

Our Ref: 5185AA_Rev1

05 April 2022



Dear Mark

Windy Hill TEC Assessment

1 Introduction

Rottnest Island Authority (RIA) commissioned 360 Environmental Pty Ltd part of SLR Consulting (360 Environmental) to undertake a flora and vegetation assessment with a focus on conservation significant communities in Windy Hill within the main Rottnest Island settlement (the Survey Area) on 17 February 2022 (Figure 1). In June 2021, 360 Environmental surveyed an area overlapping the Survey Area (the June 2021 Survey Area), and the results from the survey have helped to inform the current survey.

The reconnaissance survey was undertaken in accordance with EPA technical guidelines (Environmental Protection Authority, 2016), to understand key flora and vegetation values within the Survey Area. The focus of the survey was to delineate any identified instances of the State Threatened Ecological Community (TEC) SCP30a 'Callitris preissii (or Melaleuca lanceolata') forests and woodlands, Swan Coastal Plain', which is listed as Vulnerable.

This brief letter report outlines the key findings from the survey with management mitigation measures, if required.



2 Scope of Works

The scope of works included provision of:

- A desktop assessment using relevant database searches and a literature review of the
 previous survey results to compile and summarise existing records of flora, vegetation,
 and fauna (including conservation significant species and communities) in the vicinity of
 the Survey Area
- A reconnaissance flora and vegetation survey using detailed mapping notes to identify and describe the vegetation and flora occurring within the Survey Area
- A brief letter report outlining key findings and proposed management actions
- A geospatial data package prepared in accordance with IBSA requirements.



3 Methodology

3.1 Desktop Assessment

3.1.1 Literature Review

Background information on the Survey Area and surrounds was compiled prior to the field survey referencing previous surveys completed in the vicinity of the Survey Area (see Section 4.2.2):

- Rottnest Island Survey (360 Environmental Pty Ltd, 2020), located less than 1.0 km northwest of the Survey Area
- Windy Hill Staff Accommodation Project Assessment Report (360 Environmental Pty Ltd, 2021), which overlaps the current Survey Area.

3.1.2 Database Searches

Database searches were conducted in the vicinity of the Survey Area:

- A NatureMap (Department of Biodiversity Conservation and Attractions, 2020a)
 database search (10 km buffer) was undertaken in November 2020 to obtain a list of
 potential flora species occurring within the Survey Area, including conservation
 significant flora taxa (Appendix A)
- An EPBC Protected Matters Search (PMST) was undertaken in March 2022 to identify the potential for Matters of National Environmental Significance (MNES) to occur within or surrounding the Survey Area (Department of Agriculture Water and the Environment, 2022a) (Appendix B).

3.2 Flora and Vegetation

3.2.1 Field Survey

The reconnaissance flora and vegetation survey was undertaken on 17th February 2022 by Senior Botanist Simon Colwill who has over 10 years of experience conducting surveys of similar scope throughout Western Australia. The Survey Area was predominantly restricted to existing cleared and heavily impacted areas, or highly restricted sections of native vegetation. Any vegetation outside the Survey Area was only assessed in reference to targeting undescribed or conservation significant flora. All data was collected using a Fulcrum mobile data collection device.



3.2.2 Establishment of Flora Sites

The Survey Area was assessed via detailed mapping notes and meandering traverses to gather information to characterise and delineate vegetation and compile an inventory of vascular flora. At each site, detailed mapping notes were undertaken with the following information collected:

- Site photograph
- Location GPS Coordinates
- Landform and soil description
- Species list including heights and foliar cover
- Vegetation Description in accordance with the National Vegetation Information System (NVIS) Level 5
- Vegetation Condition.

A total of eight detailed mapping notes were completed during the survey. Where an instance of the conservation significant community was encountered, a mapping note was taken and a small search to delineate community boundaries was undertaken.

3.2.3 Taxonomy and Nomenclature

Where field identification of plant taxa was not possible, specimens were collected for identification using resources of the WAH. Identification of flora collections was completed by Principal Botanist Narelle Whittington.

The finalised species list was checked against FloraBase (Western Australian Herbarium, 2022) to determine the conservation status and known distribution of each taxon. Introduced species were compared against the current Biosecurity and Agriculture Management (BAM) Act Declared Plants list and the Weeds of National Significance (WoNS) list to determine their control status (Department of Agriculture Water and the Environment, 2022b; Department of Primary Industries and Regional Development, 2022).



4 Results

4.1 Limitations

Limitations and constraints of the flora, vegetation and fauna survey are detailed below in Table 1.

Table 1: Limitations and Constraints Associated with the Survey Area

Variable	Degree of Limitation (Yes/Partial/No)	Potential Constraints on Survey Outcomes
Survey Scope	No	The reconnaissance flora and vegetation survey was undertaken in accordance with EPA guidelines (Environmental Protection Authority, 2016) and was considered appropriate to support approvals applications. The Survey Area was assessed via detailed mapping notes and meandering traverses to gather information to characterise and delineate vegetation and compile an inventory of vascular flora
		The entire Survey Area was not systematically searched, and therefore additional flora taxa, and records of significant flora and weed species may be recorded with additional survey effort. However, this was not considered a limitation due to the dry condition of the Survey Area and the belowaverage rainfall recorded for the three months prior to commencing the survey.
Availability of Data	No	All data required to complete the scope of works including regional and local contextual information was available.
Site Access	No	The Survey Area was able to be accessed on foot.
		Eight mapping notes were undertaken to aid vegetation mapping and delineation, as well as preparing an inventory of vascular flora for the Survey Area.
Survey Intensity and Resources	No	The entire Survey Area was not systematically searched, and therefore additional flora taxa, and records of significant flora and weed species may be recorded with additional survey effort.
		The survey effort was considered adequate to assess the flora and vegetation values of the Survey Area and provide information required to support approvals applications.
Experience	No	Senior Botanist Simon Colwill undertook the detailed flora and vegetation survey. Simon has over 10 years' experience conducting surveys of similar scope throughout Western Australia.
		Principal Botanist Narelle Whittington identified collected flora specimens.



Variable	Degree of Limitation (Yes/Partial/No)	Potential Constraints on Survey Outcomes
Timing, weather, season	Partial	The recommended primary flora survey period for the region as per the EPA Technical Guidance, is Spring (September – November). The survey was not undertaken during the recommended primary survey period. Additionally, the rainfall recorded for the three months prior to commencing the survey was below average, and this resulted in dry conditions and sterile flora. It is expected that additional flora taxa would be recorded during the primary survey period or following a significant rain event. This was considered a partial limitation as, although additional flora taxa would have been recorded, it did not represent a constraint to assess the presence of the TEC.
		The Survey Area was traversed on foot and detailed mapping notes of all remnant vegetation were undertaken. All flora species encountered within the Survey Area were recorded. A total of 24 vascular flora taxa were recorded from the
Life Forms Sampled	No	Survey Area, of which five were introduced flora taxa. Of the 24 flora taxa recorded, three taxa (12.5%), could not be identified to species level because they were sterile at the time of the survey.
		None of the unknown flora taxa collected were analogous to Threatened or Priority flora taxa identified by the database searches as possible to occur within the Survey Area.
Mapping Reliability	No	Vegetation types were described and mapped based on mapping notes taken during the field survey.
Disturbances (fire, flood etc.)	No	Areas of disturbance associated with weeds, historical clearing, and rehabilitation areas were recorded but were not a constraint on the results of the survey.
Completeness	No	The survey was considered complete for a reconnaissance flora and vegetation survey, and all vegetation types were surveyed and delineated within the Survey Area.

4.2 Desktop Assessment

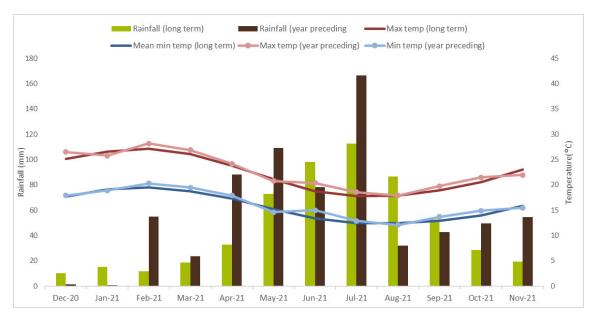
4.2.1 Climate

The closest long-term Bureau of Meteorology weather station with a complete dataset is Rottnest Island (Station 009193), located approximately 3.6 km east of the Survey Area. Climate statistics were calculated utilising data from the most current climate normal, which is defined as a 30 year interval (Bureau of Meteorology, 2007), where possible. A climate normal is a period long enough to include year-to-year variations while avoiding the influence of longer-term changes in climate (Bureau of Meteorology, 2007).

The long-term mean minimum temperature for Rottnest Island from 12.4°C (July and August) to 17.8°C (July) (1983 to 2022) and the long-term mean maximum temperature ranges from 19.5°C (February) to 27.2°C (February) (Graph 1) (Bureau of Meteorology, 2022).



The Rottnest Island weather station recorded 232.2 mm of rainfall in the 12 months prior to the survey (November 2020 to October 2021), which is 213.7 mm above the long-term average of 567.7 mm (Bureau of Meteorology, 2021). In the three months prior to the survey (August 2021 to October 2021), 167.5 mm of rainfall was recorded, which is 79.9 mm below the long-term average of 247.4 mm for the same time period (Bureau of Meteorology, 2022).



Graph 1: Long term and Monthly Total Rainfall, Maximum and Minimum temperatures for Rottnest Island (009193) (Bureau of Meteorology, 2022)

4.2.2 Literature Review

4.2.2.1 Rottnest Island Survey

RIA engaged 360 Environmental to conduct a survey to determine the local significance of vegetation, flora and fauna habitat on a portion of land in the north-east of Rottnest Island, between the golf course and 'The Basin', which is located less than 1.0 km northwest of the current Survey Area (360 Environmental Pty Ltd, 2020). The survey was completed on the 24 of November 2020 by Senior Botanist Simon Colwill.

Three vegetation types were identified:

 Melaleuca lanceolata tall sparse shrubland over Acanthocarpus preissii low heathland over *Trachyandra divaricata open herbland, which was the dominant vegetation covering 90.1% of the site. This vegetation type had the potential to be considered analogous to the Callitris preissii (or Melaleuca lanceolata) forests and woodlands, Swan Coastal Plain TEC.



- Acacia rostellifera mid closed shrubland over Acanthocarpus preissii low sparse heathland over *Trachyandra divaricata sparse herbland covering 4.2% of the site.
- Eucalyptus gomphocephala mid open forest over *Trachyandra divaricata (mixed weed spp.) sparse herbland, which covered 5.7% of the site. Two patches of this vegetation type were identified, and only one was considered analogous to the Tuart (Eucalyptus gomphocephala) woodlands and forests of the Swan Coastal Plain TEC, which is listed as Critically Endangered.

A total of 30 vascular flora species were recorded, comprising 20 native flora species and 10 weed species. No Threatened or Priority flora were recorded within the site. Weeds were present across the site, with *Trachyandra divaricata being the most dominant and aggressive weed recorded.

4.2.2.2 Windy Hill Staff Accommodation Project - Assessment Report

360 Environmental was commissioned by the RIA to perform an initial botanical assessment of the site of the proposed Staff Accommodation Project at Windy Hill, which was completed in June 2021 (360 Environmental Pty Ltd, 2021). The focus of the work was to examine vegetation on the site and its surrounds that may have the potential to be part of the 'Callitris preissii (or Melaleuca lanceolata) forests and woodlands, Swan Coastal Plain' Threatened Ecological Community.

Three vegetation types were identified and mapped during the survey, of which one was identified as having a high chance of being analogous to the TEC.

The February 2022 Survey Area represents an extension of the area previously surveyed by 360 Environmental (2021).

4.2.3 Soil Systems

Soil system mapping of Western Australia describes broad soil and landscape characteristics from regional to local scales, ranging from 1:20,000 to 1:250,000 (Department of Primary Industries and Regional Development, 2018). The Survey Area occurs within the Quindalup South System (211Qu), which is characterised by coastal dunes of the Swan Coastal Plain, with calcareous deep sands and yellow sands, and is represented by coastal scrub (Department of Primary Industries and Regional Development, 2018).



4.2.4 Conservation and Environmentally Sensitive Areas

The Survey Area is identified within a Conservation Area (Department of Biodiversity Conservation and Attractions, 2021), which is vested under the RIA (R 16713).

Environmentally Sensitive Areas (ESAs) are declared by the Department of Water and Environmental Regulation (DWER) to prevent the degradation of important environmental values such as Threatened flora, TECs or significant wetlands.

The entire Survey Area is mapped over an ESA, which is associated with the SCP30a TEC (Department of Water and Environmental Regulation, 2021). Another ESA is identified within 5 km of the Survey Area, which is linked to Government House Lake located west of the Survey Area.

4.2.5 Database Searches

Database searches identified five conservation significant flora taxa occurring within 10 km of the Survey Area, comprising:

- One Threatened taxon, *Diuris micrantha* (Vulnerable)
- Two Priority 1 taxa, Lachnagrostis nesomytica subsp. nesomytica and Lachnagrostis nesomytica subsp. pseudofiliformis
- Two Priority 4 taxa, Myosotis australis and Lepidium puberulum.

A PMST search also identified the TEC Banksia Woodlands of the Swan Coastal Plain ecological community, which is listed as Endangered, within a 5 km buffer of the Survey Area.

4.3 Flora and Vegetation Survey

4.3.1 Flora Composition

The survey recorded a total of 24 taxa from 18 genera across 12 families (Table 2). The dominant families were Poaceae and Myrtaceae (seven taxa each).

No Threatened flora taxa pursuant to the EPBC Act 1999 and/or gazetted as Threatened pursuant to the BC Act 2016 were recorded during the survey. No Priority flora taxa as listed by DBCA were recorded within the Survey Area.

Six introduced flora taxa were recorded within the Survey Area. None are listed as Declared Pests under the BAM Act (Department of Primary Industries and Regional Development, 2022) or WoNS (Department of Agriculture Water and the Environment, 2022b).

Three specimens could not be identified to species level because the taxa were sterile at the time of the survey, *Eucalyptus* sp., *Poa* sp. and Poaceae sp. One of these was not able to be assigned a confirmed genus. None of the unconfirmed flora taxa were analogous to Priority flora taxa identified by the database searches.



Table 2: Inventory of Vascular Flora

Family	Таха	Status under the BAM Act	WoNS
Asparagaceae	Acanthocarpus preissii	-	-
Asphodelaceae	*Trachyandra divaricata	Permitted – s11	No
Asteraceae	*Dittrichia graveolens	Permitted – s11	No
Casuarinaceae	*Casuarina glauca	Permitted – s11	No
Cupressaceae	Callitris preissii	-	-
Cyperaceae	Lepidosperma gladiatum	-	-
Fabaceae	Acacia rostellifera	-	-
Haemodoraceae	Conostylis candicans subsp. calcicola	-	-
Lamiaceae	Westringia dampieri	-	-
Malvaceae	Guichenotia ledifolia	-	-
	Agonis flexuosa	-	-
	Eucalyptus gomphocephala	-	-
	Eucalyptus sp.	-	-
Myrtaceae	Eucalyptus utilis	-	-
	Melaleuca huegelii	-	-
	Melaleuca lanceolata	-	-
	Melaleuca nesophila	-	-
Pittosporaceae	Pittosporum ligustrifolium	-	-
	*Cynodon dactylon	Permitted – s11	No
	Poa poiformis	-	-
	Poa sp.	-	-
Poaceae	Poaceae sp.	-	-
	*Rostraria cristata	Permitted – s11	No
	Sporobolus virginicus		-
	*Stenotaphrum secundatum	Permitted – s11	No

^{*}denotes weed status

4.3.2 Vegetation Types

Five vegetation types were identified and mapped within the Survey Area (Figure 2).

The remaining of the Survey Area included vegetation rehabilitation areas (0.22 ha, 5.68%) and cleared areas (0.13 ha, 3.40%).



Table 3: Vegetation Types

Vegetation Type Code and Description	Extent and Proportion within the Survey Area	Representative Photo
MICpAp: Melaleuca lanceolata and Callitris preissii tall shrubland over Acanthocarpus preissii, Guichenotia ledifolia, Conostylis candicans subsp. calcicola low open shrubland over Poaceae spp. and Poa sp. isolated tussock grasses over *Trachyandra divaricata and mixed weed spp.	0.29 ha 7.53%	
MIAp: Melaleuca lanceolata, *Casuarina glauca, Eucalyptus utilis and Melaleuca spp. tall open shrubland over Acanthocarpus preissii, Guichenotia ledifolia, Conostylis candicans subsp. calcicola low open shrubland over Poaceae spp. and Poa sp. isolated tussock grasses over *Trachyandra divaricata and mixed weed spp.	2.09 ha 54.17%	
Cg: *Casuarina glauca tall shrubland over Acanthocarpus preissii, Guichenotia ledifolia, Conostylis candicans subsp. calcicola low open shrubland over Poaceae spp. and Poa sp. isolated tussock grasses over *Trachyandra divaricata and mixed weed spp.	0.19 ha 4.83%	



Vegetation Type Code and Description	Extent and Proportion within the Survey Area	Representative Photo
Ap: Acanthocarpus preissii, Guichenotia ledifolia, Conostylis candicans subsp. calcicola low open shrubland over Poaceae spp. and Poa sp. isolated tussock grasses over *Trachyandra divaricata and mixed weed spp.	0.94 ha 24.32%	
Lg: Pittosporum ligustrifolium tall isolated shrubs over Lepidosperma gladiatum closed sedgeland over Acanthocarpus preissii, Guichenotia ledifolia and Poa sp.	<0.01 ha 0.10%	
Rehabilitation	0.22 ha 5.69%	
Cleared	0.13 ha 3.37%	N/A
Total	3.85 ha	N/A

4.3.3 Vegetation Condition

Vegetation condition within the Survey Area ranged from Good to Completely Degraded (Figure 3), including:

- Good (1.92 ha, 49.75%)
- Degraded (1.59 ha, 41.18%)
- Completely Degraded (0.35 ha, 9.06%).



Disturbances within the Survey Area comprised weeds, historical clearing to facilitate access tracks and infrastructure, and rehabilitation areas. Small portions of the Survey Area may have been considered in Very Good condition, however weed numbers were considered to be higher than they appeared due to the dry conditions. The understorey was heavily affected by weeds across the entire Survey Area.

4.3.4 Vegetation of Conservation Significance

The Banksia Woodlands of the Swan Coastal Plain ecological community identified by the database searches was not present within the Survey Area, as *Banksia* spp. were not recorded.

The State TEC SCP30a 'Callitris preissii (or Melaleuca lanceolata) forests and woodlands, Swan Coastal Plain', which is listed as Vulnerable is described as follows:

"The community is located on calcareous sandy soils of the Quindalup Dunes generally occurring between Craigie and Point Peron and on the Swan River in Peppermint Grove. The community also occurs on Garden Island and Penguin Islands. Species richness is naturally quite low in the community. Typical and common native taxa include: Callitris preissii (Rottnest Island pine), Melaleuca lanceolata (Rottnest Island Teatree), Spyridium globulosum (Basket Bush), Acanthocarpus preissii (Prickle Lily), Rhaqodia baccata (Berry Saltbush), Austrostipa flavescens (Spear-grass), and Trachymene pilosa (Native Parsnip)" (Department of Biodiversity Conservation and Attractions, 2020b).

Community type 30a is restricted to the Quindalup system, on which the Survey Area is located, and represented by forests and woodlands (Gibson et al., 1994). This community lists a further three taxa as being common, *Galium murale, *Asparagus asparagoides, and *Trachyandra divaricata.

Vegetation types MICpAp and MIAp were represented by *C. preissii* (MICpAp only) and *M. lanceolata*, which are the key taxa describing the SCP30a TEC, as well as the common community species *Acanthocarpus preissii*, and **Trachyandra divaricata*. For this reason, these vegetation types were considered analogous to the SCP30a TEC. Combined, these two vegetation types cover 2.38 ha (61.69%) of the Survey Area.

The remaining vegetation types did not support the key taxa *C. preissii* and *M. lanceolata* and therefore were not considered analogous to the TEC.



5 Discussion

5.1 Flora

Floristic diversity within the Survey Area was considered low. This was expected due to disturbances such as weeds, tracks and historic clearing, which have resulted in degraded vegetation condition within the Survey Area. The condition of the site was dry, which could be attributed to the below average rainfall recorded within the Survey Area in the three months prior to the field survey. Furthermore, the SCP30a TEC identified within the Survey Area is described as having low floristic diversity due to the dense overstorey with few understorey taxa (Department of Biodiversity Conservation and Attractions, 2020b; Gibson et al., 1994).

No conservation significant flora taxa were recorded within the Survey Area.

Six weed species were recorded in the Survey Area; however, none are listed as WoNS or DPs. The weed species recorded (*Casuarina glauca, *Cynodon dactylon, *Dittrichia graveolens, *Rostraria cristata, *Stenotaphrum secundatum and *Trachyandra divaricata) have a legal status of Permitted – s11, and do not have an assigned control category.

Weed species were ubiquitous throughout the Survey Area, which was expected due to vegetation condition and disturbances. The Survey Areas were not systematically grid searched, therefore additional weed species and abundance could be recorded with greater survey effort. *Trachyandra divaricata in particular was considered to be present in large numbers across the entirety of the Survey Area.

5.2 Vegetation

The vegetation of the Survey Area comprised remnant vegetation, native regrowth, planted natives and weed species.

The previous survey undertaken in June 2021 was inconclusive as to whether the vegetation in the south-eastern portion of the Survey Area was analogous to the TEC, the June 2021 Survey Area did not include any individuals of *C. preissii*. The current Survey Area included an expansion to the southeast which aided to confirm the presence of the TEC due to the key taxon *C. preissii*.

Two vegetation types within the Survey Area were considered analogous to the State TEC SCP30a 'Callitris preissii (or Melaleuca lanceolata) forests and woodlands, Swan Coastal Plain' ecological community. It was noted that areas of these vegetation types continued outside of the Survey Area to the south and east. Further advice can be sought from the Communities branch of the DBCA to confirm the presence and extent of this TEC within the Survey Area. Condition varied in these areas from Good to Degraded, as multiple other dominant (Melaleuca spp. and Eucalyptus spp.) individuals were present. However, across the general area the two descriptive tall shrubs (C. preissii and M. lanceolata) are considered to be generally dominant and should be treated holistically as a larger patch, analogous to the TEC.



Rehabilitation areas are considered to be Completely Degraded as the clearing laws only apply to native vegetation, whose definition in the EP Act does not include native species in a plantation. Under Section 51A of the EP Act, native vegetation does not include vegetation that is intentionally sown, planted or propagated unless:

- The vegetation was sown, planted or propagated as required under the EP Act or another written law; or
- It is declared to be native vegetation under the regulations.

Most of the Survey Area comprises native vegetation (3.50 ha, 90.94%). Additionally, the Survey Area is entirely mapped over an ESA and Conservation Area, and therefore may be subject to Native Vegetation regulations if clearing was proposed for the area.



6 Conclusion

- One Threatened flora taxon pursuant to the EPBC Act 1999 and/or gazetted as
 Threatened Flora pursuant to the BC Act 2016 was identified as occurring within
 10 km of the Survey Area by database searches, *Diuris micrantha* (Vulnerable). No
 Threatened flora taxa were recorded during the field survey.
- The database searches identified four Priority flora taxa as occurring within 10 km of the Survey Area. None were recorded within the Survey Area.
- Five introduced flora taxa were recorded during the survey. None of these are listed as Declared Pests under the BAM Act or WoNS.
- Five vegetation types were mapped within the Survey Area. Two vegetation types were considered analogous to the State TEC SCP30a 'Callitris preissii (or Melaleuca lanceolata) forests and woodlands, Swan Coastal Plain' ecological community.

We trust this meets your requirements. Should you have any questions or require further action please do not hesitate to contact Simon Colwill or the undersigned on (08) 9388 8360. We look forward to hearing from you.

For and on behalf of 360 Environmental Pty Ltd



Scott Walker – Principal Ecologist/Group Leader

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Figure 1: Survey Area

Figure 2: Vegetation Types and TEC Extent

Figure 3: Vegetation Condition



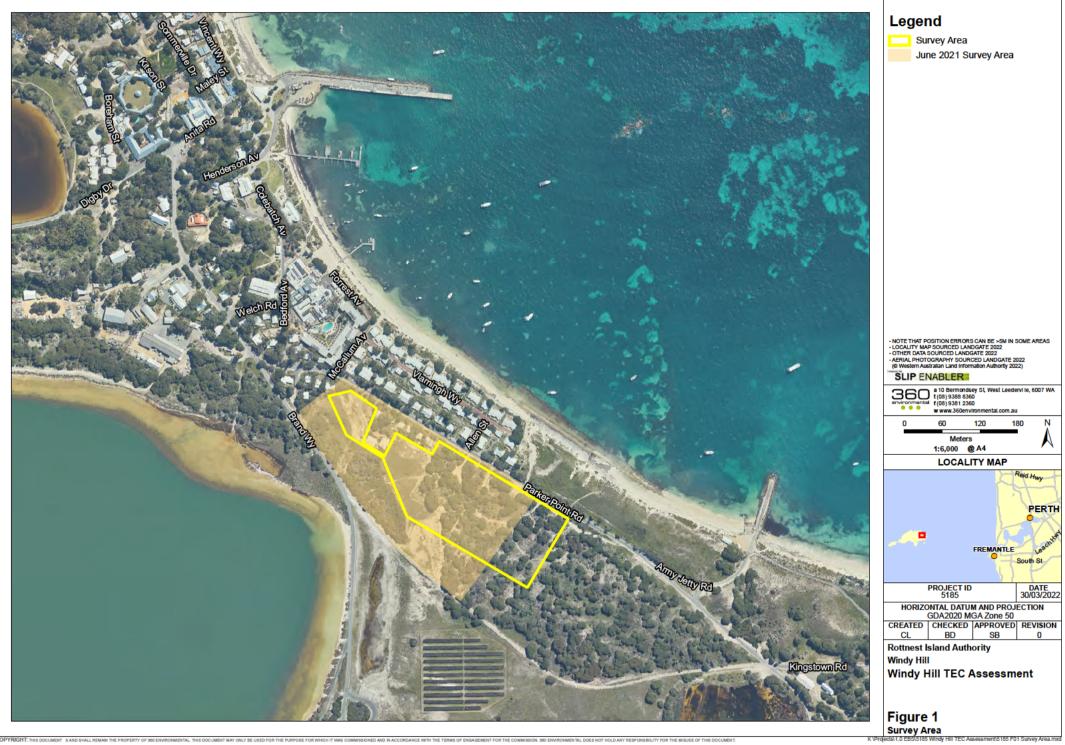
7 References

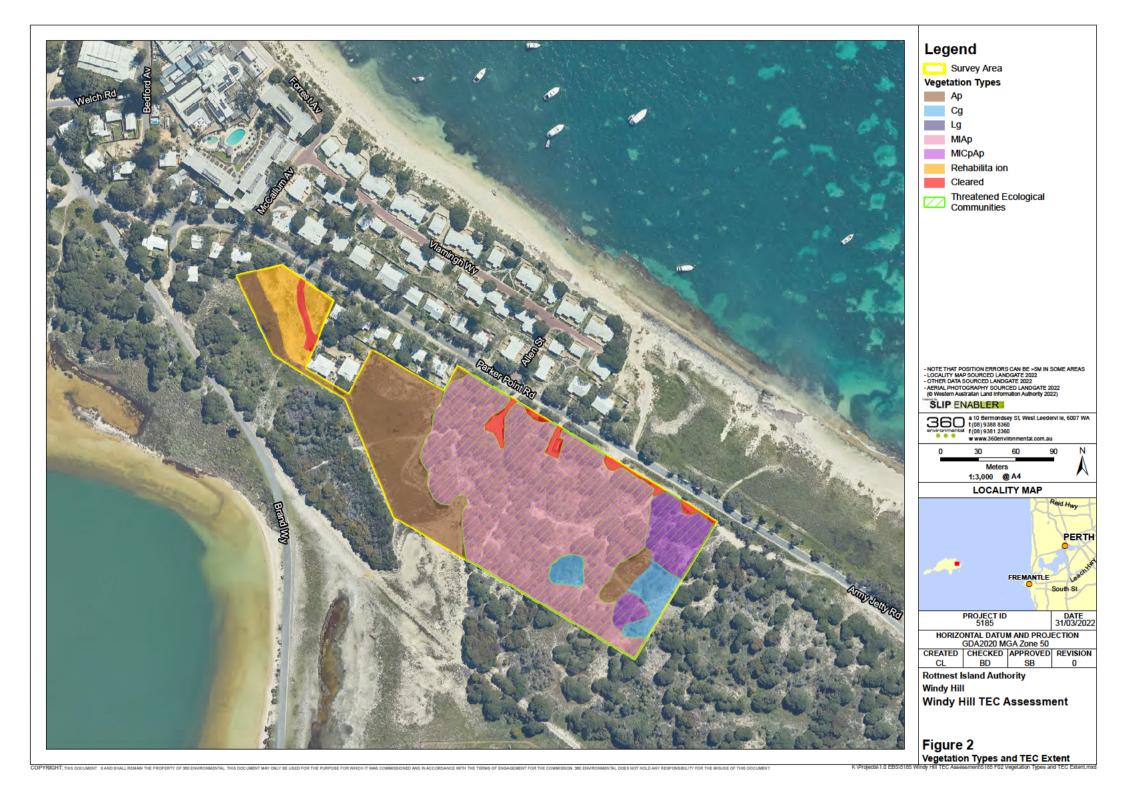
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Figures









Appendices



Appendix A NatureMap



NatureMap Species Report

Created By Guest user on 23/11/2020

Kingdom Plantae

Current Names Only Yes

Core Datasets Only Yes

Method 'By Circle'

Centre 115° 32' 05" E,31° 59' 26" S

Buffer 10km

Group By Family

Family	Species	Records
Acrotylaceae	3	10
Aizoaceae	4	18
Alliaceae	1	1
Amaranthaceae	1	4
Amaryllidaceae	4	8
Anadyomenaceae	2	8
Apiaceae	2	7
Apocynaceae	3	15
Araceae	1	9
Araliaceae	6	11
Arecaceae	4	4
Areschougiaceae	10	26 23
Asparagaceae	6 2	23 12
Asphodelaceae Astoraceae	27	80
Asteraceae Bignoniaceae	1	1
Bonnemaisoniaceae	2	13
Boodleaceae	2	13
	2	4
Boraginaceae Brassicaceae	10	35
Bryopsidaceae	5	5
	1	3
Campanulaceae	10	40
Caryophyllaceae Casuarinaceae	3	40 5
Casuarmaceae Caulerpaceae	21	103
Caulerpaceae Celastraceae	1	103
Centrolepidaceae	1	2
•	18	33
Ceramiaceae	3	
Champiaceae Chenopodiaceae	13	41
Cladophoraceae	10	25
Codiaceae	7	28
Colchicaceae	1	20
Convolvulaceae	2	9
Corallinaceae	11	68
Crassulaceae	7	16
Cupressaceae	1	4
Cymodoceaceae	4	8
Cyperaceae	12	25
Cystocloniaceae	5	12
Dasyaceae	5	5
Delesseriaceae	9	19
Derbesiaceae	1	1
Dichotomosiphonaceae	1	1
Dicranemataceae	2	8
Dilleniaceae	1	1
Droseraceae	1	2
Ericaceae	3	14
Euphorbiaceae	4	38
Fabaceae	12	48
Faucheaceae	2	2
Francoaceae	1	3
Frankeniaceae	1	1
Galaxauraceae	5	38
Gelidiaceae	4	27
Gentianaceae	4	11
Geraniaceae	4	11
Goodeniaceae	1	5
Gracilariaceae	5	13
Haemodoraceae	2	10
Halimedaceae	1	14
Helenenen	1	1
Haloragaceae Halymeniaceae	10	37
Hemerocallidaceae	2	2
Hydrocharitaceae	2	3
Hymenocladiaceae	2	4
	1	1
		19
Hypoxidaceae	6	
Hypoxidaceae Iridaceae	6	
Hypoxidaceae Iridaceae Juncaceae	2	2
Hypoxidaceae Iridaceae Juncaceae Juncaginaceae	2 4	2 11
Hypoxidaceae ridaceae Juncaceae Juncaginaceae Kallymeniaceae	2 4 5	2 11 8
Hypoxidaceae Iridaceae Juncaceae Juncaginaceae Kallymeniaceae Lamiaceae	2 4 5 1	2 11 8 7
Hypoxidaceae Hypoxidaceae Iridaceae Juncaceae Juncaginaceae Kallymeniaceae Lamiaceae Lagoraceae Logoraceae	2 4 5	2 11 8







TOTAL	552	1836
		-
Wrangeliaceae Zygophyllaceae	5 2	3
Valoniaceae	5	6
Urticaceae	3 1	22 2
Ulvaceae	3	7
Udoteaceae	4	13
Typhaceae	1	1
Tamaricaceae	1	3
Stylidiaceae	1	1
Spongitaceae	1	1
Solieriaceae	2	4
Solanaceae	5	20
Siphonocladaceae	4	8
Sebdeniaceae	1	3
Scrophulariaceae	5	24
Scinaiaceae	2	5
Schizymeniaceae	1	8
Sarcomeniaceae	1	1
Sapindaceae	1	1
Rutaceae	2	9
Ruppiaceae	2	6
Rubiaceae	1	13
Rhodymeniaceae	7	31
Rhodomelaceae	23	55
Rhamnaceae	2	12
Ranunculaceae Resedaceae	3 2	12 8
Pottiaceae Primulaceae	3 2	3 17
Potamogetonaceae	1	4
Posidoniaceae	2	3
Portulacaceae	1	1
Polyphysaceae	1	2
Polyidaceae	2	19
Polygalaceae	2	3
Poaceae	46	200
Plocamiaceae	4	7
Plantaginaceae	4	9
Pittosporaceae	1	11
Pinaceae	2	2
Phyllanthaceae	2	7
Phacelocarpaceae	2	2
Peyssonneliaceae	3	12
Oxalidaceae	3	7
Orobanchaceae	2	2
Orchidaceae	3	8
Oleaceae	1	3
Nizymeniaceae	2	5
Nitrariaceae	1	4
Myrtaceae	12	20
Mychodeaceae	2	3
Moraceae	5	9
Meliaceae Montiaceae	1 2	3 5
		_
Malvaceae	6	38





4, 278 Carpobrotus virescens (Coastal Pigface, Kolboko, Bain)		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1	Acrotylacea	е				
Alizonico		26456	Amphiplexia hymenocladioides			
A		26665	Claviclonium ovatum			
4	3.	26915	Hennedya crispa			
5. 28 15 Meanthropatherinan Copulation (Augusta) Y 6. 28 10 Tetrapona Security Copulation (Bourer Spinach) Y 7. 28 25 Tetrapona implicacorae (Bourer Spinach) Y Alliaceae 8 174 Allum ampretionasum Y 10 288 Femichnos portancha (Trailing Johnwoord) Y Amaryllidaceae 10 140 S. Locogium accilium (Showtolog) Y 11. 110 Ministrationa portancha (Trailing Johnwoord) Y 12. 141 Ministrationa portancha (Trailing Johnwoord) Y 13. 418 Ministrationa textesti (Intropal) Y 14. 20 37 Ministrational portancha (Intropal) Y 15. 20 37 Ministrational portancha (Intropal) Y 14. 20 37 Ministrational portancha (Intropal) Y 15. 20 37 Ministrational portancha (Intropal) Y 20 accesses 1 20 All Ministrations (Intropal portancha) Y 20 accesses 2 2 4 All Ministrations (Intropal portancha) Y 21 accesses 22 Ministrational portanch (Intropal portancha) Y Y	Aizoaceae					
1		2798	Carpobrotus virescens (Coastal Pigface, Kolboko, Bain)			
1.	5.			Υ		
Amarianthaces	6.			Υ		
### Alliam anipelioprasism 1	7.	2823	Tetragonia implexicoma (Bower Spinach)			
### Alliam anipelioprasism 1	Alliagaga					
Manay Manay Marie Marie Marie Marie Marie Marie Marie Manay Manay Marie Mari		1374	Allium ampeloprasum	Υ		
Manay Mana	Amaranthac	eae				
1493 Lencolum seathurn (Condehine)	9.	2689	Hemichroa pentandra (Trailing Jointweed)			
1493 Lencolum seathurn (Condehine)	A manullidae					
11-11 19-119 Incressus pagrymenus Y 1-11 19-119 Incressus pagrymenus Y 1-11 19-119 Incressus pagrymenus Y 1-119 Incressus Y 1-119 Incressus Y Incressus pagrymenus Y 1-119 Incressus Y Incressus pagrymenus	-					
1436 Marciasus tazelae (Jocquil) Y Anadyomenaceae						
Anadyoma coats Anadyoma coats 14. 8512 Microdiciyon okamurao 15. 2074 Microdiciyon okamurao 16. 8210 Aplum annuum 17. 6218 Daurus giochidaitus (Australian Carrol) Apocyanecae 18. 8657 Alyana buxilola (Dysentery Bush) 19. 8657 Osmphocapus futicosus (Narrowkeaf Cottonbush) y 20. 1858 Osmphocapus futicosus (Narrowkeaf Cottonbush) y 21. 1019 Zainedeachia aethiopica (Arum Lily) Araliaceae 22. 8224 Hydrocolyle blephanocarpa 23. 8229 Hydrocolyle blephanocarpa 24. 4023 Hydrocolyle blephanocarpa 25. 8228 Hydrocolyle blephanocarpa 26. 8228 Hydrocolyle blephanocarpa 27. 19041 Tachymene coerulea Buba, coerulea 28. 44 450 Pinonix canariensis (Carray Islands Date Palm) 30. 1910 Monitis canariensis (Carray Islands Date Palm) 31. Washingtonia Rillion 32. 8253 Callophycus dostfer 33. 8253 Gallophycus costatus 34. 8253 Callophycus dostfer 35. 8253 Gallophycus dostfer 36. 8253 Gallophycus dostfer 37. 8253 Callophycus dostfer 38. 8253 Gallophycus dostfer 39. 8253 Callophycus dostfer 39. 8254 Gallophycus costatus 30. 8256 Gallophycus dostfer 31. 8257 Algonospia spaniuss 32. 8258 Gallophycus costatus 33. 8256 Gallophycus dostfer 39. 8257 Callophycus dostfer 39. 8258 Callophycus dostfer 39. 8258 Callophycus populsticus 30. 8250 Callophycus costatus 30. 8250 Callophycus costatus						
Analdyomenaceae 1.4. \$123 Microdicyon okamurae 1.5. \$277 Microdicyon okamurae 1.6. \$270 Allorodicyon okamurae 1.7. \$218 Deutors glocholdeluse (Australian Carrol) Apocynaceae 1.8. \$210 Alpum annuum 1.9. \$287 Gomphocapus (Marrowleaf Cottonbush) 1.9. \$288 Singuista buxificia (Dysartery Bush) 1.9. \$289 Singuista Sing						
15.	13.	44496	Narcissus tazetta subsp. italicus	Y		
Apiaces Apiaces 16. 6210 Apiam annium 17. 6218 Daucus glochidiatus (Australian Camot) Apocynacesae 18. 6855 Afryla bunfolia (Dysenlery Bush) 19. 6857 Gomphocenpus fruicosus (Nerrowleaf Cottonbush) 20. 18356 Nerium oleander 21. 1049 Zantedeschia aethiopica (Anum Lify) 22. 6244 Hydrocotyle blephanocarpa 23. 6229 Hydrocotyle blephanocarpa 24. 6232 Hydrocotyle blephanocarpa 23. 6224 Hydrocotyle blephanocarpa 24. 6232 Hydrocotyle blephanocarpa 25. 6264 Hydrocotyle blephanocarpa 26. 6265 Tachymere coerulea Blite Lace Flower) 27. 19041 Trachymene coerulea Blite Lace Flower) 27. 19041 Trachymene coerulea Blite Lace Flower) 28. 44540 Phoenix danafisia (Canary Islands Date Palm) 30. 17910 Washingtonia filiana 31. Washingtonia robusta 48. 42640 Alberty (Sanary Islands Date Palm) 32. 2648 Afeschougia ligulata 33. 2633 Callophysus coetatia 34. 26340 Callophysus coetatia 35. 26550 Callophysus domfer 36. 26550 Callophysus coetatia 37. 26550 Callophysus shareyanus 38. 26550 Callophysus shareyanus 39. 2760 Meriachica papulosa 48. 2760 Machadonia ciuvigara 48. 2761 Machadonia ciuvigara 48. 2762 Machadonia ciuvigara 48. 2763 Callophysus shareyanus 48. 2760 Machadonia ciuvigara 48. 2761 Machadonia ciuvigara 48. 2762 Machadonia ciuvigara 48. 2763 Callophysus shareyanus 48. 2764 Machadonia ciuvigara 48. 2765 Callophysus shareyanus 48. 2764 Machadonia ciuvigara 48. 2765 Callophysus shareyanus 48. 2766 Machadonia ciuvigara 48. 2767 Machadonia ciuvigara 48. 2768 Machadonia ciuvigara 48. 2769 Machadonia ciuvigara 48. 2760 Machadonia ciuvigara 48. 2760 Machadonia ciuvigara 48. 2760 Machadonia ciuvigara 48. 2760 Machadonia ciuvigara 49. 2760 Machadonia 4			Microdictyon okamurae			
Apiaceae						
15.		2.014	y			
Apocymacese 18. 6865 Alyxie buxilolis (Dysentery Bush) 19. 6867 Gomphocarpus fruicosus (Narrowleaf Cottonbush) y 20. 18356 Nerium oleander y 21. 1049 Zentedeschia aethiopica (Arum Lily) y 34raceae 21. 1049 Zentedeschia aethiopica (Arum Lily) y 47 Araliaceae 22. 624 Hydrocotyle biepharocarpa 23. 6229 Hydrocotyle biepharocarpa 24. 1832 (Pridrocotyle biepharocarpa 25. 624 Hydrocotyle biepharocarpa 26. 626 Tachymane corrulea (Blue Lace Flower) 27. 1904 Trachymene corrulea (Blue Lace Flower) 28. 4450 (Proenix danylliera (Oter Pelm) y 30. 1910 Washingtonia fillifera y 31. V Washingtonia robusta (Pelm) y 31. V Washingtonia robusta (Pelm) y 32. 6484 Areschougia (Bjulata 33. 6263 Gallophycus dorsifer 33. 6263 Gallophycus dorsifer 34. 6263 Callophycus dorsifer 35. 6263 Callophycus dorsifer 36. 6263 Callophycus dorsifer 37. 6263 Ellophycus dorsifer 38. 6263 Gallophycus dorsifer 48. 6263 Gallophycus dorsifer 48. 6264 Gymrain distine 48. 6265 Gallophycus dorsifer	Apiaceae					
Recommendation Reco	16.	6210	Apium annuum			
18.	17.	6218	Daucus glochidiatus (Australian Carrot)			
18.	Anocynacea					
19.			Alucia huvifalia (Dugantan, Rugh)			
20. 1836 Nerium oleander Y Araceae 21. 1049 Zanledeschia aethiopica (Arum Lily) Y Aralliaceae 22. 6224 Hydrocotyle blepharocarpa				V		
Araciaces 21. 1049 Zantedeschia aethiopica (Arum Lify) y Araliacese 22. 6224 Hydrocoyle blepharocarpa 23. 6229 Hydrocoyle diantha 24. 6232 Eydrocoyle diantha 25. 6261 Hydrocoyle blepharocarpa 26. 6266 Trachymene coerulea (Blue Lace Flower) 27. 19041 Trachymene coerulea (Blue Lace Flower) 28. 44540 Phoenix canariensis (Canary Islands Date Palm) y 29. 1042 Phoenix dactylliera (Date Palm) y 30. 17910 Washingtonia fillera 31. Washingtonia fillera 32. 26484 Areschougia ligulata 33. 2653 Callophycus dorsder 34. 34. 26534 Callophycus dorsder 35. 26353 Callophycus dorsder 36. 26566 Callophycus dorsder 37. 36583 Callophycus dorsder 38. 2653 Callophycus dorsder 39. 27062 Meristotheca papulosa 40. 2710 Fhabdonia clavigera 41. 2720 Sacconema fillerme 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) y 44. 47094 Agave attenuata 45. 1637 Agave sisalana y 47 Y 48. 17910 Agave attenuata 46. 1637 Agave sisalana y 47 Y 48. 1505 Agave attenuata 47 Y 48. 17910 Agave attenuata 48 Agave sisalana y 49 Y 41 Y 45 Agave sisalana y 40 Y 41 Y 41 Y 42 Agave attenuata 48 Agave sisalana y 49 Y 41 Y 41 Y 41 Agave attenuata 49 Y 49 Y 41 Y 41 Agave attenuata 49 Y 40 Y 41						
21. 1049 Zantedeschia aethiopica (Arum Lily) Y	_	16336	rvenum oleander	Y		
22. 6224 Hydrocotyle biepharocarpa	21.	1049	Zantedeschia aethiopica (Arum Lily)	Υ		
22. 6224 Hydrocotyle biepharocarpa	A					
23. 6229 Hydrocotyle diantha						
24. 6232						
25. 624 Hydrocotyle tetragonocarpa						
26. 6266 Trachymene coerulea (Blue Lace Flower) 27. 19041 Trachymene coerulea subsp. coerulea Arecaceae 28. 4454 Phoenix canariensis (Canary Islands Date Palm) Y 29. 1042 Phoenix dactylifera (Date Palm) Y 30. 17910 Washingtonia filifera Y Areschougiaceae 32. 2648 Areschougia ligulata 33. 2653 Callophycus costatus 34. 2653 Callophycus costatus 35. 2653 Callophycus dorsifer 36. 2653 Callophycus oppositiolius 37. 26823 Erythroctonium sonderi 38. 2653 Ciguntina disticha 39. 2762 Meristotheae papulosa 40. 27210 Rhabonia clavigera 41. 2723 Sarconema filiforme 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata 47. 47094 Agave attenuata 48. 1837 Agave sislana 49. 9 Agave sislana 40. 1370 Pintogalum arabicum (Lesser Cape Lily)						
Arecaceae 28. 4450 Phoenix canariensis (Canary Islands Date Palm) Y 29. 1042 Phoenix dactylifera (Date Palm) Y 30. 17910 Washingtonia filifera Y 31. Washingtonia robusta Y Areschougiaceae 32. 2643 Areschougia ligulata 33. 26533 Callophycus costatus 34. 2653 Callophycus costatus 35. 2653 Callophycus dorsifer 35. 2653 Callophycus opositriolius 37. 2653 Callophycus opositriolius 37. 2653 Callophycus opositriolius 38. 2653 Callophycus opositriolius 39. 2706 Meristotheca papulosa 40. 27210 Rhabdonia clavigera 41. 2723 Sarconema filiforme Asparagaceae 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave americana (Century Plant) 45. 18379 Agave sisalana Y Mittogalum arabicum (Lesser Cape Lily)						
28. 4450 Phoenix canariensis (Canary Islands Date Palm) Y 29. 1042 Phoenix dactylifera (Date Palm) Y 30. 1791 Washingtonia filifera Y Areschougiaceae Y 32. 2648 Areschougia ligulata **** 33. 2653 Callophycus costatus *** 34. 2653 Callophycus dorsifer *** 35. 2653 Callophycus dorsifer *** 36. 2653 Callophycus popositifolius *** 37. 2683 Callophycus oppositifolius *** 38. 26854 Gigartina disticha *** 39. 2702 Invitrocinium sonderi *** 40. 2721 Rhabdonia clavigera *** 41. 2730 Sarconema filiforme Asparagaceae 42. 120 Acanthocarpus preisii 43. 150 Agave americana (Century Plant) Y 44. 47094 Agave ateinuata Y 45. 1839 Agave sisalana Y 46. 1312 Onithogalum arabicum (Lesser Cape Lily) Y	27.	19041	Trachymene coerulea subsp. coerulea			
28. 4450 Phoenix canariensis (Canary Islands Date Palm) Y 29. 1042 Phoenix dactylifera (Date Palm) Y 30. 1791 Washingtonia filifera Y Areschougiaceae Y 32. 2648 Areschougia ligulata **** 33. 2653 Callophycus costatus *** 34. 2653 Callophycus dorsifer *** 35. 2653 Callophycus dorsifer *** 36. 2653 Callophycus popositifolius *** 37. 2683 Callophycus oppositifolius *** 38. 26854 Gigartina disticha *** 39. 2702 Invitrocinium sonderi *** 40. 2721 Rhabdonia clavigera *** 41. 2730 Sarconema filiforme Asparagaceae 42. 120 Acanthocarpus preisii 43. 150 Agave americana (Century Plant) Y 44. 47094 Agave ateinuata Y 45. 1839 Agave sisalana Y 46. 1312 Onithogalum arabicum (Lesser Cape Lily) Y	Arecaceae					
29. 1042 Phoenix dactylifera (Date Palm) Y 30. 17910 Washingtonia filifera Y Areschougiaceae Y 32. 26484 Areschougia ligulata *** 33. 26533 Callophycus costatus *** 34. 26544 Callophycus dostifer *** 35. 26535 Callophycus harveyanus *** 36. 26536 Callophycus oppositifolius *** 37. 26823 Erythroclonium sonderi *** 38. 26854 Gigartina disticha *** 39. 27062 Meristotheca papulosa *** 41. 2723 Sarconema filiforme *** Asparagaceae *** *** 42. 1208 Acanthocarpus preissii *** 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y 46. 13		44540	Phoenix canariensis (Canary Islands Date Palm)	Υ		
30. 17910 Washingtonia filifiera Y						
National Color			, , ,			
Areschougiaceae 32. 26484 Areschougia ligulata 33. 26533 Callophycus costatus 34. 26534 Callophycus dorsifer 35. 26535 Callophycus harveyanus 36. 26536 Callophycus oppositifolius 37. 26823 Erythroclonium sonderi 38. 26854 Gigartina disticha 39. 27062 Meristotheca papulosa 40. 27210 Rhabdonia clavigera 41. 27230 Sarconema filiforme Asparagaceae 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y Agave sisalana Y Y 46. 1372 Omithogalum arabicum (Lesser Cape Lily)			-	·		Υ
32. 26484 Areschougia ligulata 33. 26533 Callophycus costatus 34. 26534 Callophycus dorsifer 35. 26535 Callophycus harveyanus 36. 26536 Callophycus oppositifolius 37. 26823 Erythroclonium sonderi 38. 26854 Gigartina disticha 39. 27062 Meristotheca papulosa 40. 27210 Rhabdonia clavigera 41. 27230 Sarconema filiforme Asparagaceae 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 47094 Agave sisalana Y Y Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily)			•			
33. 26533 Callophycus costatus 34. 26534 Callophycus dorsifer 35. 26535 Callophycus harveyanus 36. 26536 Callophycus oppositifolius 37. 26823 Erythroclonium sonderi 38. 26854 Gigartina disticha 39. 27062 Meristotheca papulosa 40. 27210 Rhabdonia clavigera 41. 27230 Sarconema filiforme 42. <tb>1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y</tb>						
34. 26534 Callophycus dorsifer 35. 26535 Callophycus harveyanus 36. 26536 Callophycus oppositifolius 37. 26823 Erythroclonium sonderi 38. 26854 Gigartina disticha 39. 27062 Meristotheca papulosa 40. 27210 Rhabdonia clavigera 41. 27230 Sarconema filiforme 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y						
35. 2653 Callophycus harveyanus 36. 2653 Callophycus oppositifolius 37. 26823 Erythroclonium sonderi 38. 26854 Gigartina disticha 39. 27062 Meristotheca papulosa 40. 27210 Rhabdonia clavigera 41. 27230 Sarconema filiforme Asparagaceae 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) 44. 47094 Agave attenuata 47. 47. 47. 47. 47. 47. 47. 47. 47. 47.						
36. 26536 Callophycus oppositifolius 37. 26823 Erythroclonium sonderi 38. 26854 Gigartina disticha 39. 27062 Meristotheca papulosa 40. 27210 Rhabdonia clavigera 41. 27230 Sarconema filiforme 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y						
37. 26823 Erythroclonium sonderi 38. 26854 Gigartina disticha 39. 27062 Meristotheca papulosa 40. 27210 Rhabdonia clavigera 41. 27230 Sarconema filiforme Asparagaceae 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y						
38. 26854 Gigartina disticha 39. 27062 Meristotheca papulosa 40. 27210 Rhabdonia clavigera 41. 27230 Sarconema filiforme Asparagaceae 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y						
39. 27062 Meristotheca papulosa 40. 27210 Rhabdonia clavigera 41. 27230 Sarconema filiforme Asparagaceae 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y	37.	26823	Erythroclonium sonderi			
40. 27210 Rhabdonia clavigera 41. 27230 Sarconema filiforme Asparagaceae 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y	38.	26854	Gigartina disticha			
41. 27230 Sarconema filiforme Asparagaceae 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y	39.	27062	Meristotheca papulosa			
Asparagaceae 42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y	40.	27210	Rhabdonia clavigera			
42. 1208	41.	27230	Sarconema filiforme			
42. 1208 Acanthocarpus preissii 43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y	A en a radace	20				
43. 1505 Agave americana (Century Plant) Y 44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y			Acanthocarnus projecii			
44. 47094 Agave attenuata Y 45. 18379 Agave sisalana Y Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y				V.		
45. 18379 Agave sisalana Y Y 46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y						
46. 1372 Ornithogalum arabicum (Lesser Cape Lily) Y						
· · · · · · · · · · · · · · · · · · ·						Y
47. 1343 Thysanotus patersonii				Υ		
	47.	1343	I nysanotus patersonii			

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







48. 49. Asteraceae 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62.	7833 7838 7839 7841 7909 7916 7937	Asphodelus fistulosus (Onion Weed) Trachyandra divaricata Angianthus preissianus Arctotheca calendula (Cape Weed, African Marigold) Arctotheca populifolia (Dune Arctotheca, Beach Pumpkin, Coast Capeweed, Beach Daisy) Argyranthemum frutescens (Marguerite)	Y Y Y		Area
50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61.	7833 7838 7839 7841 7909 7916 7937	Angianthus preissianus Arctotheca calendula (Cape Weed, African Marigold) Arctotheca populifolia (Dune Arctotheca, Beach Pumpkin, Coast Capeweed, Beach Daisy)	Y Y		
50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61.	7838 7839 7841 7909 7916 7937	Arctotheca calendula (Cape Weed, African Marigold) Arctotheca populifolia (Dune Arctotheca, Beach Pumpkin, Coast Capeweed, Beach Daisy)	Υ		
50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61.	7838 7839 7841 7909 7916 7937	Arctotheca calendula (Cape Weed, African Marigold) Arctotheca populifolia (Dune Arctotheca, Beach Pumpkin, Coast Capeweed, Beach Daisy)	Υ		
52. 53. 54. 55. 56. 57. 58. 59. 60. 61.	7839 7841 7909 7916 7937	Arctotheca populifolia (Dune Arctotheca, Beach Pumpkin, Coast Capeweed, Beach Daisy)	Υ		
53. 54. 55. 56. 57. 58. 59. 60.	7841 7909 7916 7937	Daisy)			
54. 55. 56. 57. 58. 59. 60.	7909 7916 7937				
54. 55. 56. 57. 58. 59. 60.	7909 7916 7937	Argyranthemum frutescens (Marguerite)			
55. 56. 57. 58. 59. 60.	7916 7937	0	Y		
56. 57. 58. 59. 60.	7937	Carduus pycnocephalus (Slender Thistle)	Y		
57. 58. 59. 60. 61.		Centaurea melitensis (Maltese Cockspur, Malta Thistle) Cirsium vulgare (Spear Thistle, Scotch Thistle)	Y		
58. 59. 60. 61.		Conyza bonariensis (Flaxleaf Fleabane)	Y		
60. 61.	7941	Conyza parva	Y		
61.		Conyza sumatrensis	Y		
	7943	Cotula australis (Common Cotula)			
62.	7944	Cotula bipinnata (Ferny Cotula)	Υ		
	7945	Cotula coronopifolia (Waterbuttons)	Υ		
63.		Dittrichia graveolens (Stinkwort)	Υ		
64.		Gamochaeta calviceps	Υ		
65.		Gnaphalium indutum (Tiny Cudweed)	.,		
66. 67		Hypochaeris glabra (Smooth Catsear)	Y		
67. 68.		Leucophyta brownii	Υ		
69.		Millotia myosotidifolia			
70.		Olearia axillaris (Coastal Daisybush)			
71.		Podotheca angustifolia (Sticky Longheads)			
72.		Senecio pinnatifolius var. latilobus			
73.		Senecio pinnatifolius var. maritimus (Coastal Groundsel)			
74.	8230	Sonchus asper (Rough Sowthistle)	Υ		
75.	8231	Sonchus oleraceus (Common Sowthistle)	Υ		
76.	13328	Waitzia nitida			
Bignoniaceae					
77.		Tecoma stans	Υ		
	-!				
Bonnemaisor					
78. 79.		Asparagopsis taxiformis Delisea pulchra			
		Denote parenta			
Boodleaceae					
80.		Phyllodictyon anastomosans			
81.	2/318	Struvea plumosa			
Boraginacea	е				
82.	6707	Heliotropium curassavicum (Smooth Heliotrope)			
83.	6722	Myosotis australis (Southern Forget-me-not)		P4	
Brassicaceae	•				
84.	3002	Cakile maritima (Sea Rocket)	Υ		
85.		Cardamine hirsuta (Common Bittercress)	Y		
86.		Diplotaxis muralis (Wall Rocket)	Υ		
87.	3016	Heliophila pusilla	Υ		
88.	18137	Hornungia procumbens	Υ		
89.		Lepidium didymum	Υ		
90.		Lepidium foliosum (Leafy Peppercress)			
91.		Lepidium puberulum		P4	
92.		Raphanus raphanistrum (Wild Radish)	Y		
93.	3072	Sisymbrium orientale (Indian Hedge Mustard)	Υ		
Bryopsidacea	ae				
94.		Bryopsis australis			
95.		Bryopsis gemellipara			
96.		Bryopsis macraildii			
97.		Bryopsis plumosa			
98.	27191	Pseudobryopsis hainanensis			
ampanulace	eae				
99.		Lobelia anceps (Angled Lobelia)			
~ ~ Ill da ~ / Apr.		Aranaria lantaclados	v		
		Arenaria leptoclados Cerastium balearicum	Y Y		
100.			1		
101.		Cerastium domeratum (Mouse Far Chickwood)	V		
100.	2889	Cerastium glomeratum (Mouse Ear Chickweed) Minuartia mediterranea	Y		



		Species Name	Naturalised	Conservation Code	Endemic To Q Area
104.	2005	Polycarpon tetraphyllum (Fourleaf Allseed)	Y Y		
104.					
		Sagina apetala (Annual Pearlwort) Sagina maritima	Y		
106. 107.		-	Y		
		Silene nocturna (Mediterranean Catchfly)			
108. 109.		Stellaria media (Chickweed)	Y		
109.	20397	Stellaria pallida	Y		
suarinacea					
110.		Casuarina equisetifolia	Y		
111.		Casuarina glauca	Y		
112.	1742	Casuarina obesa (Swamp Sheoak, Kuli)			
ulerpaceae					
113.		Caulerpa articulata			
114.	26556	Caulerpa cactoides			
115.		Caulerpa cupressoides			
116.		Caulerpa cupressoides var. cupressoides			
117.		Caulerpa cylindracea			
118.		Caulerpa ellistoniae			
119.		Caulerpa fergusonii			
120.		Caulerpa flexilis			
121.		Caulerpa flexilis var. muelleri			
121.		Caulerpa geminata			
123.		Caulerpa hedleyi			
123.		Caulerpa heterophylla			
125.		Caulerpa Ineteropriyila Caulerpa lentillifera			
126.					
120.		Caulerpa longifolia forma crispata			
127.		Caulerpa obscura			
		Caulerpa papillosa			
129.		Caulerpa parvifolia			
130.		Caulerpa scalpelliformis			
131.		Caulerpa sedoides			
132. 133.		Caulerpa simpliciuscula Caulerpa taxifolia var. distichophylla			
astraceae					
134.	9070	Stackhousia pubescens (Downy Stackhousia)			
ntrolepidad	eae				
ntrolepidao 135.		Centrolepis polygyna (Wiry Centrolepis)			
135.		Centrolepis polygyna (Wiry Centrolepis)			
135.	1134				
135. ramiaceae 136.	1134 26447	Acrothamnion preissii			Y
135. ramiaceae 136. 137.	1134 26447 26465	Acrothamnion preissii Anisoschizus propaguli			Y
135. ramiaceae 136. 137. 138.	1134 26447 26465 27374	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum			Y Y
135. ramiaceae 136. 137. 138. 139.	26447 26465 27374 26475	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides			Υ
135. ramiaceae 136. 137. 138. 139. 140.	26447 26465 27374 26475 26500	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta			
135. ramiaceae 136. 137. 138. 139. 140. 141.	26447 26465 27374 26475 26500 26511	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142.	26447 26465 27374 26475 26500 26511 26587	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143.	26447 26465 27374 26475 26500 26511 26587 26593	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144.	26447 26465 27374 26475 26500 26511 26587 26593 26599	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145.	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146.	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600 26797	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147.	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600 26797 26829	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148.	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600 26797 26829 26830	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148.	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600 26797 26829 26830 26887	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150.	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600 26797 26829 26830 26887 27194	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150.	26447 26465 27374 26475 26500 26511 26587 26599 26600 26797 26829 26830 26887 27194	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151.	26447 26465 27374 26475 26500 26511 26587 26599 26600 26797 26829 26830 26887 27194 27286 27309	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152.	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600 26797 26829 26830 2687 27194 27286 27309 27310	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152.	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600 26797 26829 26830 2687 27194 27286 27309 27310	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152.	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600 26797 26829 26830 26887 27194 27286 27309 27310	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. ampiaceae	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600 26797 26829 26830 26887 27194 27286 27309 27310	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium puberulum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides Spyridia filamentosa			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. ampiaceae 154.	26447 26465 27374 26475 26500 26511 26587 26599 26600 26797 26829 26830 26874 27194 27286 27309 27310	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides Spyridia filamentosa Champia affinis			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. ampiaceae 154. 155. 156.	26447 26465 27374 26475 26500 26511 26587 26599 26600 26797 26829 26830 26887 27194 27286 27309 27310	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides Spyridia filamentosa Champia affinis Champia compressa			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. ampiaceae 154. 155. 156.	26447 26465 27374 26475 26500 26511 26587 26599 26600 26797 26829 26830 26887 27194 27286 27309 27310	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides Spyridia filamentosa Champia affinis Champia compressa			Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. ampiaceae 154. 155. 156. enopodiac	26447 26465 27374 26475 26500 26511 26587 26599 26600 26797 26829 26830 26887 27194 27286 27309 27310 26616 26617 26619	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides Spyridia filamentosa Champia affinis Champia compressa Champia stipitata			Y
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. ampiaceae 154. 155. 156. enopodiace 157.	26447 26465 27374 26475 26500 26511 26587 26593 26599 26600 26797 26829 26830 26887 27194 27286 27309 27310 26616 26617 26619 eae	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides Spyridia filamentosa Champia affinis Champia compressa Champia stipitata Atriplex cinerea (Grey Saltbush)	Y		Y
ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. ampiaceae 154. 155. 156. enopodiace 157. 158.	26447 26465 27374 26475 26500 26511 26587 26593 26699 26829 26830 26887 27194 27286 27309 27310 26616 26617 26619 2452 2463 2494	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides Spyridia filamentosa Champia affinis Champia compressa Champia stipitata Atriplex cinerea (Grey Saltbush) Atriplex isatidea (Coast Saltbush)	Y		Y
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. ampiaceae 154. 155. 156. enopodiace 157. 158. 159.	26447 26465 27374 26475 26500 26511 26587 26593 26699 26829 26830 26887 27194 27286 27309 27310 26616 26617 26619 2452 2463 2494 12064	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides Spyridia filamentosa Champia affinis Champia compressa Champia stipitata Atriplex cinerea (Grey Saltbush) Atriplex isatidea (Coast Saltbush) Chenopodium murale (Nettle-leaf Goosefoot)	Y		Υ
135. ramiaceae 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. ampiaceae 154. 155. 156. enopodiac 157. 158. 159. 160.	26447 26465 27374 26475 26500 26511 26587 26593 26699 26600 26797 26829 26830 26887 27194 27286 27309 27310 26616 26617 26619 2452 2463 2494 12064 2578	Acrothamnion preissii Anisoschizus propaguli Anotrichium tenue var. thyrsigerum Antithamnion hanovioides Balliella hirsuta Bornetia binderiana Centroceras clavulatum Ceramium filicula Ceramium puberulum Ceramium pusillum Drewiana nitella Euptilocladia spongiosa Euptilota articulata Guiryella repens Psilothallia striata Spermothamnion miniatum Spyridia dasyoides Spyridia filamentosa Champia affinis Champia compressa Champia stipitata Atriplex cinerea (Grey Saltbush) Atriplex isatidea (Coast Saltbush) Chenopodium murale (Nettle-leaf Goosefoot) Enchylaena tomentosa var. tomentosa (Barrier Saltbush)	F43	t of Biodiversity,	Y



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quer
163.	11930	Rhagodia baccata subsp. dioica (Sea Berry Saltbush)			Aicu
164.	48433	Salicornia blackiana			
165.	48430	Salicornia quinqueflora			
166.	2639	Suaeda australis (Seablite)			
167.	33236	Tecticornia halocnemoides (Shrubby Samphire)			
168.	33319	Tecticornia indica subsp. bidens			
169.	2644	Threlkeldia diffusa (Coast Bonefruit)			
N					
Cladophorace					
170.		Apjohnia laetevirens			
171.		Chaetomorpha aerea			
172.		Cladophora albida			
173.		Cladophora dalmatica			
174.		Cladophora laetevirens			
175.	26654	Cladophora lehmanniana			
176.	26656	Cladophora prolifera			
177.	48667	Cladophora rhizoclonioidea			
178.	48668	Cladophora subsimplex			
179.	26659	Cladophora valonioides			
Codiaceae					
180.	26674	Codium duthicae			
		Codium duthieae			
181.		Codium galeatum			
182.		Codium luminarioides			
183.		Codium lucasii			
184.		Codium muelleri			
185.		Codium perriniae			
186.	26683	Codium spongiosum			
Colchicaceae					
187.		Wurmbea monantha			
107.	1556	Trainisea monana			
Convolvulace	ae				
188.	6616	Dichondra repens (Kidney Weed)			
189.	6659	Wilsonia humilis (Silky Wilsonia)			
Corallinaceae					
190.		Amphiroa anceps			
191.		Amphiroa gracilis			
192.		Jania affinis			
193.		Jania micrarthrodia			
194.	36141	Jania pulchella			
195.	48292	Jania rosea			
196.	26988	Jania verrucosa			
197.	27067	Metagoniolithon chara			
198.	27068	Metagoniolithon radiatum			
199.	27069	Metagoniolithon stelliferum			
200.	27070	Metamastophora flabellata			
Pranculación.					
Crassulaceae		Occasida dell'acto (Decesa Otanocca)			
201.		Crassula colorata (Dense Stonecrop)			
202.		Crassula colorata var. colorata			
203.		Crassula decumbens (Rufous Stonecrop)			
204.		Crassula decumbens var. decumbens			
205.		Crassula giomerata	Υ		
206.		Crassula natans var. minus	Υ		
207.	11345	Crassula thunbergiana subsp. thunbergiana	Υ		
Cupressaceae					
208.		Callitris preissii (Rottnest Island Pine, Maro)			
200.	30	Samuro prototo (1 totalost loialia / IIIC, IVIAIO)			
Cymodoceace	eae				
209.		Amphibolis antarctica (Sea Nymph)			
210.	127	Amphibolis griffithii			
211.		Syringodium isoetifolium			
212.		Thalassodendron pachyrhizum			
_		• •			
Cyperaceae					
213.		Baumea juncea (Bare Twigrush)			
	43241	Carex thecata			
214.	20216	Ficinia nodosa (Knotted Club Rush)			
214. 215.		Gahnia trifida (Coast Saw-sedge)			
	907	Canna amaa (Coast Saw-Seage)			
215.		Isolepis cernua var. setiformis			
215. 216.	20200				
215. 216. 217.	20200 917	Isolepis cernua var. setiformis	<i>p.</i> 2	of Biodiversity.	



ı	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
220.	933	Lepidosperma gladiatum (Coast Sword-sedge, Kerbin)			Alea
221.		Lepidosperma pubisquameum			
222.		Lepidosperma squamatum			
223.		Schoenus humilis			
224.					
224.	1004	Schoenus nitens (Shiny Bog-rush)			
Cystocloniac	eae				
225.		Hypnea charoides			
226.		Hypnea cornuta			
227.		Hypnea musciformis			
228.		Hypnea ramentacea			
229.		Hypnea valentiae			
Dasyaceae	20373	турпеа частнае			
230.	26738	Dasya elongata			
231.					
		Dasya villosa			
232.		Heterosiphonia callithamnium			
233. 234.		Heterosiphonia crassipes Heterosiphonia wrangelioides			
Delesseriace	ae				
235.	26622	Chauviniella coriifolia			
236.		Haraldiophyllum erosum			
237.		Hemineura frondosa			
238.		Heterodoxia denticulata			
239.		Hypoglossum revolutum			
240.		Martensia australis			
241.		Martensia denticulata			
242.		Platyclinia ramosa			Υ
243.	27146	Platysiphonia hypneoides			
Derbesiaceae		Pedobesia clavaeformis			
* **	25				
Dichotomosi	phonac	eae			
245.	26497	Avrainvillea clavatiramea			
Dievensor					
Dicranematac					
246.		Dicranema revolutum			
247.	27347	Tylotus obtusatus			
Dilleniaceae 248.	5162	Hibbertia racemosa (Stalked Guinea Flower)			
Droseraceae					
249.	3128	Drosera ramellosa (Branched Sundew)			
Ericaceae					
250.		Acrotriche cordata (Coast Ground Berry)			
251.	6405	Leucopogon insularis			
252.	6427	Leucopogon parviflorus (Coast Beard-heath)			
Funborbioss	30				
Euphorbiacea		December of the second (Pinlament)			
253.		Beyeria viscosa (Pinkwood)			
254.		Euphorbia paralias (Sea Spurge)	Υ		
255.	4638	Euphorbia peplus (Petty Spurge)	Υ		
256.	4705	Ricinus communis (Castor Oil Plant)	Υ		
Fabaceae					
	2202	Acacia avelone (Caastal Wattle)			
257.		Acacia cyclops (Coastal Wattle)			
258.		Acacia littorea			
259.		Acacia rostellifera (Summer-scented Wattle)			
260.		Acacia truncata			
261.	48860	Erythrostemon gilliesii	Υ		
262.	4079	Medicago polymorpha (Burr Medic)	Υ		
263.	4080	Medicago sativa (Alfalfa)	Υ		
264.		Melilotus indicus	Υ		
265.		Templetonia retusa (Cockies Tongues)			
266.		Trifolium suffocatum (Suffocated Clover)	Υ		
267.		Trifolium tomentosum (Woolly Clover)	Y		
268.		Trifolium tomentosum var. tomentosum	Y		
Faucheaceae					
269.		Gloiocladia halymenioides			
270.	27361	Webervanbossea kaliformis			

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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quer Area
Francoaceae					
271.	4785	Melianthus major	Υ		
rankeniace	ae				
272.	5209	Frankenia pauciflora (Seaheath)			
Salavauraaa					
Galaxaurace 273.		Diahatamaria marajnata			
273. 274.		Dichotomaria marginata Dichotomaria obtusata			
274.		Dichotomaria spathulata			
275. 276.		Galaxaura rugosa			
277.		Tricleocarpa cylindrica			
211.	27340	Tholocoarpa cymrunca			
Gelidiaceae					
278.	26847	Gelidium australe			Υ
279.	26849	Gelidium pusillum			
280.	27195	Pterocladia lucida			
281.	27206	Ptilophora prolifera			
Gentianacea	е				
282.		Centaurium erythraea (Common Centaury)	Υ		
283.		Centaurium pulchellum	Y		
284.		Centaurium tenuiflorum	Y		
285.		Schenkia australis			
Geraniaceae		Fradium ciastarium (Camman C) - destain			
286.		Erodium cicutarium (Common Storksbill)	Y		
287.		Geranium molle (Dove s Foot Cranesbill)	Y		
288.		Pelargonium capitatum (Rose Pelargonium)	Y		
289.	4346	Pelargonium littorale			
Goodeniacea	ae				
290.	7606	Scaevola crassifolia (Thick-leaved Fan-flower)			
Gracilariacea	20				
		Crease assuradate			
291. 292.		Crassa secundata Curdiea obesa			
292.					
293.		Gracilaria blodgettii Gracilaria preissiana			
295.		Gracilaria salicornia			
200.	200.0	Cracinana canconna			
Haemodorac					
296.		Conostylis candicans (Grey Cottonhead)			
297.	12027	Conostylis candicans subsp. calcicola			
Halimedacea	ae				
298.	47213	Halimeda versatilis			
Haloragacea		0 44 14			
299.	6161	Gonocarpus pithyoides			
Halymeniace	eae				
300.		Carpopeltis elata			
301.		Carpopeltis phyllophora			
302.		Carpopeltis spongeaplexus			
303.		Codiophyllum flabelliforme			
304.		Cryptonemia kallymenioides			
305.		Epiphloea bullosa			
306.	26850	Gelinaria ulvoidea			
307.	36701	Grateloupia subpectinata			
308.		Halymenia floresii			
309.	48666	Halymenia harveyana			
Hemerocallic	dacooo				
		Johnsonia nuhossona suhan nuhossona			
310. 311.		Johnsonia pubescens subsp. pubescens Phormium tenax	V		
311.	43300	i nomium (Grax	Υ		
Hydrocharita	aceae				
312.	164	Halophila ovalis (Sea Wrack)			
313.	166	Hydrilla verticillata (Water Thyme)			
Hymenoolod	iaceae				
Hymenoclad 314.		Erythrymenia minuta			
314.					
J10.	20901	Hymenocladia conspersa			
Hypoxidacea	ae				
316.		Pauridia glabella			

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	ame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que
Iridaceae					Alea
317.	1515	Ferraria crispa (Black Flag)	Υ		
318.		Ferraria crispa subsp. crispa	Y		
319.		Iris germanica (Flag Iris)	Y		
320.					
		Moraea flaccida (One-leaf Cape Tulip)	Y		
321.		Moraea miniata (Two-leaf Cape Tulip)	Υ		
322.	11544	Romulea rosea var. australis (Guildford Grass)	Υ		
Juncaceae					
323.	1178	Juncus bufonius (Toad Rush)	Υ		
324.	11922	Juncus kraussii subsp. australiensis			
Juncaginacea	_				
_		Triplantia minutinaima			
325.		Triglochin minutissima			
326.		Triglochin mucronata			
327.		Triglochin striata			
328.	152	Triglochin trichophora			
Kallymeniacea	16				
329.		Australiallymania ragnaia			V
		Austrokallymenia roensis			Υ
330.		Glaphyrymenia pustulosa			
331.		Kallymenia spinosa			Y
332.		Leiomenia cribrosa			
333.	48423	Stauromenia lacerata			
Lamiaceae 334.	6939	Westringia dampieri			
liamaraaaa					
Liagoraceae	00704	Debugging abbetter			
335.		Dotyophycus abbottiae			
336.		Ganonema farinosum			
337.	26912	Helminthocladia australis			
338.	26913	Helminthora australis			
339.	27020	Liagora australasica			
340.	27024	Liagora izziae			Υ
341.	27030	Liagora wilsoniana			
342.	44525	Neoizziella divaricata			
343.		Titanophycus validus			
344.		Yamadaella caenomyce			
Loganiaceae	40005	51 A			
345.	16825	Phyllangium divergens			
Lomentariace	ae				
346.		Gelidiopsis scoparia			
347.		Semnocarpa minuta			
547.	21211	oonnocalpa minuta			
Loranthaceae	0000	turing and an incident			
Loranthaceae 348.	2396	Lysiana casuarinae			
	2396	Lysiana casuarinae			
348.		Lysiana casuarinae Guichenotia ledifolia			
348. Malvaceae 349.	5011	Guichenotia ledifolia	٧		
348. Malvaceae 349. 350.	5011 14646	Guichenotia ledifolia Lagunaria patersonia	Y		
348. Malvaceae 349. 350. 351.	5011 14646 36480	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow)	Υ		
348. Malvaceae 349. 350. 351. 352.	5011 14646 36480 4961	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow)			
348. Malvaceae 349. 350. 351. 352. 353.	5011 14646 36480 4961 31351	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana	Υ		
348. Malvaceae 349. 350. 351. 352.	5011 14646 36480 4961 31351	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow)	Υ		
348. Malvaceae 349. 350. 351. 352. 353.	5011 14646 36480 4961 31351	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana	Υ		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae	5011 14646 36480 4961 31351 5077	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata	Υ		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355.	5011 14646 36480 4961 31351 5077	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana	Υ		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae	5011 14646 36480 4961 31351 5077	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata	Υ		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355.	5011 14646 36480 4961 31351 5077	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata	Υ		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae	5011 14646 36480 4961 31351 5077 4516	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar)	Υ		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357.	5011 14646 36480 4961 31351 5077 4516	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane)	Υ		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae	5011 14646 36480 4961 31351 5077 4516 2845 40827	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane) Calandrinia tholiformis	Y		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357.	5011 14646 36480 4961 31351 5077 4516 2845 40827	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane) Calandrinia tholiformis Ficus carica (Common Fig)	Υ		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae	5011 14646 36480 4961 31351 5077 4516 2845 40827	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane) Calandrinia tholiformis	Y		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae 358.	5011 14646 36480 4961 31351 5077 4516 2845 40827	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane) Calandrinia tholiformis Ficus carica (Common Fig)	Y		
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae 358. 359.	5011 14646 36480 4961 31351 5077 4516 2845 40827	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane) Calandrinia tholiformis Ficus carica (Common Fig) Ficus elastica	Y		Y
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae 358. 359. 360.	5011 14646 36480 4961 31351 5077 4516 2845 40827	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane) Calandrinia tholiformis Ficus carica (Common Fig) Ficus elastica Ficus macrophylla	Y		Y
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae 358. 359. 360. 361. 362.	5011 14646 36480 4961 31351 5077 4516 2845 40827 1747	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane) Calandrinia tholiformis Ficus carica (Common Fig) Ficus elastica Ficus macrophylla Ficus microcarpa subsp. hillii	Y Y		Y
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae 358. 359. 360. 361. 362. Mychodeacea	5011 14646 36480 4961 31351 5077 4516 2845 40827 1747	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane) Calandrinia tholiformis Ficus carica (Common Fig) Ficus elastica Ficus macrophylla Ficus microcarpa subsp. hillii Ficus rubiginosa	Y Y		Y
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae 358. 359. 360. 361. 362. Mychodeacea 363.	5011 14646 36480 4961 31351 5077 4516 2845 40827 1747 47095 e 27079	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane) Calandrinia tholiformis Ficus carica (Common Fig) Ficus elastica Ficus macrophylla Ficus microcarpa subsp. hillii Ficus rubiginosa	Y Y		Y
348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae 358. 359. 360. 361. 362. Mychodeacea	5011 14646 36480 4961 31351 5077 4516 2845 40827 1747 47095 e 27079	Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar) Calandrinia brevipedata (Short-stalked Purslane) Calandrinia tholiformis Ficus carica (Common Fig) Ficus elastica Ficus macrophylla Ficus microcarpa subsp. hillii Ficus rubiginosa	Y Y		Y

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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
365.	17202	Agonis flexuosa var. flexuosa			Alea
366.		Eucalyptus camaldulensis (River Gum, Yabalinyba)			
367.		Eucalyptus camaldulensis subsp. obtusa (Blunt-budded River Red Gum)			
368.		Eucalyptus decipiens (Limestone Marlock, Moit)			
369.		Eucalyptus erythrocorys (Illyarrie)			
370.		Eucalyptus gomphocephala (Tuart, Duart)			
370.					
		Eucalyptus spathulata (Swamp Mallet)			
372.		Eucalyptus utilis			
373.		Melaleuca armillaris	Υ		
374.		Melaleuca huegelii (Chenille Honeymyrtle)			
375.	5922	Melaleuca lanceolata (Rottnest Teatree, Moonah)			
376.	5943	Melaleuca nesophila (Mindiyed)			
Nitrariaceae)				
377.	4366	Nitraria billardierei (Nitre Bush)			
Nizymeniac	020				
378.		Nizumania conforta			
		Nizymenia conferta			
379.	2/104	Nizymenia furcata			
Oleaceae	0500				
380.		Olea europaea (Olive)	Υ		
Orchidacea		0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1			
381.		Caladenia latifolia (Pink Fairy Orchid)			
382.		Cyrtostylis huegelii			
383.	1674	Prasophyllum giganteum (Bronze Leek Orchid)			
Orobonshaa	2022				
Orobanchad		Orahanaha minar // aggar Programmas	v		
384.		Orobanche minor (Lesser Broomrape)	Y		
385.	7089	Parentucellia latifolia (Common Bartsia)	Υ		
Oxalidaceae	9				
386.		Oxalis corniculata (Yellow Wood Sorrel)	Υ		
387.		Oxalis exilis	'		
			V		
388.	4356	Oxalis pes-caprae (Soursob)	Υ		
Peyssonnel	iaceae				
389.		Peyssonnelia inamoena			
390.		Peyssonnelia novae-hollandiae			
391.		Sonderophycus capensis			
001.	44701	ochdorophyddd ddpondid			
Phacelocarp	paceae				
392.	27133	Phacelocarpus labillardieri			
393.	27134	Phacelocarpus peperocarpos			
Phyllanthac	eae				
394.	4675	Phyllanthus calycinus (False Boronia)			
395.	4688	Poranthera drummondii			
Pinaceae					
396.	17671	Pinus halepensis	Y		
397.	88	Pinus radiata (Radiata Pine)	Y		
Dittagnaras					
Pittosporac		DW			
398.	19745	Pittosporum ligustrifolium			
Plantaginac	eae				
399.		Callitriche stagnalis (Common Starwort)	Υ		
400.		Cymbalaria muralis (Ivyleaf Toadflax)	Υ		
401.		Plantago debilis			
402.	7303	Plantago lanceolata (Ribwort Plantain)	Υ		
Plocamiace	ae				
403.		Plocamium angustum			
404.		-			
		Plocamium cartilagineum			
405.		Plocamium mertensii			
406.	2/157	Plocamium preissianum			
Poaceae					
407.	185	Aira cupaniana (Silvery Hairgrass)	Υ		
408.		Austrostipa elegantissima			
409.	17240	Austrostipa glavescens			
410.		Austrostipa sp.			
411.		Avellinia michelii	Υ		
412.	233	Avena barbata (Bearded Oat)	Υ		
413.	8661	Brachypodium distachyon (False Brome)	Y		
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que
414.	245	Briza minor (Shivery Grass)	Y		
415.	247	Bromus arenarius (Sand Brome)			
416.	249	Bromus diandrus (Great Brome)	Υ		
417.		Bromus hordeaceus (Soft Brome)	Υ		
418.		Bromus madritensis (Madrid Brome)	Υ		
419.		Bromus rubens (Red Brome)	Υ		
420.		Catapodium rigidum (Rigid Fescue)	Y		
421.		Cenchrus clandestinus (Kikuyu Grass)	Y		
422.		Cortaderia selloana (Pampas Grass)	Y		
423.		Cynodon dactylon (Couch)	Y		
424.		Ehrharta brevifolia (Annual Veldt Grass)	Y		
425.		Ehrharta brevifolia var. cuspidata Ehrharta langiflora (Annual Volat Cross)	Y		
426.		Ehrharta longiflora (Annual Veldt Grass)	Y		
427.		Eragrostis curvula (African Lovegrass)			
428.		Hordeum leporinum (Barley Grass)	Y		Υ
429. 430.		Lachnagrostis nesomytica Lachnagrostis nesomytica subsp. nesomytica		P1	Y
430.		Lachnagrostis nesomytica subsp. nesomytica Lachnagrostis nesomytica subsp. pseudofiliformis		P1	Y
431.			Y	PI	Ĭ
432.		Lagurus ovatus (Hare s Tail Grass) Lolium rigidum (Wimmera Ryegrass)	Y		
			Y		
434. 435		Microlaena stipoides (Weeping Grass)	Y		
435. 436.		Parapholis incurva (Coast Barbgrass) Poa annua (Winter Grass)	Y		
436.		Poa poiformis (Coastal Poa)	Y		
437.		Polypogon maritimus (Coast Beardgrass)	Y		
439.		Polypogon maritimus var. subspatheaceus	Y		
440.		Polypogon monspeliensis (Annual Beardgrass)	Y		
441.		Polypogon tenellus	'		
442.		Rostraria cristata	Υ		
443.		Rytidosperma occidentale	ī		
444.		Sorghum bicolor (Grain Sorghum)	Υ		
445.		Spinifex hirsutus (Hairy Spinifex)	,		
446.		Spinifex longifolius (Beach Spinifex)			
447.		Sporobolus virginicus (Marine Couch)			
448.		Stenotaphrum secundatum (Buffalo Grass)	Υ		
449.		Vulpia fasciculata	Y		
450.		Vulpia muralis	Y		
451.		Vulpia myuros (Rat s Tail Fescue)	Y		
452.		Vulpia myuros forma megalura	Y		
			·		
Polygalacea					
453.		Comesperma confertum			
454.	4555	Comesperma integerrimum			
Polvidaceae					
Polyidaceae 455.	27220	Rhodopeltis australis			
Polyidaceae 455. 456.		Rhodopeltis australis Rhodopeltis borealis			
455. 456.	27221	Rhodopeltis australis Rhodopeltis borealis			
455. 456. Polyphysace	27221 eae	Rhodopeltis borealis			
455. 456.	27221 eae				
455. 456. Polyphysace	27221 eae 48409	Rhodopeltis borealis			
455. 456. Polyphysace 457.	27221 eae 48409	Rhodopeltis borealis			
455. 456. Polyphysace 457. Portulacacea 458.	27221 eae 48409 ae 2884	Rhodopeltis borealis Acetabularia caliculus			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace	27221 Pae 48409 Ae 2884	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati)			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459.	27221 27221 288 48409 2884 2884	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed)			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace	27221 27221 288 48409 2884 2884	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati)			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459.	27221 2884 48409 2884 2884 105	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed)			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460.	27221 eae 48409 ae 2884 ae 123 105	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed)			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Potamogetol 461.	27221 eae 48409 ae 2884 ae 123 105	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Potamogetol 461.	27221 27221	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Potamogetol 461. Pottiaceae 462.	27221 284e 48409 48e 2884 48e 123 105 104 48620 36219	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Pursiane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii Pseudocrossidium hornschuchianum			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Potamogetor 461. Pottiaceae 462. 463.	27221 284e 48409 48e 2884 48e 123 105 105 106 48620 36219 32438	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii Pseudocrossidium hornschuchianum Syntrichia pagorum			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Potamogetol 461. Pottiaceae 462.	27221 284e 48409 48e 2884 48e 123 105 105 106 48620 36219 32438	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Pursiane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii Pseudocrossidium hornschuchianum			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Potamogetor 461. Pottiaceae 462. 463.	27221 284e 48409 48e 2884 48e 123 105 105 106 48620 36219 32438	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii Pseudocrossidium hornschuchianum Syntrichia pagorum			
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Potamogeto 461. Pottiaceae 462. 463. 464.	27221 284 48409 2884 2884 305 105 106 48620 36219 32438 32455	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii Pseudocrossidium hornschuchianum Syntrichia pagorum	Y		
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Pottamogeto 461. Pottiaceae 462. 463. 464. Primulaceae	27221 284 284 48409 2884 305 105 106 48620 36219 32438 32455 36375	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii Pseudocrossidium hornschuchianum Syntrichia pagorum Weissia controversa	Y		
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Pottamogetor 461. Pottiaceae 462. 463. 464. Primulaceae 465. 466.	27221 2826 48409 2884 2884 3105 105 104620 36219 32438 32455 36375 6484	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii Pseudocrossidium hornschuchianum Syntrichia pagorum Weissia controversa Lysimachia arvensis (Pimpernel)	Y		
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Potamogetor 461. Pottiaceae 462. 463. 464. Primulaceae 465. 466. Ranunculace	27221 2826 48409 2884 2884 3105 105 104620 36219 32438 32455 36375 6484	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii Pseudocrossidium hornschuchianum Syntrichia pagorum Weissia controversa Lysimachia arvensis (Pimpernel) Samolus repens (Creeping Brookweed)	Y		
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Potamogetor 461. Pottiaceae 462. 463. 464. Primulaceae 465. 466. Ranunculace 467.	27221 2884 2884 2884 305 105 10626 36219 32438 32455 36375 6484 2886 10804	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii Pseudocrossidium hornschuchianum Syntrichia pagorum Weissia controversa Lysimachia arvensis (Pimpernel) Samolus repens (Creeping Brookweed) Clematis linearifolia	Y		
455. 456. Polyphysace 457. Portulacacea 458. Posidoniace 459. 460. Potamogetor 461. Pottiaceae 462. 463. 464. Primulaceae 465. 466. Ranunculace	27221 2884 2884 2884 305 105 10626 36219 32438 32455 36375 6484 2935	Rhodopeltis borealis Acetabularia caliculus Portulaca oleracea (Purslane, Wakati) Posidonia australis (Fibreball Weed) Posidonia coriacea Althenia preissii Pseudocrossidium hornschuchianum Syntrichia pagorum Weissia controversa Lysimachia arvensis (Pimpernel) Samolus repens (Creeping Brookweed)	Y		

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Resedaceae	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
Nescuaceae					Alea
470.	3083	Reseda alba (White Mingnonette)	Υ		
471.		Reseda luteola (Wild Mingnonette)	Υ		
DI		, ,			
Rhamnaceae					
472.		Rhamnus alaternus (Buckthorn)	Y		
473.	4828	Spyridium globulosum (Basket Bush)			
Rhodomelac	eae				
474.		Acanthophora dendroides			
475.		Amansia serrata			
476.		Dictyomenia sonderi			
477.		Ditria expleta			
478.		Endosiphonia spinulosa			
479.		Herposiphonia versicolor			
480.		Holotrichia comosa			
481.		Kuetzingia canaliculata			
482.		Laurencia brongniartii			
483.		Laurencia dendroidea			
484.		Laurencia elata			
485.		Laurencia filiformis			
486.		Laurencia finiornis Laurencia forsteri			
487.		Leveillea jungermannioides			
487.					
489.		Neurymenia fraxinifolia Polleyfenia pedicellata			
489. 490.		Pollexfenia pedicellata Polysiphonia australiansis			
490. 491.		Polysiphonia australiensis Polysiphonia forfay			
		Polysiphonia forfex			
492.		Polysiphonia sertularioides			
493.		Protokuetzingia australasica			
494.		Tolypiocladia calodictyon			
495.		Tolypiocladia glomerulata			
496.	2/360	Vidalia spiralis			
Rhodymenia	ceae				
497.	26516	Botryocladia leptopoda			
498.	26518	Botryocladia sonderi			
499.	26614	Chamaebotrys boergesenii			Υ
500.		Coelarthrum cliftonii			
501.	26686	Coelarthrum opuntia			
502.	26864	Gloiosaccion brownii			
503.		Halopeltis australis			
Rubiaceae 504.	7323	Galium murale (Small Goosegrass)	Y		
D					
Ruppiaceae					
	440	2 : (
505.		Ruppia polycarpa			
		Ruppia polycarpa Ruppia tuberosa			
505. 506.					
505. 506. Rutaceae	117	Ruppia tuberosa			
505. 506. Rutaceae 507.	117 4403	Ruppia tuberosa Boronia alata (Winged Boronia)			
505. 506. Rutaceae 507. 508.	4403 4454	Ruppia tuberosa			
505. 506. Rutaceae 507. 508. Sapindaceae	4403 4454	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena)			
505. 506. Rutaceae 507. 508.	4403 4454	Ruppia tuberosa Boronia alata (Winged Boronia)			
505. 506. Rutaceae 507. 508. Sapindaceae	4403 4454 4754	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena)			
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510.	4403 4454 4754 eeae 27229	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush)			
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia	4403 4454 4754 eeae 27229	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides			
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510.	4403 4454 4754 eeae 27229	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush)			
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia	4403 4454 4754 eeae 27229	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides			
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia	4403 4454 4754 :eae 27229 Ceae 27144	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides			
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia 511.	4403 4454 4754 :eae 27229 ceae 27144	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum			
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia 511. Scinaiaceae 512. 513.	4403 4454 4754 eeae 27229 ceae 27144 27269 27270	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum Scinaia aborealis			
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia 511. Scinaiaceae 512. 513. Scrophularia	4403 4454 4754 eeae 27229 ceae 27144 27269 27270 ceae	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum Scinaia aborealis Scinaia tsinglanensis	V		
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia 511. Scinaiaceae 512. 513. Scrophularia 514.	4403 4454 4754 eeae 27229 ceae 27144 27269 27270 ceae 7054	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum Scinaia aborealis Scinaia tsinglanensis Dischisma arenarium	Y		
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia 511. Scinaiaceae 512. 513. Scrophularia 514. 515.	4403 4454 4754 eeae 27229 ceae 27144 27269 27270 ceae 7054 7215	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum Scinaia aborealis Scinaia tsinglanensis Dischisma arenarium Eremophila glabra (Tar Bush)	Y		
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia 511. Scinaiaceae 512. 513. Scrophularia 514. 515. 516.	4403 4454 4754 eeae 27229 ceae 27144 27269 27270 ceae 7054 7215 17175	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum Scinaia aborealis Scinaia tsinglanensis Dischisma arenarium Eremophila glabra (Tar Bush) Eremophila glabra subsp. albicans	Y		
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia 511. Scinaiaceae 512. 513. Scrophularia 514. 515. 516. 517.	4403 4454 4754 eeae 27229 ceae 27144 27269 27270 ceae 7054 7215 17175 7289	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum Scinaia aborealis Scinaia tsinglanensis Dischisma arenarium Eremophila glabra (Tar Bush) Eremophila glabra subsp. albicans Myoporum caprarioides (Slender Myoporum)	Y		
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia 511. Scinaiaceae 512. 513. Scrophularia 514. 515. 516.	4403 4454 4754 eeae 27229 ceae 27144 27269 27270 ceae 7054 7215 17175 7289	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum Scinaia aborealis Scinaia tsinglanensis Dischisma arenarium Eremophila glabra (Tar Bush) Eremophila glabra subsp. albicans	Y		
505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniac 510. Schizymenia 511. Scinaiaceae 512. 513. Scrophularia 514. 515. 516. 517.	4403 4454 4754 eeae 27229 Ceae 27144 27269 27270 Ceae 7054 7215 17175 7289 7291	Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum Scinaia aborealis Scinaia tsinglanensis Dischisma arenarium Eremophila glabra (Tar Bush) Eremophila glabra subsp. albicans Myoporum caprarioides (Slender Myoporum)	Y		

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







N	ame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query
Siphonocladad	ceae				
520.		Dictyosphaeria cavernosa			
521.	26770	Dictyosphaeria sericea			
522.		Dictyosphaeria versluysii			
523.	27280	Siphonocladus tropicus			
Calanasasa					
Solanaceae	0000	Lucium favo cincimum (African Poutham)	V		
524. 525.		Lycium ferocissimum (African Boxthorn)	Y		
		Nicotiana glauca (Tree Tobacco) Solanum lycopersicum (Tomato)	Y Y		
526.		• • • •	Y		
527.		Solanum nigrum (Black Berry Nightshade)	Y		
528.	1031	Solanum symonii			
Solieriaceae					
529.	48503	Betaphycus speciosus			
530.	27281	Solieria robusta			
Cnongitococo					
Spongitaceae	27000	Nananialithan hypopiae flavida			
531.	27090	Neogoniolithon brassica-florida			
Stylidiaceae					
532.	30278	Stylidium androsaceum			
Tamaricaceae					
533.	157/1	Tamarix aphylla (Athel Tree)	Y		
555.	13/41	тапапх арпуна (ланы ттоо)	'		
Typhaceae					
534.	99	Typha orientalis (Bulrush, Cumbungi)			
Udoteaceae					
535.	26528	Callipsygma wilsonis			Υ
536.		Chlorodesmis baculifera			Y
537.		Rhipiliopsis multiplex			Y
538.		Rhipiliopsis peltata			
		, , ,			
Ulvaceae					
539.		Ulva compressa			
540.		Ulva lactuca			
541.	27354	Ulva rigida			
Urticaceae					
542.	12670	Parietaria cardiostegia			
543.		Parietaria debilis (Pellitory)			
544.		Urtica urens (Small Nettle)	Υ		
Valanis					
Valoniaceae	07055	Veloris manufacture			
545.	2/356	Valonia macrophysa			
Wrangeliaceae	•				
546.		Griffithsia teges			
547.	35863	Haloplegma duperreyi			
548.	26900	Haloplegma preissii			
549.	27326	Tanakaella itonoi			
550.	27368	Wrangelia plumosa			
Zygophyllacea					
551.		Roepera billardierei			
551.		Roepera similis			
JJ2.	7030 I	reopera dirinio			

Conservation Codes

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

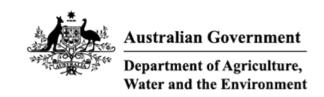




¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records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



Appendix B PMST



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. Please see the caveat for interpretation of information provided here.

Report created: 29-Mar-2022

Summary

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

Caveat

Acknowledgements

Summary

Matters of National Environment Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	1
Listed Threatened Species:	43
Listed Migratory Species:	67

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

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

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

Commonwealth Lands:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	101
Whales and Other Cetaceans:	12
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	1
Regional Forest Agreements:	None
Nationally Important Wetlands:	1
EPBC Act Referrals:	4
Key Ecological Features (Marine):	None
Biologically Important Areas:	14
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

[Resource Information]

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

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name	Threatened Category	Presence Text	Buffer Status
Banksia Woodlands of the Swan Coastal	Endangered	Community may occu	ırln feature area
Plain ecological community		within area	

Listed Threatened Species [Resource Information				
Status of Conservation Dependent and Extinct are not MNES under the EPBC Act. Number is the current name ID.				
Scientific Name	Threatened Category	Presence Text	Buffer Status	
BIRD				
Anous tenuirostris melanops				
Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area	In feature area	
Calidris canutus				
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area	
Calidris ferruginea				
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area	
Calidris tenuirostris				
Great Knot [862]	Critically Endangered	Roosting known to occur within area	In feature area	
Charadrius loschanaultii				
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area	
Charadrius mongolus				
Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area	

Scientific Name	Threatened Category	Presence Text	Buffer Status
<u>Diomedea amsterdamensis</u> Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In feature area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In buffer area only
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<u>Diomedea sanfordi</u> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Pachyptila turtur subantarctica Fairy Prion (southern) [64445]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pterodroma mollis Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area	In feature area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
FISH			
Thunnus maccoyii Southern Bluefin Tuna [69402]	Conservation Dependent	Species or species habitat likely to occur within area	In feature area
INSECT			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hesperocolletes douglasi Douglas' Broad-headed Bee, Rottnest Bee [66734]	Critically Endangered	Species or species habitat may occur within area	In feature area
MAMMAL			
Balaenoptera musculus Blue Whale [36]	Endangered	Migration route known to occur within area	n In feature area
Eubalaena australis Southern Right Whale [40]	Endangered	Breeding known to occur within area	In feature area
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat likely to occur within area	In feature area
Setonix brachyurus Quokka [229]	Vulnerable	Species or species habitat known to occur within area	In feature area
PLANT			
Diuris micrantha Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat may occur within area	In feature area
REPTILE			
Caretta caretta			
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area
Natator depressus Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
SHARK			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Carcharias taurus (west coast population)		_	
Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat known to occur within area	In feature area
Carcharodon carcharias			
White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area	In feature area
Galeorhinus galeus			
School Shark, Eastern School Shark, Snapper Shark, Tope, Soupfin Shark [68453]	Conservation Dependent	Species or species habitat may occur within area	In buffer area only
Pristis pristis			
Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat may occur within area	In feature area
Rhincodon typus			
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In feature area
Sphyrna lewini			
Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In feature area
Listed Missets w. Cossiss			lufows-sticus

Listed Migratory Species		[Res	source Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Anous stolidus			
Common Noddy [825]		Species or species habitat likely to occur within area	In feature area
Ardenna carneipes			
Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Species or species habitat likely to occur within area	In feature area
Ardenna pacifica			
Wedge-tailed Shearwater [84292]		Breeding known to occur within area	In feature area
Diomedea amsterdamensis			
Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In feature area
Diomedea dabbenena			
Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Diomedea epomophora Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Diomedea exulans Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Diomedea sanfordi Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
Hydroprogne caspia Caspian Tern [808]		Breeding known to occur within area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In feature area
Onychoprion anaethetus Bridled Tern [82845]		Breeding known to occur within area	In feature area
Phaethon rubricauda Red-tailed Tropicbird [994]		Breeding known to occur within area	In feature area
Phoebetria fusca Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sterna dougallii Roseate Tern [817]		Breeding known to occur within area	In feature area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Migratory Marine Species			
Balaenoptera edeni			
Bryde's Whale [35]		Species or species habitat may occur within area	In feature area
Balaenoptera musculus			
Blue Whale [36]	Endangered	Migration route knowr to occur within area	n In feature area
Caperea marginata			
Pygmy Right Whale [39]		Foraging, feeding or related behaviour may occur within area	In feature area y
Carcharhinus longimanus Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In feature area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat known to occur within area	In feature area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Chelonia mydas Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	n Endangered	Species or species habitat known to occur within area	In feature area
Eubalaena australis as Balaena glacialis	<u>australis</u>		
Southern Right Whale [40]	Endangered	Breeding known to occur within area	In feature area
<u>Lamna nasus</u>			
Porbeagle, Mackerel Shark [83288]		Species or species habitat may occur within area	In feature area
Megaptera novaeangliae			
Humpback Whale [38]		Species or species habitat known to occur within area	In feature area
Mobula alfredi as Manta alfredi			
Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat known to occur within area	In feature area
Mobula birostris as Manta birostris			
Giant Manta Ray [90034]		Species or species habitat likely to occur within area	In feature area
Natator depressus			
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	
Orcinus orca			
Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
Pristis pristis			
Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat may occur within area	In feature area
Rhincodon typus			
Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In feature area
Migratory Terrestrial Species			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Arenaria interpres Ruddy Turnstone [872]		Roosting known to occur within area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Roosting known to occur within area	In feature area
Calidris alba Sanderling [875]		Roosting known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
Calidris ruficollis Red-necked Stint [860]		Roosting known to occur within area	In feature area
Calidris tenuirostris Great Knot [862]	Critically Endangered	Roosting known to occur within area	In feature area
Charadrius bicinctus Double-banded Plover [895]		Roosting known to occur within area	In feature area
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius mongolus	0 ,		
Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area	In feature area
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area	In feature area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
<u>Limosa limosa</u> Black-tailed Godwit [845]		Roosting known to occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area	In feature area
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area	In feature area
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area
Phalaropus lobatus Red-necked Phalarope [838]		Roosting known to occur within area	In feature area
Pluvialis fulva Pacific Golden Plover [25545]		Roosting known to occur within area	In feature area
Pluvialis squatarola Grey Plover [865]		Roosting known to occur within area	In feature area
Thalasseus bergii Greater Crested Tern [83000]		Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa brevipes Grey-tailed Tattler [851]		Roosting known to occur within area	In feature area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area	In feature area
Tringa totanus Common Redshank, Redshank [835]		Roosting known to occur within area	In feature area
Xenus cinereus Terek Sandpiper [59300]		Roosting known to occur within area	In feature area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Res	source Information
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos			
Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Anous stolidus			
Common Noddy [825]		Species or species habitat likely to occur within area	In feature area
Anous tenuirostris melanops			
Australian Lesser Noddy [26000]	Vulnerable	Species or species habitat may occur within area	In feature area
Ardenna carneipes as Puffinus carneipes			
Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Species or species habitat likely to occur within area	In feature area
Ardenna pacifica as Puffinus pacificus Wedge-tailed Shearwater [84292]		Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Arenaria interpres	0		
Ruddy Turnstone [872]		Roosting known to occur within area	In feature area
Calidris acuminata			
Sharp-tailed Sandpiper [874]		Roosting known to occur within area	In feature area
Calidris alba			
Sanderling [875]		Roosting known to occur within area	In feature area
Calidris canutus			
Red Knot, Knot [855]	Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris ferruginea			
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris melanotos			
Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area
Calidris ruficollis			
Red-necked Stint [860]		Roosting known to occur within area overfly marine area	In feature area
Calidris tenuirostris			
Great Knot [862]	Critically Endangered	Roosting known to occur within area overfly marine area	In feature area
<u>Charadrius bicinctus</u>			
Double-banded Plover [895]		Roosting known to occur within area overfly marine area	In feature area
Charadrius leschenaultii			
Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
Charadrius mongolus			
Lesser Sand Plover, Mongolian Plover [879]	Endangered	Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius ruficapillus Red-capped Plover [881]		Roosting known to occur within area overfly marine area	In feature area
Chroicocephalus novaehollandiae as La Silver Gull [82326]	rus novaehollandiae	Breeding known to occur within area	In feature area
Diomedea amsterdamensis Amsterdam Albatross [64405]	Endangered	Species or species habitat may occur within area	In feature area
<u>Diomedea dabbenena</u> Tristan Albatross [66471]	Endangered	Species or species habitat may occur within area	In buffer area only
<u>Diomedea epomophora</u> Southern Royal Albatross [89221]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<u>Diomedea exulans</u> Wandering Albatross [89223]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
<u>Diomedea sanfordi</u> Northern Royal Albatross [64456]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
Gallinago megala Swinhoe's Snipe [864]		Roosting likely to occur within area overfly marine area	In feature area
Gallinago stenura Pin-tailed Snipe [841]		Roosting likely to occur within area overfly marine area	In feature area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat may occur within area	In feature area
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Himantopus himantopus Pied Stilt, Black-winged Stilt [870]		Roosting known to occur within area overfly marine area	In feature area
Hydroprogne caspia as Sterna caspia Caspian Tern [808]		Breeding known to occur within area	In feature area
Larus pacificus Pacific Gull [811]		Breeding known to occur within area	In feature area
<u>Limosa lapponica</u> Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In feature area
Limosa limosa Black-tailed Godwit [845]		Roosting known to occur within area overfly marine area	In feature area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In feature area
Macronectes halli Northern Giant Petrel [1061]	Vulnerable	Species or species habitat may occur within area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat likely to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Roosting likely to occur within area overfly marine area	In feature area
Numenius phaeopus Whimbrel [849]		Roosting known to occur within area	In feature area
Onychoprion anaethetus as Sterna anae Bridled Tern [82845]	<u>ethetus</u>	Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Onychoprion fuscatus as Sterna fuscata	Time attended Gategory	1 10001100 1070	
Sooty Tern [90682]		Breeding known to occur within area	In feature area
Pachyptila turtur			
Fairy Prion [1066]		Species or species habitat known to occur within area	In feature area
Pandion haliaetus			
Osprey [952]		Breeding known to occur within area	In feature area
Phaethon rubricauda			
Red-tailed Tropicbird [994]		Breeding known to occur within area	In feature area
Phalaropus lobatus			
Red-necked Phalarope [838]		Roosting known to occur within area	In feature area
Phoebetria fusca			
Sooty Albatross [1075]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pluvialis fulva			
Pacific Golden Plover [25545]		Roosting known to occur within area	In feature area
Pluvialis squatarola			
Grey Plover [865]		Roosting known to occur within area overfly marine area	In feature area
Pterodroma mollis			
Soft-plumaged Petrel [1036]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Puffinus assimilis			
Little Shearwater [59363]		Breeding known to occur within area	In feature area
Recurvirostra novaehollandiae			
Red-necked Avocet [871]		Roosting known to occur within area overfly marine area	In feature area
Rostratula australis as Rostratula bengha	alensis (sensu lato)		
Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Stercorarius skua as Catharacta skua Great Skua [823]		Species or species habitat may occur within area	In buffer area only
Sterna dougallii Roseate Tern [817]		Breeding known to occur within area	In feature area
Sternula nereis as Sterna nereis Fairy Tern [82949]		Breeding known to occur within area	In feature area
Thalassarche carteri Indian Yellow-nosed Albatross [64464]	Vulnerable	Species or species habitat likely to occur within area	In feature area
Thalassarche cauta Shy Albatross [89224]	Endangered	Foraging, feeding or related behaviour likely to occur within area	In feature area
Thalassarche impavida Campbell Albatross, Campbell Black-browed Albatross [64459]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche melanophris Black-browed Albatross [66472]	Vulnerable	Species or species habitat may occur within area	In feature area
Thalassarche steadi White-capped Albatross [64462]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area	In feature area
Thalasseus bergii as Sterna bergii Greater Crested Tern [83000]		Breeding known to occur within area	In feature area
Thinornis cucullatus as Thinornis rubrico Hooded Dotterel, Hooded Plover [87735]		Species or species habitat known to occur within area overfly marine area	In feature area
Tringa brevipes as Heteroscelus brevipe Grey-tailed Tattler [851]	<u>S</u>	Roosting known to occur within area	In feature area

Coiontifio Namo	Throatanad Catagory	Dragonos Toyt	Duffor Ctatus
Scientific Name	Threatened Category	Presence Text	Buffer Status
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat known to occur within area overfly marine area	In feature area
Tringa stagnatilis Marsh Sandpiper, Little Greenshank [833]		Roosting known to occur within area overfly marine area	In feature area
Tringa totanus Common Redshank, Redshank [835]		Roosting known to occur within area overfly marine area	In feature area
Xenus cinereus Terek Sandpiper [59300]		Roosting known to occur within area overfly marine area	In feature area
Fish			
Acentronura australe			
Southern Pygmy Pipehorse [66185]		Species or species habitat may occur within area	In feature area
Campichthys galei			
Gale's Pipefish [66191]		Species or species habitat may occur within area	In feature area
Choeroichthys suillus			
Pig-snouted Pipefish [66198]		Species or species habitat may occur within area	In buffer area only
Halicampus brocki			
Brock's Pipefish [66219]		Species or species habitat may occur within area	In buffer area only
Heraldia nocturna Upside-down Pipefish, Eastern Upside-down Pipefish, Eastern Upside-down Pipefish [66227]		Species or species habitat may occur within area	In feature area
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse [66234]	d	Species or species habitat may occur within area	In feature area
Hippocampus breviceps Short-head Seahorse, Short-snouted Seahorse [66235]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hippocampus subelongatus West Australian Seahorse [66722]		Species or species habitat may occur within area	In feature area
Histiogamphelus cristatus Rhino Pipefish, Macleay's Crested Pipefish, Ring-back Pipefish [66243]		Species or species habitat may occur within area	In feature area
<u>Lissocampus caudalis</u> Australian Smooth Pipefish, Smooth Pipefish [66249]		Species or species habitat may occur within area	In feature area
<u>Lissocampus fatiloquus</u> Prophet's Pipefish [66250]		Species or species habitat may occur within area	In feature area
<u>Lissocampus runa</u> Javelin Pipefish [66251]		Species or species habitat may occur within area	In feature area
Maroubra perserrata Sawtooth Pipefish [66252]		Species or species habitat may occur within area	In feature area
Mitotichthys meraculus Western Crested Pipefish [66259]		Species or species habitat may occur within area	In feature area
Nannocampus subosseus Bonyhead Pipefish, Bony-headed Pipefish [66264]		Species or species habitat may occur within area	In feature area
Phycodurus eques Leafy Seadragon [66267]		Species or species habitat may occur within area	In feature area
Phyllopteryx taeniolatus Common Seadragon, Weedy Seadragor [66268]	1	Species or species habitat may occur within area	In feature area
Pugnaso curtirostris Pugnose Pipefish, Pug-nosed Pipefish [66269]		Species or species habitat may occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Solegnathus lettiensis			
Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area	In feature area
Stigmatopora argus Spotted Pipefish, Gulf Pipefish, Peacock Pipefish [66276]		Species or species habitat may occur within area	In feature area
Stigmatopora nigra Widebody Pipefish, Wide-bodied Pipefish, Black Pipefish [66277]		Species or species habitat may occur within area	In feature area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In buffer area only
Urocampus carinirostris Hairy Pipefish [66282]		Species or species habitat may occur within area	In feature area
Vanacampus margaritifer Mother-of-pearl Pipefish [66283]		Species or species habitat may occur within area	In feature area
Vanacampus phillipi Port Phillip Pipefish [66284]		Species or species habitat may occur within area	In feature area
Vanacampus poecilolaemus Longsnout Pipefish, Australian Longsnout Pipefish, Long-snouted Pipefish [66285]		Species or species habitat may occur within area	In feature area
Mammal			
Arctocephalus forsteri Long-nosed Fur-seal, New Zealand Fur-seal [20]		Species or species habitat may occur within area	In feature area
Neophoca cinerea Australian Sea-lion, Australian Sea Lion [22]	Endangered	Species or species habitat likely to occur within area	In feature area
Reptile			
Aipysurus pooleorum Shark Bay Seasnake [66061]		Species or species habitat may occur within area	In feature area

	T	Б Т.	D. " O
Scientific Name	Threatened Category	Presence Text	Buffer Status
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In feature area
Chelonia mydas			
Green Turtle [1765]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	
Dermochelys coriacea			
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area	In feature area
Dietoire kingii			
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area	In feature area
Natator depressus			
Flatback Turtle [59257]	Vulnerable	Foraging, feeding or related behaviour known to occur within area	In feature area
Pelamis platurus			
Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area	In feature area

Whales and Other Cetaceans		[Resource Information]
Current Scientific Name	Status	Type of Presence Buffer Status
Mammal		
Balaenoptera acutorostrata Minke Whale [33]		Species or species In feature area habitat may occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species In feature area habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Migration route known In feature area to occur within area
Caperea marginata Pygmy Right Whale [39]		Foraging, feeding or In feature area related behaviour may occur within area

Current Scientific Name	Status	Type of Presence	Buffer Status
<u>Delphinus delphis</u>			
Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In feature area
Eubalaena australis			
Southern Right Whale [40]	Endangered	Breeding known to occur within area	In feature area
Grampus griseus			
Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In feature area
Megaptera novaeangliae			
Humpback Whale [38]		Species or species habitat known to occur within area	In feature area
Orcinus orca			
Killer Whale, Orca [46]		Species or species habitat may occur within area	In feature area
Stenella attenuata			
Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In feature area
<u>Tursiops aduncus</u>			
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In feature area
Tursiops truncatus s. str.			
Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In feature area

Extra Information

Wetland Name

Rottnest Island Lakes

State and Territory Reserves			[Resource Information]
Protected Area Name	Reserve Type	State	Buffer Status
Rottnest Island	State Reserve	WA	In feature area
Nationally Important Wetlands			[Resource Information]

State

WA

Buffer Status

In feature area

EPBC Act Referrals			[Resou	rce Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
INDIGO Central Submarine Telecommunications Cable	2017/8127	Not Controlled Action	Completed	In feature area
Rottnest Lodge Redevelopment	2019/8565	Not Controlled Action	Completed	In buffer area only
Seismic Survey, Bremer Basin, Mentelle Basin and Zeewyck Sub- basin	2004/1700	Not Controlled Action	Completed	In feature area
Not controlled action (particular manne	er)			
INDIGO Marine Cable Route Survey (INDIGO)	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only

Biologically Important Areas			
Scientific Name	Behaviour	Presence	Buffer Status
Seabirds			
Ardenna carneipes Flesh-footed Shearwater [82404]	Aggregation	Known to occur	In feature area
Ardenna pacifica			
Wedge-tailed Shearwater [84292]	Foraging (in high numbers)	Known to occur	In feature area
Eudyptula minor			
Little Penguin [1085]	Foraging (provisioning young)	Known to occur	In feature area
Hydroprogne caspia			
Caspian Tern [808]	Foraging (provisioning young)	Known to occur	In feature area
<u>Larus pacificus</u>			
Pacific Gull [811]	Foraging (in high numbers)	Former Range	In feature area
Onychoprion anaethetus			
Bridled Tern [82845]	Foraging (in high numbers)	Known to occur	In feature area
Puffinus assimilis tunneyi			
Little Shearwater [59363]	Foraging (in high numbers)	Known to occur	In feature area

Scientific Name	Behaviour	Presence	Buffer Status
Sterna dougallii Roseate Tern [817]	Foraging	Known to occur	In feature area
Sternula nereis Fairy Tern [82949]	Foraging (in high numbers)	Known to occur	In feature area
Seals			
Neophoca cinerea Australian Sea Lion [22]	Foraging (male)	Likely to occur	In feature area
Whales			
Balaenoptera musculus brevicauda Pygmy Blue Whale [81317]	Distribution	Known to occur	In feature area
Balaenoptera musculus brevicauda Pygmy Blue Whale [81317]	Migration	Known to occur	In buffer area only
Eubalaena australis Southern Right Whale [40]	Calving buffer	Known to occur	In feature area
Megaptera novaeangliae Humpback Whale [38]	Migration (north and south)	Known to occur	In feature area

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data are available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and 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

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

Where little information is available for a 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 detailed distribution mapping methods are used to update these distributions

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

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

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded
- seals which have only been mapped for breeding sites near the Australian continent

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

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

Acknowledgements

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

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

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