocalli	idaceae				
437.	1285	Corynotheca micrantha (Sand Lily)			
438.	12012	Corynotheca micrantha var. panda			
439.	1297	Johnsonia lupulina (Hooded Lily)			
440.		Stypandra glauca (Blind Grass)			
441.		Tricoryne elatior (Yellow Autumn Lily)			
Hypnaceae					
442.	32394	Hypnum cupressiforme			
ridaceae					
443.	1514	Crocosmia x crocosmiiflora	Υ		
444.	1524	Gladiolus undulatus (Wild Gladiolus)	Υ		
445.	1532	Ixia maculata (Yellow Ixia)	Υ		
446.	1540	Orthrosanthus polystachyus (Many Spike Orthrosanthus)			
447.	1550	Patersonia occidentalis (Purple Flag, Koma)			
448.	1551	Patersonia pygmaea (Pygmy Patersonia)			
449.	14432	Patersonia umbrosa var. umbrosa			
luncaceae					
450.	1177	Juncus articulatus (Jointed Rush)	Υ		
451.	1178	Juncus bufonius (Toad Rush)	Υ		
452.	1179	Juncus caespiticius (Grassy Rush)			
453.	1180	Juncus capitatus (Capitate Rush)	Υ		
454.		Juncus kraussii subsp. australiensis			
455.		Juncus microcephalus	Υ		
456.		Juncus oxycarpus	Y		
457.		Juncus pallidus (Pale Rush)			
457.					
		Juncus planifolius (Broadleaf Rush)	V		
459.	1196	Juncus usitatus (Common Rush)	Y		
luncaginace	eae				
	151	Triglochin striata			
460.					
	6855	Hemigenia humilis			
amiaceae 461.					
461. 462.	6856	Hemigenia incana (Silky Hemigenia)			
461. 462. 463.	6856 6865	Hemigenia incana (Silky Hemigenia) Hemigenia podalyrina	V		
461. 462. 463. 464.	6856 6865 6883	Hemigenia incana (Silky Hemigenia) Hemigenia podalyrina Mentha pulegium (Pennyroyal)	Y		
461. 462. 463. 464. 465.	6856 6865 6883 6927	Hemigenia incana (Silky Hemigenia) Hemigenia podalyrina Mentha pulegium (Pennyroyal) Prunella vulgaris (Self Heal)	Υ		
461. 462. 463. 464. 465. 466.	6856 6865 6883 6927 6930	Hemigenia incana (Silky Hemigenia) Hemigenia podalyrina Mentha pulegium (Pennyroyal) Prunella vulgaris (Self Heal) Stachys arvensis (Staggerweed)			
461. 462. 463. 464. 465.	6856 6865 6883 6927 6930	Hemigenia incana (Silky Hemigenia) Hemigenia podalyrina Mentha pulegium (Pennyroyal) Prunella vulgaris (Self Heal)	Υ		
461. 462. 463. 464. 465. 466. 467.	6856 6865 6883 6927 6930	Hemigenia incana (Silky Hemigenia) Hemigenia podalyrina Mentha pulegium (Pennyroyal) Prunella vulgaris (Self Heal) Stachys arvensis (Staggerweed)	Υ		
461. 462. 463. 464. 465. 466. 467.	6856 6865 6883 6927 6930	Hemigenia incana (Silky Hemigenia) Hemigenia podalyrina Mentha pulegium (Pennyroyal) Prunella vulgaris (Self Heal) Stachys arvensis (Staggerweed)	Υ		
461. 462. 463. 464. 465. 466. 467. auraceae 468.	6856 6865 6883 6927 6930 6939	Hemigenia incana (Silky Hemigenia) Hemigenia podalyrina Mentha pulegium (Pennyroyal) Prunella vulgaris (Self Heal) Stachys arvensis (Staggerweed) Westringia dampieri Cassytha flava (Dodder Laurel)	Υ		
461. 462. 463. 464. 465. 466. 467. auraceae	6856 6865 6883 6927 6930 6939 2951	Hemigenia incana (Silky Hemigenia) Hemigenia podalyrina Mentha pulegium (Pennyroyal) Prunella vulgaris (Self Heal) Stachys arvensis (Staggerweed) Westringia dampieri	Υ		WEST AUST





	Name ID	Species Name	Natura	lised Cons	ervation Code	¹ Endemic To Que Area
471.	2957	Cassytha racemosa (Dodder Laurel)				
472.	11799	Cassytha racemosa forma racemosa				
Lentibularia	aceae					
473.		Utricularia multifida				
474.	7150	Utricularia simplex (Bluecoats)				
_epidoziace	20					
475.	ac	Kurzia compacta				
476.		Kurzia hippurioides				
Linaceae						
477.	4363	Linum trigynum (French Flax)	Y			
Lindsaeace	ae					
478.	59	Lindsaea linearis (Screw Fern)				
Loganiacea	e					
479.		Logania vaginalis (White Spray)				
480.		Orianthera campanulata				
481.		Orianthera serpyllifolia subsp. serpyllifolia				
Lophocolea	iceae					
482.		Chiloscyphus semiteres var. semiteres				
Lythraceae						
483.	5281	Lythrum hyssopifolia (Lesser Loosestrife)	Y			
Malvaceae						
484.	48634	Commersonia corniculata				
485.		Commersonia corylifolia (Hazel-leaved Rulingia)				
486.		Lasiopetalum floribundum (Free Flowering Lasiopetalum)				
487.		Lasiopetalum sp. Denmark (B.G. Hammersley 2012)			P3	
488.		Malva pseudolavatera	Υ			
489.		Modiola caroliniana	Υ			
490.	5091	Thomasia paniculata				
491.	5092	Thomasia pauciflora (Few Flowered Thomasia)				
492.	5094	Thomasia purpurea				
493.	5096	Thomasia quercifolia (Oak Leaved Thomasia)			P4	
494.	5097	Thomasia rhynchocarpa				
495.	5100	Thomasia solanacea			P4	
496.	33488	Thomasia sp. Vasse (C. Wilkins & K. Shepherd CW 581)				
	ceae					
Menyanthad		Liparophyllum latifolium				
Menyanthad	36180	Liparophyllum latifolium Omduffia pamassifolia				
Menyanthac 497. 498.	36180 36181					
Menyanthad 497. 498. Montiaceae	36180 36181	Omduffia pamassifolia				
Menyanthad 497. 498. Montiaceae 499.	36180 36181 2845	Omduffia pamassifolia Calandrinia brevipedata (Short-stalked Purslane)				
Menyanthad 497. 498. Montiaceae 499. 500.	36180 36181 2845 2848	Omduffia pamassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane)				
497. 498. Montiaceae 499. 500. 501.	36180 36181 2845 2848	Omduffia pamassifolia Calandrinia brevipedata (Short-stalked Purslane)				
497. 498. Montiaceae 499. 500. 501.	36180 36181 2845 2848 2856	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya)				
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502.	36180 36181 2845 2848 2856	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy)				
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503.	36180 36181 2845 2848 2856 5315 5316	Omduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil)				
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504.	36180 36181 2845 2848 2856 5315 5316 17202	Omduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa				
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505.	36180 36181 2845 2848 2856 5315 5316 17202 17203	Omduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia				
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789	Omduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis				
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361	Omduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea)				V
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190	Omduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125	Omduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x comiculata Astartea comiculata				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127	Omduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x corniculata				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 510.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x corniculata Astartea glomerulosa (Early Astartea)				Υ
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 510. 511.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213 20283	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x comiculata Astartea gomerulosa (Early Astartea) Astartea pulchelia				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213 20283 5381	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x corniculata Astartea glomerulosa (Early Astartea) Astartea pulchella Astartea scoparia (Common Astartea)				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213 20283 5381 5392	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x comiculata Astartea giomerulosa (Early Astartea) Astartea pulchella Astartea scoparia (Common Astartea) Beaufortia decussata (Gravel Bottlebrush)				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213 20283 5381 5392 5415	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x comiculata Astartea comiculata Astartea glomerulosa (Early Astartea) Astartea pulchella Astartea scoparia (Common Astartea) Beaufortia decussata (Gravel Bottlebrush) Beaufortia sparsa (Swamp Bottlebrush)				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 511. 512. 513. 514. 515.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213 20283 5381 5392 5415 5425	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x corniculata Astartea corniculata Astartea glomerulosa (Early Astartea) Astartea pulchella Astartea scoparia (Common Astartea) Beaufortia decussata (Gravel Bottlebrush) Beaufortia sparsa (Swamp Bottlebrush) Calothamnus lateralis				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213 20283 5381 5392 5415 5425	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x corniculata Astartea corniculata Astartea glomerulosa (Early Astartea) Astartea pulchella Astartea scoparia (Common Astartea) Beaufortia decussata (Gravel Bottlebrush) Beaufortia sparsa (Swamp Bottlebrush) Calothamnus lateralis Calothamnus preissii				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213 20283 5381 5392 5415 5425 5430 5483	Omduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x corniculata Astartea glomerulosa (Early Astartea) Astartea pulchella Astartea pulchella Beaufortia decussata (Gravel Bottlebrush) Beaufortia sparsa (Swamp Bottlebrush) Calothamnus lateralis Calothamnus schaueri				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213 20283 5381 5392 5415 5425 5430 5483 17104 5508	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x comiculata Astartea comiculata Astartea gomerulosa (Early Astartea) Astartea pulchella Astartea scoparia (Common Astartea) Beaufortia decussata (Gravel Bottlebrush) Beaufortia sparsa (Swamp Bottlebrush) Calothamnus lateralis Calothamnus preissii Calothamnus schaueri Calytrix tetragona (Common Fringe-myrtle) Corymbia calophylla (Marri) Darwinia citrodora (Lemon-scented Darwinia)				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213 20283 5381 5392 5415 5425 5430 5483 17104 5508	Ornduffia parassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x comiculata Astartea corniculata Astartea gomerulosa (Early Astartea) Astartea gomerulosa (Carly Astartea) Beaufortia decussata (Gravel Bottlebrush) Beaufortia sparsa (Swamp Bottlebrush) Calothamnus lateralis Calothamnus preissii Calothamnus schaueri Calytrix tetragona (Common Fringe-myrtle) Corymbia calophylla (Marri) Darwinia citriodora (Lemon-scented Darwinia)				Y
Menyanthad 497. 498. Montiaceae 499. 500. 501. Myrtaceae 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520.	36180 36181 2845 2848 2856 5315 5316 17202 17203 19789 20361 48190 20125 20127 45213 20283 5381 5392 5415 5420 5430 5483 17104 5508 5519 5533	Ornduffia parnassifolia Calandrinia brevipedata (Short-stalked Purslane) Calandrinia corrigioloides (Strap Purslane) Calandrinia liniflora (Parakeelya) Actinodium cunninghamii (Albany Daisy) Agonis flexuosa (Peppermint, Wonil) Agonis flexuosa var. flexuosa Agonis flexuosa var. latifolia Agonis theiformis Astartea arbuscula (Minute Astartea) Astartea arbuscula x comiculata Astartea comiculata Astartea gomerulosa (Early Astartea) Astartea pulchella Astartea scoparia (Common Astartea) Beaufortia decussata (Gravel Bottlebrush) Beaufortia sparsa (Swamp Bottlebrush) Calothamnus lateralis Calothamnus preissii Calothamnus schaueri Calytrix tetragona (Common Fringe-myrtle) Corymbia calophylla (Marri) Darwinia citrodora (Lemon-scented Darwinia)				Y



NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.



	name ID	Species Name	Naturalis	sea Conservation Cod	e ¹ Endemic To Q Area
525.	5667	Eucalyptus guilfoylei (Yellow Tingle, Dingul Dingul)			
526.	5708	Eucalyptus marginata (Jarrah, Djara)			
527.	13547	Eucalyptus marginata subsp. marginata (Jarrah)			
528.	5709	Eucalyptus megacarpa (Bullich, Pulidj)			
529.	5739	Eucalyptus patens (Swan River Blackbutt, Dwuda)			
530.	5763	Eucalyptus rudis (Flooded Gum, Kulurda)			
531.	5776	Eucalyptus staeri (Albany Blackbutt)			
532.	19629	Eucalyptus virginea		P4	
533.		Homalospermum firmum			
534.		Hypocalymma cordifolium			
535.		Hypocalymma ericifolium			
536.		Hypocalymma minus			
537.		Hypocalymma scariosum			
538.		Hypocalymma strictum			
539.		Kunzea ericifolia subsp. ericifolia			
540.		Kunzea recurva			
541.		Kunzea sulphurea			
542.		Melaleuca citrina	Υ		
543.	5900	Melaleuca cuticularis (Saltwater Paperbark)			
544.	5902	Melaleuca densa			
545.		Melaleuca lanceolata (Rottnest Teatree, Moonah)			
546.	5926	Melaleuca lateritia (Robin Redbreast Bush)			
547.	5938	Melaleuca microphylla			
548.	5946	Melaleuca pauciflora			
549.	5952	Melaleuca preissiana (Moonah)			
550.	5959	Melaleuca rhaphiophylla (Swamp Paperbark)			
551.	5968	Melaleuca spathulata			
552.	5980	Melaleuca thymoides			
553.		Melaleuca viminalis		P2	
554.		Melaleuca viminea (Mohan)			
555.		Pericalymma crassipes			
556.		Taxandria angustifolia			
557.		Taxandria fingusarona Taxandria fragrans			
558.					
		Taxandria juniperina Taxandria linearifelia			
559.		Taxandria linearifolia			
560.		Taxandria marginata			
561. 562.		Taxandria parviceps Verticordia plumosa var. plumosa			
	.00.0	Totalorala planiota tan planiota			
Diacaceae					
563.	2365	Olax benthamiana			
564.	2366	Olax phyllanthi			
nagraceae					
565.	11570	Failabium billardiareanum subsa, billardiareanum (Smooth Willow Harb)			
		Epilobium billardiereanum subsp. billardiereanum (Smooth Willow Herb)			
566.		Epilobium billardiereanum subsp. intermedium			
567.		Fuchsia magellanica	Y		Y
568.	6139	Oenothera glazioviana (Evening Primrose)	Υ		
Orchidaceae					
569.	15328	Caladenia applanata subsp. applanata			
570.		Caladenia applanata subsp. erubescens		P2	
571.		Caladenia appianata subsp. erubescens Caladenia bicalliata subsp. bicalliata		FZ	
571.					
		Caladenia bicalliata subsp. cleistogama			
573.		Caladenia brownii Caladenia seignaiana (Zahra Orahid)			
574.		Caladenia cairnsiana (Zebra Orchid)			
575.		Caladenia flava subsp. sylvestris			
576.		Caladenia latifolia (Pink Fairy Orchid)			
577.		Caladenia nana subsp. unita			
578.		Caladenia pectinata (King Spider Orchid)			
579.		Calochilus uliginosus			
580.	12946	Corybas limpidus		P4	
581.	1627	Cryptostylis ovata (Slipper Orchid)			
582.	10916	Cyrtostylis huegelii			
583.	19649	Disa bracteata	Υ		
584.		Diuris emarginata (Tall Donkey Orchid)			
585.		Diuris jonesii			
586.		Diuris laevis (Nannygoat Orchid)			
		Diuris pauciflora			
587		Diuris setacea (Bristly Donkey Orchid)			
587. 588					
588.		Drakana aluntadan (Kina in his sarriaga)			
588. 589.	1640	Drakaea glyptodon (King-in-his-carriage)			
588.	1640	Drakaea glyptodon (King-in-his-carriage) Drakaea micrantha	泛 戀1	Department of Biodiversity, Conservation and Attractions	WEST AUST



ı	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
591.	1642	Drakaea thynniphila		Т	
592.		Eriochilus dilatatus (White Bunny Orchid)			
593.	15414	Eriochilus helonomos			
594.		Lyperanthus serratus (Rattle Beak Orchid)			
595.		Microtis alba (White Mignonette Orchid)			
596. 597.		Microtis alboviridis Microtis atrata (Swamp Mignonette Orchid)			
598.		Microtis globula (South-coast Mignonette Orchid)		Т	
599.		Microtis media (Tall Mignonette Orchid)			
600.	12761	Microtis media subsp. densiflora			
601.		Microtis media subsp. media			
602.		Microtis pulchella (Beautiful Mignonette Orchid)		P4	
603. 604.		Praecoxanthus aphyllus Praecoxanthus availlatum (Haadad Laak Orabid)			
605.		Prasophyllum cucullatum (Hooded Leek Orchid) Prasophyllum drummondii (Swamp Leek Orchid)			
606.		Prasophyllum elatum (Tall Leek Orchid)			
607.		Prasophyllum odoratissimum			
608.		Prasophyllum parvifolium (Autumn Leek Orchid)			
609.	1681	Prasophyllum regium (King Leek Orchid)			
610.		Prasophyllum sp. early (G. Brockman GBB 1626)			
611.		Prasophyllum triangulare (Dark Leek Orchid)			
612.		Pterostylis vittata (Banded Greenhood) Thelymitra tigrina (Tiggr Orchid)			
613.		Thelymitra tigrina (Tiger Orchid)			
Orobanchace					
614.		Bellardia trixago (Bellardia)	Y		
615. 616.		Bellardia viscosa	Y Y		
616.	1122	Orobanche minor (Lesser Broomrape)	Y		
Orthodontiac					
617.	32406	Orthodontium lineare			
Orthotrichace		Zygodon intermedius			
Oxalidaceae					
619.		Oxalis corniculata (Yellow Wood Sorrel)	Y		
620. 621.		Oxalis debilis var. corymbosa (Pink Shamrock) Oxalis exilis	Υ		
622.		Oxalis incarnata	Υ		
Della delala			•		
Pallaviciniace	eae	Symphyogyna podophylla			
		Зутртуодуна роцорнуна			
Papaveracea					
624.		Fumaria capreolata (Whiteflower Fumitory)	Y		
625.	31532	Fumaria muralis subsp. muralis	Υ		
Passifloracea 626.	5225	Passiflora filamentosa	Y		
Philydraceae		Philodralla pygmaca (Pyttarfily El)			
627.	11/3	Philydrella pygmaea (Butterfly Flowers)			
Phyllanthace					
628.		Phyllanthus calycinus (False Boronia)			
629.		Porathera drummondii			
630. 631.		Poranthera huegelii Poranthera microphylla (Small Poranthera)			
		Totaliticia illiciophylla (Gillali i Grantifera)			
Phytolaccace 632.		Phytolacca octandra (Red Ink Plant)	Y		
Pittosporacea	ae				
633.		Billardiera coriacea			
634.		Billardiera drummondii			
635. 636		Billardiera floribunda (White-flowered Billardiera) Billardiera fusiformis (Australian Bluehell)			
636. 637.		Billardiera fusiformis (Australian Bluebell) Billardiera laxiflora			
638.		Billardiera variifolia			
639.		Marianthus candidus (White Marianthus)			
640.		Marianthus sylvaticus			
641.	16322	Pittosporum undulatum	Υ		
Plantaginace	20				

Plantaginaceae

NatureMap is a collaborative project of the Department of Biodiversity, Conservation and Attractions and the Western Australian Museum.







	Name ID	Species Name	Naturalised	Conservation Code	¹Endemic To Q Area
642.		Callitriche stagnalis (Common Starwort)	Υ		
643.		Gratiola pubescens			
644.		Plantago lanceolata (Ribwort Plantain)	Υ		
645.		Veronica arvensis (Wall Speedwell)	Υ		
646.	/109	Veronica calycina (Cup Speedwell)			
leurophas	scaceae				
647.	19062	Pleurophascum occidentale		P4	
oaceae					
	177	Agraetia agnillaria	V		
648. 649.		Agrostis capillaris	Y		
		Agrostis stolonifera (Creeping Bent)	Y		
650.		Aira cupaniana (Silvery Hairgrass)	Y		
651.		Aira praecox (Early Hairgrass)	Y		
652. 653.		Ammophila arenaria subsp. arenaria	Υ		
654.		Amphipagen amphipageneides			
		Amphipogon amphipogonoides			
655.		Amphipogon debilis			
656.		Amphipogon laguroides subsp. laguroides	.,		
657.		Anthoxanthum odoratum (Sweet Vernal Grass)	Y		
658.		Arrhenatherum elatius var. bulbosum (Onion Twitch)	Υ		
659.		Austrostipa flavescens			
660.		Austrostipa hemipogon			
661.		Austrostipa mollis			
662.		Austrostipa semibarbata			
663.		Avellinia michelii	Y		
664.		Avena barbata (Bearded Oat)	Υ		
665.		Axonopus fissifolius	Υ		
666.		Briza maxima (Blowfly Grass)	Υ		
667.		Briza minor (Shivery Grass)	Υ		
668.		Bromus catharticus (Prairie Grass)	Υ		
669.		Cenchrus clandestinus (Kikuyu Grass)	Υ		
670.		Cynodon dactylon (Couch)	Υ		
671.	285	Cynosurus echinatus (Rough Dogstail)	Υ		
672.	287	Dactylis glomerata (Cocksfoot)	Υ		
673.	299	Deyeuxia quadriseta (Reed Bentgrass)			
674.	306	Dichelachne crinita (Longhair Plumegrass)			
675.	320	Digitaria sanguinalis (Crab Grass)	Υ		
676.	11105	Echinochloa crus-galli	Υ		
677.	347	Ehrharta calycina (Perennial Veldt Grass)	Υ		
678.	349	Ehrharta longiflora (Annual Veldt Grass)	Υ		
679.	373	Eragrostis brownii (Brown's Lovegrass)			
680.	376	Eragrostis curvula (African Lovegrass)	Υ		
681.	430	Festuca arundinacea (Tall Fescue)	Υ		
682.	439	Hemarthria uncinata (Matgrass)			
683.	11451	Hemarthria uncinata var. uncinata			
684.	444	Holcus lanatus (Yorkshire Fog)	Υ		
685.	449	Hordeum leporinum (Barley Grass)	Υ		
686.	20019	Lachnagrostis filiformis			
687.	467	Lagurus ovatus (Hare's Tail Grass)	Υ		
688.	475	Lolium multiflorum (Italian Ryegrass)	Υ		
689.	476	Lolium perenne (Perennial Ryegrass)	Υ		
690.	478	Lolium rigidum (Wimmera Ryegrass)	Υ		
691.	485	Microlaena stipoides (Weeping Grass)			
692.	516	Parapholis incurva (Coast Barbgrass)	Υ		
693.	527	Paspalum dilatatum	Υ		
694.		Paspalum vaginatum (Salt Water Couch)			
695.		Phalaris aquatica (Phalaris)	Υ		
696.		Poa drummondiana (Knotted Poa)			
697.		Poa poiformis (Coastal Poa)			
698.		Poa porphyroclados			
699.		Polypogon monspeliensis (Annual Beardgrass)	Υ		
700.		Rytidosperma acerosum			
701.		Rytidosperma caespitosum			
702.		Rytidosperma pilosum			
703.		Rytidosperma racemosum			Y
703.		Rytidosperma setaceum			
704.		Setaria parviflora	Υ		
705.		Sporobolus africanus (Parramatta Grass)	Ϋ́Υ		
706.		Sporobolus arricanus (Parramatta Grass) Sporobolus virginicus (Marine Couch)	Ť		
707.		Stenotaphrum secundatum (Buffalo Grass)	Y		
700.	030	Constaphium secundatum (Bullato Glass)	543		
			2 Conserv	ent of Blodiversity,	WEST AUST



700	4440-	Mulaia fanciaulata	V		Area
709.		Vulpia fasciculata	Y		
710.		Vulpia myuros (Rat's Tail Fescue)	Y		
711.	33101	Vulpia myuros forma myuros	Υ		
712.		Vulpia sp.			
docarpace	ae				
713.		Podocarpus drouynianus (Wild Plum, Kula)			
lygalaceae					
714.		Comesperma calymega (Blue-spike Milkwort)			
715.		Comesperma confertum			
716.		Comesperma flavum			
717.	4578	Polygala virgata	Υ		
olygonaceae	е				
718.		Muehlenbeckia adpressa (Climbing Lignum)			
719.		Persicaria hydropiper			
720.		Polygonum aviculare (Wireweed)	Y		
721.		Rumex acetosella (Sorrel)	Y		
722.		Rumex conglomeratus (Clustered Dock)	Y		
723.		Rumex crispus (Curled Dock)	Y		
724.	2437	Rumex frutescens	Υ		
725.	12017	Rumex pulcher subsp. pulcher (Fiddle Dock)	Υ		
726.	2447	Rumex x pseudopulcher	Υ		
alvahvossa	30				
olyphysacea 727.		Acetahularia neniculus			
121.	13140	Acetabularia peniculus			
ottiaceae					
728.	32315	Barbula calycina			
729.	32346	Didymodon torquatus			
730.		Gymnostomum calcareum			
731.		Pseudocrossidium hornschuchianum			
732.		Syntrichia antarctica			
733.					
	32439	Syntrichia papillosa			
734.		Tortula sp.			
735.		Trichostomum eckelianum			
736.	32455	Weissia controversa			
rimulaceae					
737.	6483	Samolus junceus			
738.		Samolus repens (Creeping Brookweed)			
roteaceae					
739.	10824	Acidonia microcarpa			
740.	1773	Adenanthos cuneatus (Coastal Jugflower)			
741.	1791	Adenanthos obovatus (Basket Flower)			
742.	1819	Banksia grandis (Bull Banksia, Pulgarla)			
743.	1822	Banksia ilicifolia (Holly-leaved Banksia)			
744.		Banksia littoralis (Swamp Banksia, Pungura)			
745.					
		Banksia occidentalis (Red Swamp Banksia)			
746.		Banksia quercifolia (Oak-leaved Banksia)			
747.		Banksia seminuda (River Banksia)			
748.		Banksia serra (Serrate-leaved Dryandra)		P4	
749.	32076	Banksia sessilis (Parrot Bush, Pudjak)			
750.	32078	Banksia sessilis var. cordata		P4	
751.	15610	Conospermum caeruleum subsp. caeruleum			
752.		Conospermum capitatum			
753.		Conospermum teretifolium (Spider Smokebush)			
754.		Franklandia fucifolia (Lanoline Bush)			
755.		Grevillea cirsiifolia (Varied-leaf Grevillea)			
756.		Grevillea fuscolutea		Т	
				ı	
757.		Grevillea occidentalis			
758.		Grevillea pulchella subsp. pulchella			
759.		Grevillea quercifolia (Oak-leaf Grevillea)			
760.		Grevillea trifida			
761.	2137	Hakea ceratophylla (Horned Leaf Hakea)			
762.	2150	Hakea cucullata (Hood Leaved Hakea)			
763.	2169	Hakea lasiantha (Woolly Flowered Hakea)			
764.		Hakea linearis			
		Hakea oleifolia (Dungyn)			
		Hakea prostrata (Harsh Hakea)			
765.	7147	rianca producta (riaron rianca)			
765. 766.		Hakea ruscifolia (Candle Hakea)			
765. 766. 767.	2203	Hakea ruscifolia (Candle Hakea)			
765. 766.	2203	Hakea ruscifolia (Candle Hakea) Isopogon attenuatus	Departmen	nt of Biodiversity,	WEST AUST



N	lame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
769.	2226	Isopogon cuneatus (Coneflower)			Alea
770.	2253	Lambertia uniflora			
771.	2267	Persoonia longifolia (Snottygobble)			
772.	2282	Petrophile acicularis			
773.	2293	Petrophile diversifolia			
774.	2302	Petrophile media			
775.	2306	Petrophile rigida			
776.	2320	Strangea stenocarpoides			
777.	16859	Synaphea incurva		P3	
778.	16863	Synaphea petiolaris subsp. triloba			
779.	2326	Synaphea polymorpha (Albany Synaphea, Pinda)			
780.	2328	Synaphea reticulata			
Pteridaceae					
781.	31	Cheilanthes austrotenuifolia			
. "					
Racopilaceae 782.	32480	Racopilum cuspidigerum var. convolutaceum			
702.	32400	Nacopilum cuspiulgerum var. convolutaceum			
Radulaceae					
783.		Radula buccinifera			
Ranunculacea	ae				
784.		Clematis pubescens (Common Clematis)			
785.		Ranunculus repens	Υ		Υ
		, .			
Restionaceae					
786.		Desmocladus fasciculatus			
787.		Desmocladus flexuosus			
788.		Empodisma gracillimum			
789.		Hypolaena exsulca			
790.		Hypolaena grandiuscula			
791.		Hypolaena pubescens			
792.		Leptocarpus denmarkicus			
793.		Leptocarpus laxus			
794.		Leptocarpus scariosus			
795.		Leptocarpus tenax (Slender Twine Rush)			
796.		Leptocarpus thysananthus			
797.		Lepyrodia hermaphrodita			
798.		Lepyrodia monoica			
799.		Lepyrodia muirii			
800.		Loxocarya cinerea			
801.		Sporadanthus rivularis			
802.		Sporadanthus strictus			
803.	15827	Taraxis grossa			
Rhamnaceae					
804.	4828	Spyridium globulosum (Basket Bush)			
805.		Trymalium odoratissimum subsp. trifidum			
806.	15145	Trymalium venustum			
	_	•			
Ricciaceae		D			
807.		Riccia bifurca			
Rosaceae					
808.	3185	Acaena novae-zelandiae	Υ		
809.	18319	Cotoneaster glaucophyllus	Υ		
810.		Rosa canina	Υ		
811.		Rubus anglocandicans	Υ		
812.		Sanguisorba minor (Sheep's Burnet)	Υ		
Dubicocc					
Rubiaceae	7000	Colium murala (Small Cooperas-1	V		
813.		Galium murale (Small Goosegrass) Opercularia hispidula (Hispid Stinkweed)	Υ		
	7040	Querculana hispidula (FISDIO STINKWEED)			
814.					
815.	18255	Opercularia vaginata (Dog Weed)			
	18255				
815. 816.	18255	Opercularia vaginata (Dog Weed)			
815. 816.	18255 7354	Opercularia vaginata (Dog Weed)			
815. 816. Rutaceae	18255 7354 4413	Opercularia vaginata (Dog Weed) Opercularia volubilis (Twining Stinkweed)			
815. 816. Rutaceae 817.	18255 7354 4413 11503	Opercularia vaginata (Dog Weed) Opercularia volubilis (Twining Stinkweed) Boronia crenulata (Aniseed Boronia)			
815. 816. Rutaceae 817. 818.	18255 7354 4413 11503 4416	Opercularia vaginata (Dog Weed) Opercularia volubilis (Twining Stinkweed) Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata var. crenulata			
815. 816. Rutaceae 817. 818. 819.	18255 7354 4413 11503 4416 4422	Opercularia vaginata (Dog Weed) Opercularia volubilis (Twining Stinkweed) Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata var. crenulata Boronia denticulata			
815. 816. Rutaceae 817. 818. 819. 820.	18255 7354 4413 11503 4416 4422 4423	Opercularia vaginata (Dog Weed) Opercularia volubilis (Twining Stinkweed) Boronia crenulata (Aniseed Boronia) Boronia crenulata subsp. crenulata var. crenulata Boronia denticulata Boronia gracilipes (Karri Boronia)			









	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
824.	4429	Boronia molloyae (Tall Boronia)			Alou
825.		Boronia stricta			
826.		Boronia subsessilis			
827.		Boronia virgata		P4	
828.		Chorilaena quercifolia (Chorilaena)		F#	
829.		Crowea angustifolia (Crowea)			
830.	17729	Crowea angustifolia var. platyphylla			
Salviniacea					
831.	79	Salvinia molesta (Salvinia)	Υ		
Santalacea	е				
832.	2335	Choretrum lateriflorum (Dwarf Sour Bush)			
833.	10907	Exocarpos odoratus (Scented Ballart)			
834.		Exocarpos sparteus (Broom Ballart, Djuk)			
835.		Leptomeria ellytes			
836.		Leptomeria pauciflora (Sparse-flowered Currant Bush)			
837.	2300	Leptomeria squarrulosa			
Scapaniace 838.	eae	Chaetophyllopsis whiteleggei			
Schizaeace 839.		Schizaea fietulosa (Narrow Comb Fern)			
639.	24	Schizaea fistulosa (Narrow Comb Fern)			
Scrophular	iaceae				
840.	7054	Dischisma arenarium	Υ		
841.	7292	Myoporum oppositifolium (Twin-leaf Myoporum)			
842.	7295	Myoporum tetrandrum (Boobialla)			
843.		Verbascum virgatum (Twiggy Mullein)	Υ		
_					
Sematophy	llaceae				
844.	32422	Rhaphidorrhynchium amoenum			
845.	32433	Sematophyllum homomallum			
846.	32483	Sematophyllum subhumile var. contiguum			
Salamaaaa					
Solanaceae					
847.		Anthocercis littorea (Yellow Tailflower)			
848.	16321	Anthocercis sylvicola		P3	
849.	6988	Solanum americanum (Glossy Nightshade)	Y		
850.	7017	Solanum laciniatum (Kangaroo Apple)	Υ		
Stylidiacea	Δ.				
-		Lavanhaakia nyailla (Midaat Stylavart)			
851.		Levenhookia pusilla (Midget Stylewort)			
852.		Stylidium acuminatum subsp. meridionale			
853.		Stylidium adnatum (Common Beaked Triggerplant)			
854.	7684	Stylidium amoenum (Lovely Triggerplant)			
855.	7695	Stylidium caespitosum (Fly-away Triggerplant)			
856.					
	7696	Stylidium calcaratum (Book Triggerplant)			
857.		Stylidium calcaratum (Book Triggerplant) Stylidium crassifolium (Thick-leaved Triggerplant)			
857. 858.	7708				
	7708 40944	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens			
858. 859.	7708 40944 7712	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant)			
858. 859. 860.	7708 40944 7712 7718	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not)			
858. 859. 860. 861.	7708 40944 7712 7718 7734	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not) Stylidium guttatum (Dotted Triggerplant)			
858. 859. 860. 861. 862.	7708 40944 7712 7718 7734 7745	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not) Stylidium guttatum (Dotted Triggerplant) Stylidium junceum (Reed Triggerplant)			
858. 859. 860. 861. 862. 863.	7708 40944 7712 7718 7734 7745 7746	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not) Stylidium guttatum (Dotted Triggerplant) Stylidium junceum (Reed Triggerplant) Stylidium laciniatum (Tattered Triggerplant)			
858. 859. 860. 861. 862. 863.	7708 40944 7712 7718 7734 7745 7746	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not) Stylidium guttatum (Dotted Triggerplant) Stylidium junceum (Reed Triggerplant) Stylidium laciniatum (Tattered Triggerplant) Stylidium luteum (Yellow Triggerplant)			
858. 859. 860. 861. 862. 863.	7708 40944 7712 7718 7734 7745 7746 7757 25851	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not) Stylidium guttatum (Dotted Triggerplant) Stylidium junceum (Reed Triggerplant) Stylidium laciniatum (Tattered Triggerplant) Stylidium luteum (Yellow Triggerplant) Stylidium nymphaeum			
858. 859. 860. 861. 862. 863.	7708 40944 7712 7718 7734 7745 7746 7757 25851	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not) Stylidium guttatum (Dotted Triggerplant) Stylidium junceum (Reed Triggerplant) Stylidium laciniatum (Tattered Triggerplant) Stylidium luteum (Yellow Triggerplant)			
858. 859. 860. 861. 862. 863. 864.	7708 40944 7712 7718 7734 7745 7746 7757 25851	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not) Stylidium guttatum (Dotted Triggerplant) Stylidium junceum (Reed Triggerplant) Stylidium laciniatum (Tattered Triggerplant) Stylidium luteum (Yellow Triggerplant) Stylidium nymphaeum			
858. 859. 860. 861. 862. 863. 864. 865.	7708 40944 7712 7718 7734 7745 7746 7757 25851 7774 46517	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not) Stylidium guttatum (Dotted Triggerplant) Stylidium junceum (Reed Triggerplant) Stylidium laciniatum (Tattered Triggerplant) Stylidium luteum (Yellow Triggerplant) Stylidium nymphaeum Stylidium piliferum (Common Butterfly Triggerplant)			
858. 859. 860. 861. 862. 863. 864. 865. 866.	7708 40944 7712 7718 7734 7745 7746 7757 25851 7774 46517 7778	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not) Stylidium guttatum (Dotted Triggerplant) Stylidium junceum (Reed Triggerplant) Stylidium laciniatum (Tattered Triggerplant) Stylidium luteum (Yellow Triggerplant) Stylidium nymphaeum Stylidium piliferum (Common Butterfly Triggerplant) Stylidium planirosula Stylidium pritzelianum (Royal Triggerplant)			
858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868.	7708 40944 7712 7718 7734 7745 7746 7757 25851 7774 46517 7778	Stylidium crassifolium (Thick-leaved Triggerplant) Stylidium decipiens Stylidium despectum (Dwarf Triggerplant) Stylidium diversifolium (Touch-me-not) Stylidium guttatum (Dotted Triggerplant) Stylidium junceum (Reed Triggerplant) Stylidium luteum (Yattered Triggerplant) Stylidium luteum (Yellow Triggerplant) Stylidium nymphaeum Stylidium piliferum (Common Butterfly Triggerplant) Stylidium pinirosula Stylidium pritzelianum (Royal Triggerplant)			
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878. 5239 Pimelea clavata







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
879.	5243	Pimelea ferruginea			
880.	5249	Pimelea hispida (Bristly Pimelea)			
881.	5251	Pimelea imbricata			
882.	5252	Pimelea lanata			
883.	5255	Pimelea longiflora			
884.	5261	Pimelea rosea (Rose Banjine)			
885.	18117	Pimelea rosea subsp. rosea			
886.	5269	Pimelea sylvestris			
887.	5270	Pimelea tinctoria			
Urticaceae 888. Verbenaceae		Parietaria debilis (Pellitory)			
889.	36096	Verbena incompta (Purple-top Verbena)	Υ		
Xanthorrhoe 890. 891.	1280	Chamaescilla corymbosa (Blue Squill) Xanthorrhoea gracilis (Graceful Grass Tree, Mimidi)			
Xyridaceae 892.		Xyris flexifolia			
893.	1150	Xyris lanata			

Zamiaceae 894.

85 Macrozamia riedlei (Zamia, Djiridji)

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



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

EPBC Act Protected Matters Report

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

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

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

Report created: 24/08/20 17:13:09

Summary

Details

Matters of NES

Other Matters Protected by the EPBC Act

Extra Information

Caveat

Acknowledgements



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

Coordinates
Buffer: 10.0Km



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.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	1
Listed Threatened Species:	57
Listed Migratory Species:	58

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.

Commonwealth Land:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	83
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	12
Regional Forest Agreements:	1
Invasive Species:	23
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

Listed Threatened Leological Communities		[Tresource 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		
Subtropical and Temperate Coastal Saltmarsh	Vulnerable	Community likely to occur within area		
Listed Threatened Species		[Resource Information]		
Name	Status	Type of Presence		
Birds				
Botaurus poiciloptilus Australasian Bittern [1001]	Endangered	Species or species habitat likely to occur within area		
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area		
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area		
Calidris tenuirostris Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area		
<u>Calyptorhynchus banksii naso</u> Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat known to occur within area		
Calyptorhynchus baudinii Baudin's Cockatoo, Long-billed Black-Cockatoo [769]	Endangered	Breeding known to occur within area		
Calyptorhynchus latirostris Carnaby's Cockatoo, Short-billed Black-Cockatoo [59523]	Endangered	Species or species habitat known to occur within area		
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area		
<u>Charadrius mongolus</u> Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area		
<u>Diomedea antipodensis</u> Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area		
Diomedea dabbenena Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area		

[Resource Information]

Name	Status	Type of Presence
Diomedea epomophora Southern Royal Albatross [89221] Diomedea exulans	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
<u>Diomedea sanfordi</u> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat may occur within area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
<u>Limosa lapponica baueri</u> Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat may occur within area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat likely to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
<u>Thalassarche impavida</u> Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area

Name	Status	Type of Presence
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Fish		
Galaxiella nigrostriata Blackstriped Dwarf Galaxias, Black-stripe Minnow [88677]	Endangered	Species or species habitat may occur within area
Nannatherina balstoni Balston's Pygmy Perch [66698]	Vulnerable	Species or species habitat known to occur within area
Nannoperca pygmaea Little Pygmy Perch [88315]	Endangered	Species or species habitat likely to occur within area
Mammals		
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Dasyurus geoffroii Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat may occur within area
Parantechinus apicalis Dibbler [313]	Endangered	Species or species habitat likely to occur within area
Pseudocheirus occidentalis Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat may occur within area
Setonix brachyurus Quokka [229]	Vulnerable	Species or species habitat known to occur within area
Other		
Westralunio carteri Carter's Freshwater Mussel, Freshwater Mussel [86266]	Vulnerable	Species or species habitat likely to occur within area
Plants		
Caladenia harringtoniae Harrington's Spider-orchid, Pink Spider-orchid [56786]	Vulnerable	Species or species habitat likely to occur within area
<u>Calectasia cyanea</u> Blue Tinsel Lily [7669]	Critically Endangered	Species or species habitat likely to occur within area
Commersonia apella Many-flowered Commersonia [86877]	Critically Endangered	Species or species habitat likely to occur within area
Conostylis misera Grass Conostylis [21320]	Endangered	Species or species habitat may occur within area

Name	Status	Type of Presence
<u>Drakaea micrantha</u>		
Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat known to occur within area
Isopogon uncinatus		
Albany Cone Bush, Hook-leaf Isopogon [20871]	Endangered	Species or species habitat likely to occur within area
Kennedia glabrata Northcliffe Kennedia [16452]	Vulnerable	Species or species habitat likely to occur within area
Sphenotoma drummondii		
Mountain Paper-heath [21160]	Endangered	Species or species habitat likely to occur within area
<u>Verticordia apecta</u> Hay River Featherflower, Scruffy Verticordia [65545]	Critically Endangered	Species or species habitat may occur within area
Reptiles		
Caretta caretta Loggerhead Turtle [1763]	Endangered	Breeding likely to occur within area
<u>Chelonia mydas</u> Green Turtle [1765]	Vulnerable	Breeding likely to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area
Sharks		Willim Grou
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat likely to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species	the EDDO Act. Throughouse	[Resource Information]
* Species is listed under a different scientific name on Name	Threatened	Type of Presence
Migratory Marine Birds	Timodionod	1 9 90 91 1 10001100
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Foraging, feeding or related behaviour likely to occur within area
Ardenna grisea Sooty Shearwater [82651]		Species or species habitat may occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area
<u>Diomedea epomophora</u> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area

Name	Threatened	Type of Presence
Diomedea exulans Wandering Albatross [89223] Diomedea sanfordi	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Hydroprogne caspia Caspian Tern [808]		Breeding known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area
Onychoprion anaethetus Bridled Tern [82845]		Foraging, feeding or related behaviour likely to occur within area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Breeding known to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Caperea marginata Pygmy Right Whale [39]		Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area
Caretta caretta Loggerhead Turtle [1763] Chelonia mydas	Endangered	Breeding likely to occur within area
Green Turtle [1765]	Vulnerable	Breeding likely to occur within area

Name	Threatened	Type of Presence
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur
Leatherback runte, Leathery runte, Lutti [1700]	Lildangered	within area
Lagenorhynchus obscurus Dusky Dolphin [43]		Species or species habitat
Dusky Dolphin [43]		Species or species habitat may occur within area
Lamna nasus		
Porbeagle, Mackerel Shark [83288]		Species or species habitat
		may occur within area
Manta alfredi		
Reef Manta Ray, Coastal Manta Ray, Inshore Manta		Species or species habitat
Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		may occur within area
Manta birostris		
Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
		,
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Species or species habitat
		known to occur within area
<u>Orcinus orca</u>		
Killer Whale, Orca [46]		Species or species habitat
		may occur within area
Rhincodon typus		
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
		may oodar within area
Migratory Terrestrial Species Motacilla cinerea		
Grey Wagtail [642]		Species or species habitat
		may occur within area
Migratory Watlanda Chagina		
Migratory Wetlands Species		
Actitis hypoleucos		Species or species habitat
		Species or species habitat known to occur within area
Actitis hypoleucos Common Sandpiper [59309]		•
Actitis hypoleucos		known to occur within area Species or species habitat
Actitis hypoleucos Common Sandpiper [59309] Arenaria interpres		known to occur within area
Actitis hypoleucos Common Sandpiper [59309] Arenaria interpres Ruddy Turnstone [872] Calidris acuminata		Species or species habitat known to occur within area
Actitis hypoleucos Common Sandpiper [59309] Arenaria interpres Ruddy Turnstone [872]		Species or species habitat known to occur within area Species or species habitat
Actitis hypoleucos Common Sandpiper [59309] Arenaria interpres Ruddy Turnstone [872] Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
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Actitis hypoleucos Common Sandpiper [59309] Arenaria interpres Ruddy Turnstone [872] Calidris acuminata Sharp-tailed Sandpiper [874] Calidris alba	Endangered	Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat
Actitis hypoleucos Common Sandpiper [59309] Arenaria interpres Ruddy Turnstone [872] Calidris acuminata Sharp-tailed Sandpiper [874] Calidris alba Sanderling [875] Calidris canutus	Endangered	Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area
Actitis hypoleucos Common Sandpiper [59309] Arenaria interpres Ruddy Turnstone [872] Calidris acuminata Sharp-tailed Sandpiper [874] Calidris alba Sanderling [875] Calidris canutus	Endangered	Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat
Actitis hypoleucos Common Sandpiper [59309] Arenaria interpres Ruddy Turnstone [872] Calidris acuminata Sharp-tailed Sandpiper [874] Calidris alba Sanderling [875] Calidris canutus Red Knot, Knot [855]	Endangered Critically Endangered	Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area
Actitis hypoleucos Common Sandpiper [59309] Arenaria interpres Ruddy Turnstone [872] Calidris acuminata Sharp-tailed Sandpiper [874] Calidris alba Sanderling [875] Calidris canutus Red Knot, Knot [855] Calidris ferruginea	-	Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area Species or species habitat known to occur within area
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Name	Threatened	Type of Presence
Calidris tenuirostris		
Great Knot [862]	Critically Endangered	Species or species habitat known to occur within area
Charadrius leschenaultii		
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Gallinago stenura		
Pin-tailed Snipe [841]		Species or species habitat known to occur within area
Glareola maldivarum		
Oriental Pratincole [840]		Species or species habitat known to occur within area
<u>Limosa lapponica</u>		
Bar-tailed Godwit [844]		Species or species habitat known to occur within area
<u>Limosa limosa</u>		
Black-tailed Godwit [845]		Species or species habitat known to occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus		
Osprey [952]		Species or species habitat known to occur within area
Pluvialis fulva		
Pacific Golden Plover [25545]		Species or species habitat known to occur within area
Pluvialis squatarola		
Grey Plover [865]		Species or species habitat known to occur within area
Tringa glareola		
Wood Sandpiper [829]		Species or species habitat known to occur within area
Tringa nebularia		
Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
Tringa stagnatilis		
Marsh Sandpiper, Little Greenshank [833]		Species or species habitat known to occur within area
Xenus cinereus		
Terek Sandpiper [59300]		Species or species habitat known 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.

	m	

Commonwealth Land -

Listed Marine Species [Resource Information]

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

Name Threatened Type of Presence

Birds

Actitis hypoleucos

Common Sandpiper [59309] Species or species habitat

known to occur within area

Apus pacificus

Fork-tailed Swift [678] Species or species habitat

likely to occur within area

Ardea alba

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

known to occur within area

Ardea ibis

Cattle Egret [59542] Species or species habitat

may occur within area

Arenaria interpres

Ruddy Turnstone [872] Species or species habitat

known to occur within area

Calidris acuminata

Sharp-tailed Sandpiper [874] Species or species habitat

known to occur within area

Calidris alba

Sanderling [875] Species or species habitat

known to occur within area

Calidris canutus

Red Knot, Knot [855] Endangered Species or species habitat

known to occur within area

Calidris ferruginea

Curlew Sandpiper [856] Critically Endangered Species or species habitat

known to occur within area

Calidris melanotos

Pectoral Sandpiper [858] Species or species habitat

known to occur within area

Calidris ruficollis

Red-necked Stint [860] Species or species habitat

known to occur within area

Calidris subminuta

Long-toed Stint [861] Species or species habitat

known to occur within area

Calidris tenuirostris

Great Knot [862] Critically Endangered Species or species habitat

known to occur within area

Catharacta skua

Great Skua [59472] Species or species habitat

may occur within area

Name	Threatened	Type of Presence
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area
Charadrius ruficapillus Red-capped Plover [881]		Species or species habitat known to occur within area
Diomedea antipodensis Antipodean Albatross [64458]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
<u>Diomedea sanfordi</u> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Gallinago stenura Pin-tailed Snipe [841]		Species or species habitat known to occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat known to occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Species or species habitat known to occur within area
Larus pacificus Pacific Gull [811]		Foraging, feeding or related behaviour known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Limosa limosa Black-tailed Godwit [845]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area

Name	Threatened	Type of Presence
Merops ornatus		
Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pachyptila turtur Fairy Prion [1066]		Species or species habitat likely to occur within area
Pandion haliaetus Osprey [952]		Species or species habitat known to occur within area
Phoebetria fusca		
Sooty Albatross [1075]	Vulnerable	Species or species habitat likely to occur within area
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat known to occur within area
Pluvialis squatarola Grey Plover [865]		Species or species habitat known to occur within area
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area
Puffinus assimilis Little Shearwater [59363]		Foraging, feeding or related behaviour known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Foraging, feeding or related behaviour likely to occur within area
Puffinus griseus Sooty Shearwater [1024]		Species or species habitat may occur within area
Red-necked Avocet [871]		Species or species habitat known to occur within area
Sterna anaethetus Bridled Tern [814]		Foraging, feeding or related behaviour likely to occur within area
Sterna caspia Caspian Tern [59467]		Breeding known to occur within area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Foraging, feeding or related behaviour may occur within area
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species

Name	Threatened	Type of Presence
		habitat may occur within area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
Thinornis rubricollis Hooded Plover [59510]		Species or species habitat known to occur within area
Tringa glareola Wood Sandpiper [829]		Species or species habitat known to occur within area
<u>Tringa nebularia</u> Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area
<u>Tringa stagnatilis</u> Marsh Sandpiper, Little Greenshank [833]		Species or species habitat known to occur within area
Xenus cinereus Terek Sandpiper [59300]		Species or species habitat known to occur within area
Fish		
Acentronura australe Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area
Campichthys galei Gale's Pipefish [66191]		Species or species habitat may occur within area
Heraldia nocturna Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within area
<u>Hippocampus breviceps</u> Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area
Histiogamphelus cristatus Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]	C	Species or species habitat may occur within area
Leptoichthys fistularius Brushtail Pipefish [66248]		Species or species habitat may occur within area
<u>Lissocampus caudalis</u> Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area
<u>Lissocampus runa</u> Javelin Pipefish [66251]		Species or species habitat may occur within area
Maroubra perserrata Sawtooth Pipefish [66252]		Species or species habitat may occur within area
Nannocampus subosseus Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat may occur within area
Notiocampus ruber Red Pipefish [66265]		Species or species habitat may occur within area
Phycodurus eques Leafy Seadragon [66267]		Species or species

Name	Threatened	Type of Presence
	. III Gatoriou	habitat may occur within
		area
Phyllopteryx taeniolatus		
Common Seadragon, Weedy Seadragon [66268]		Species or species habitat
		may occur within area
Pugnaso curtirostris		
Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat
r ughose r ipensii, r ug-nosed r ipensii [00200]		may occur within area
Solegnathus lettiensis		
Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat
		may occur within area
Stigmatopora argus		
Spotted Pipefish, Gulf Pipefish, Peacock Pipefish		Species or species habitat
[66276]		may occur within area
[882.8]		
Stigmatopora nigra		
Widebody Pipefish, Wide-bodied Pipefish, Black		Species or species habitat
Pipefish [66277]		may occur within area
Uracampus cariniractris		
<u>Urocampus carinirostris</u> Hairy Pipefish [66282]		Species or species habitat
Tally Fipelish [00202]		may occur within area
Vanacampus margaritifer		
Mother-of-pearl Pipefish [66283]		Species or species habitat
		may occur within area
Vanacampus phillipi		
Vanacampus phillipi Port Phillip Pipefish [66284]		Species or species habitat
Port Prillip Pipelisti [00204]		Species or species habitat may occur within area
		may occar within area
Vanacampus poecilolaemus		
Longsnout Pipefish, Australian Long-snout Pipefish,		Species or species habitat
Long-snouted Pipefish [66285]		may occur within area
Mammals		
Arctocephalus forsteri		
Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat
		may occur within area
		•
Neophoca cinerea		
Australian Sea-lion, Australian Sea Lion [22]	Vulnerable	Species or species habitat
		may occur within area
Reptiles		
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Breeding likely to occur
		within area
Chelonia mydas		
Green Turtle [1765]	Vulnerable	Breeding likely to occur within area
Dermochelys coriacea		within area
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur
Leatherback Further, Leathery Further, Lutti [1700]	Litarigorea	within area
Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata		
Minke Whale [33]		Species or species habitat
		may occur within area
Balaenoptera edeni		
Bryde's Whale [35]		Species or species habitat
,		may occur within area
		-
Balaenoptera musculus		
Blue Whale [36]	Endangered	Species or species habitat
		likely to occur

Name	Status	Type of Presence
		within area
Caperea marginata		0
Pygmy Right Whale [39]		Species or species habitat may occur within area
Delphinus delphis		
Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat
		may occur within area
Eubalaena australis		
Southern Right Whale [40]	Endangered	Breeding known to occur within area
Grampus griseus		0
Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Lagenorhynchus obscurus		
Dusky Dolphin [43]		Species or species habitat
		may occur within area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Species or species habitat known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat
		may occur within area
Tursiops aduncus		
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose		Species or species habitat
Dolphin [68418]		likely to occur within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species habitat may occur within area
		Jooda Mailir drou

Extra Information

State and Territory Reserves	[Resource Information]
Name	State
McIntosh Road	WA
McLean Road	WA
Mount Shadforth	WA
NTWA Bushland covenant (0017)	WA
NTWA Bushland covenant (0096)	WA
NTWA Bushland covenant (0097)	WA
NTWA Bushland covenant (0142)	WA
NTWA Bushland covenant (0143)	WA
Redmond Road	WA
Scotsdale Road	WA
Unnamed WA27398	WA
William Bay	WA
Regional Forest Agreements	[Resource Information]
Note that all areas with completed RFAs have been included.	
Name	State
South West WA RFA	Western Australia
Invasive Species	[Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant 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 Resouces Audit, 2001.

Name	Status	Type of Presence
Birds		
Anas platyrhynchos		
Mallard [974]		Species or species habitat likely to occur

Name	Status	Type of Presence
Columba livia		within area
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		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		
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Anredera cordifolia Madeira Vine, Jalap, Lamb's-tail, Mignonette Vine, Anredera, Gulf Madeiravine, Heartleaf Madeiravine, Potato Vine [2643]		Species or species habitat likely to occur within area
Asparagus asparagoides Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Asparagus scandens Asparagus Fern, Climbing Asparagus Fern [23255]		Species or species habitat likely to occur within area
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area
Genista sp. X Genista monspessulana Broom [67538]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large- leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]	·	Species or species habitat likely to occur within area

Name	Status	Type of Presence
Lycium ferocissimum		
African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Pinus radiata		
Radiata Pine Monterey Pine, Insignis Pine, Vine [20780]	Vilding	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 calodene	dron & S.x reichardtii	
Willows except Weeping Willow, Pussy Willo Sterile Pussy Willow [68497]		Species or species habitat likely to occur within area
Ulex europaeus		
Gorse, Furze [7693]		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

-34 98376 117 31631

Acknowledgements

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- -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
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