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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.
Life Forms Sampled	No	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 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

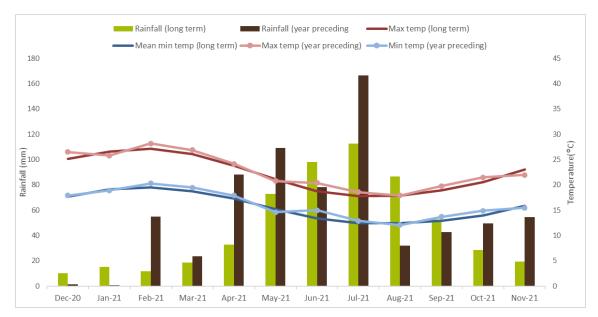
4.2.1 Climate

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%).

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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

Enc:

Figure 1: Survey Area

Figure 2: Vegetation Types and TEC Extent

Figure 3: Vegetation Condition



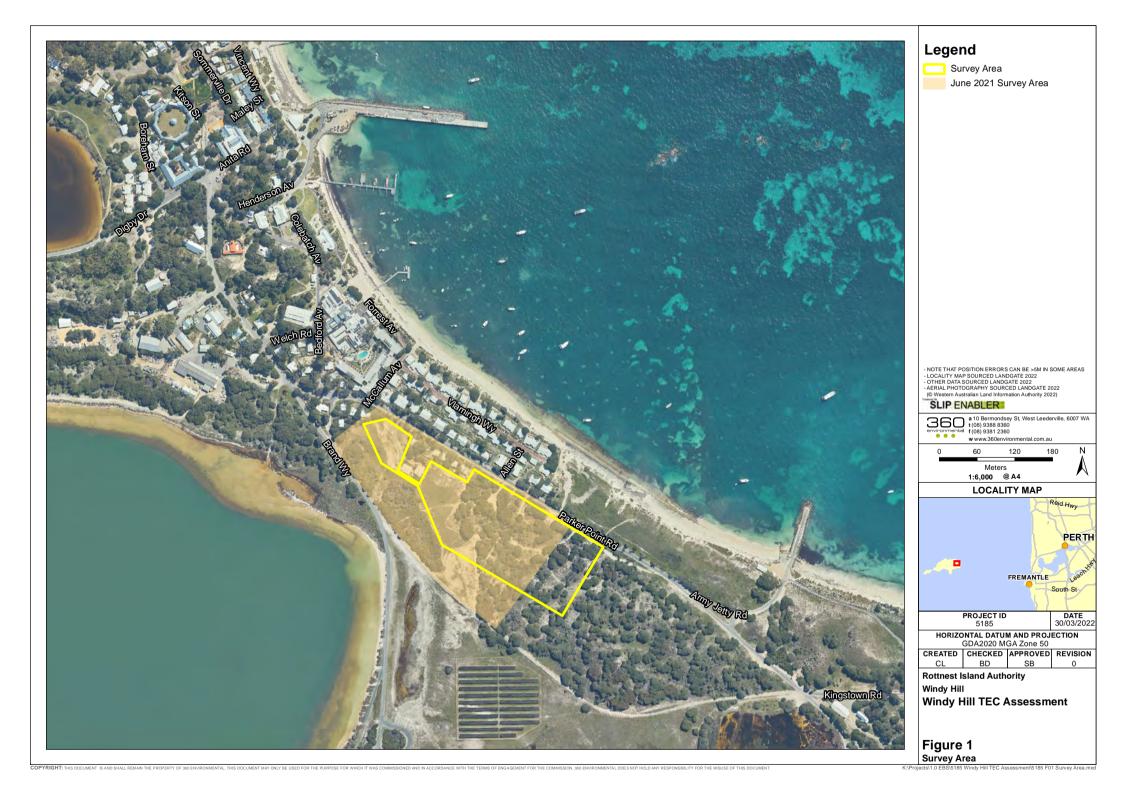
7 References

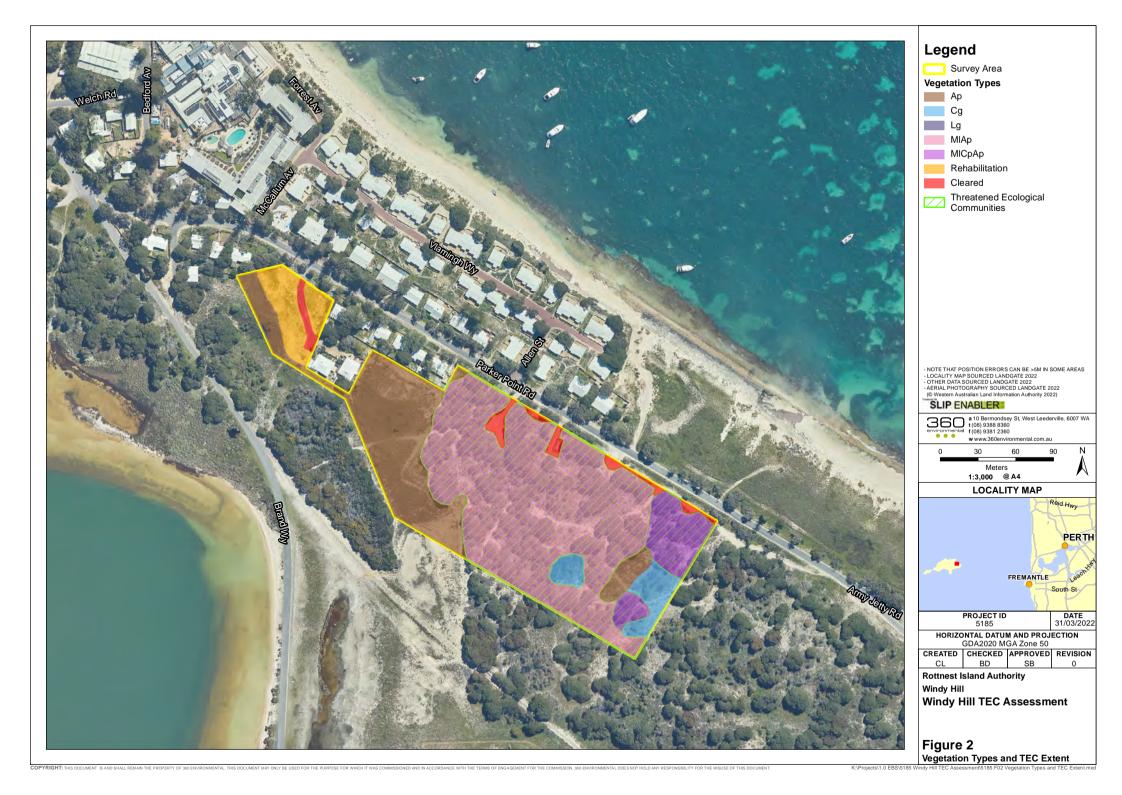
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Figures









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 Amaryllidaceae	1 4	4 8
Anadyomenaceae	2	8
Apiaceae	2	7
Apocynaceae	3	15
Araceae	1	9
Araliaceae	6	11
Arecaceae	4	4
Areschougiaceae	10	26
Asparagaceae	6	23
Asphodelaceae Asteraceae	2 27	12 80
Bignoniaceae	1	1
Bonnemaisoniaceae	2	13
Boodleaceae	2	13
Boraginaceae	2	4
Brassicaceae	10	35
Bryopsidaceae	5	5
Campanulaceae	1	3
Caryophyllaceae	10	40
Casuarinaceae	3	5
Caulerpaceae	21	103
Celastraceae Centrolepidaceae	1 1	4 2
Ceramiaceae	18	33
Champiaceae	3	8
Chenopodiaceae	13	41
Cladophoraceae	10	25
Codiaceae	7	28
Colchicaceae	1	2
Convolvulaceae	2	9
Corallinaceae	11	68
Crassulaceae	7	16
Cupressaceae	1 4	4
Cymodoceaceae Cyperaceae	12	8 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 14
Ericaceae Euphorbiaceae	3 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
Haloragaceae Halymeniaceae	1 10	1
Hemerocallidaceae	2	37 2
Hydrocharitaceae	2	3
Hymenocladiaceae	2	4
Hypoxidaceae	1	1
Iridaceae	6	19
Juncaceae	2	2
Juncaginaceae	4	11
Kallymeniaceae	5	8
Lamiaceae	5 1	7
Lamiaceae Liagoraceae	5 1 10	7 33
Lamiaceae	5 1	7







TOTAL	552	1836
		-
Zygophyllaceae	2	3
Wrangeliaceae	5	6
Urticaceae Valoniaceae	3 1	22
Ulvaceae	3	7 22
Udoteaceae	4 3	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	8
Ranunculaceae	3	17
Primulaceae	2	17
Potamogetonaceae Pottiaceae	3	3
	1	4
Portulacaceae Posidoniaceae	2	3
Polyphysaceae	1 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	2	5
		3
Malvaceae	6 1	38 3







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Acrotylaceae	•				
1.	26456	Amphiplexia hymenocladioides			
2.	26665	Claviclonium ovatum			
3.	26915	Hennedya crispa			
Aizoaceae					
4.	2798	Carpobrotus virescens (Coastal Pigface, Kolboko, Bain)			
5.		Mesembryanthemum crystallinum (Iceplant)	Υ		
6.		Tetragonia decumbens (Sea Spinach)	Υ		
7.	2823	Tetragonia implexicoma (Bower Spinach)			
Alliaceae					
8. 8.	1374	Allium ampeloprasum	Υ		
Amaranthace	eae				
9.	2689	Hemichroa pentandra (Trailing Jointweed)			
A manulli da a c					
Amaryllidace			.,		
10.		Leucojum aestivum (Snowflake)	Y		
11.		Narcissus papyraceus	Y		
12.		Narcissus tazetta (Jonquil)	Y		
13.	44496	Narcissus tazetta subsp. italicus	Υ		
Anadyomena		Microdictyon okamurae			
15.		Microdictyon umbilicatum			
	2.014	y			
Apiaceae					
16.	6210	Apium annuum			
17.	6218	Daucus glochidiatus (Australian Carrot)			
Anocynacea	•				
Apocynacea 18.		Alacia huvifalia (Ducentary Ruch)			
		Alyxia buxifolia (Dysentery Bush)	V		
19. 20.		Gomphocarpus fruticosus (Narrowleaf Cottonbush)	Y		
Araceae	16356	Nerium oleander	Y		
21.	1049	Zantedeschia aethiopica (Arum Lily)	Υ		
Augline					
Araliaceae					
22.		Hydrocotyle blepharocarpa			
23.		Hydrocotyle diantha			
24.		Hydrocotyle hispidula			
	62/11	Hydrocotyle tetragonocarpa			
25.					
26.	6266	Trachymene coerulea (Blue Lace Flower)			
	6266	Trachymene coerulea (Blue Lace Flower) Trachymene coerulea subsp. coerulea			
26. 27.	6266				
26. 27. Arecaceae	6266 19041	Trachymene coerulea subsp. coerulea	Y		
26. 27. Arecaceae 28.	6266 19041 44540	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm)	Y Y		
26. 27. Arecaceae 28. 29.	6266 19041 44540 1042	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm)	Υ		
26. 27. Arecaceae 28. 29. 30.	6266 19041 44540 1042	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera			Y
26. 27. Arecaceae 28. 29. 30. 31.	6266 19041 44540 1042 17910	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm)	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia	6266 19041 44540 1042 17910	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia	6266 19041 44540 1042 17910	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia	6266 19041 44540 1042 17910 Ceae 26484	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia	6266 19041 44540 1042 17910 Ceae 26484 26533 26534	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26535	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26535 26536	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus harveyanus	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26535 26536 26823	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus harveyanus Callophycus oppositifolius	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36. 37.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26535 26536 26823 26854	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus apositifolius Erythroclonium sonderi	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36. 37. 38.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26535 26536 26823 26854 27062	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus harveyanus Callophycus oppositifolius Erythroclonium sonderi Gigartina disticha	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36. 37. 38. 39.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26535 26536 26823 26854 27062 27210	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus harveyanus Callophycus oppositifolius Erythroclonium sonderi Gigartina disticha Meristotheca papulosa	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36. 37. 38. 39. 40.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26536 26823 26854 27062 27210 27230	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus harveyanus Callophycus oppositifolius Erythroclonium sonderi Gigartina disticha Meristotheca papulosa Rhabdonia clavigera	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. Asparagacea	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26535 26536 26823 26854 27062 27210 27230	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus anveyanus Callophycus oppositifolius Erythroclonium sonderi Gigartina disticha Meristotheca papulosa Rhabdonia clavigera Sarconema filiforme	Υ		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. Asparagacea 42.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26536 26823 26854 27062 27210 27230	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus anveyanus Callophycus oppositifolius Erythroclonium sonderi Gigartina disticha Meristotheca papulosa Rhabdonia clavigera Sarconema filiforme Acanthocarpus preissii	Y		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. Asparagacea 42. 43.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26536 26823 26854 27062 27210 27230 16	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus anveyanus Callophycus oppositifolius Erythroclonium sonderi Gigartina disticha Meristotheca papulosa Rhabdonia clavigera Sarconema filiforme Acanthocarpus preissii Agave americana (Century Plant)	Y		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. Asparagacea 42. 43. 44.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26536 26823 26854 27062 27210 27230 86 1208 1505 47094	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus harveyanus Callophycus oppositifolius Erythroclonium sonderi Gigartina disticha Meristotheca papulosa Rhabdonia clavigera Sarconema filiforme Acanthocarpus preissii Agave americana (Century Plant) Agave attenuata	Y Y Y		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. Asparagacea 42. 43. 44. 45.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26536 26823 26854 27062 27210 27230 10 1208 1505 47094 18379	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus harveyanus Callophycus oppositifolius Erythroclonium sonderi Gigartina disticha Meristotheca papulosa Rhabdonia clavigera Sarconema filiforme Acanthocarpus preissii Agave americana (Century Plant) Agave attenuata Agave sisalana	Y Y Y Y		Y
26. 27. Arecaceae 28. 29. 30. 31. Areschougia 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. Asparagacea 42. 43. 44.	6266 19041 44540 1042 17910 Ceae 26484 26533 26534 26536 26823 26854 27062 27210 27230 86 1208 1505 47094 18379 1372	Trachymene coerulea subsp. coerulea Phoenix canariensis (Canary Islands Date Palm) Phoenix dactylifera (Date Palm) Washingtonia filifera Washingtonia robusta Areschougia ligulata Callophycus costatus Callophycus dorsifer Callophycus harveyanus Callophycus oppositifolius Erythroclonium sonderi Gigartina disticha Meristotheca papulosa Rhabdonia clavigera Sarconema filiforme Acanthocarpus preissii Agave americana (Century Plant) Agave attenuata	Y Y Y		Y

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







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
48.	1364	Asphodelus fistulosus (Onion Weed)	Y		
49.	1368	Trachyandra divaricata	Υ		
Asteraceae					
50.	7833	Angianthus preissianus			
51.	7838	Arctotheca calendula (Cape Weed, African Marigold)	Υ		
52.	7839	Arctotheca populifolia (Dune Arctotheca, Beach Pumpkin, Coast Capeweed, Beach	Y		
50	7044	Daisy)			
53. 54.		Argyranthemum frutescens (Marguerite) Carduus pycnocephalus (Slender Thistle)	Y Y		
55.		Centaurea melitensis (Maltese Cockspur, Malta Thistle)	Y		
56.		Cirsium vulgare (Spear Thistle, Scotch Thistle)	Y		
57.		Conyza bonariensis (Flaxleaf Fleabane)	Υ		
58.	7941	Conyza parva	Υ		
59.	20074	Conyza sumatrensis	Υ		
60.		Cotula australis (Common Cotula)			
61.		Cotula bipinnata (Ferny Cotula)	Y		
62.		Cotula coronopifolia (Waterbuttons)	Y		
63. 64.		Dittrichia graveolens (Stinkwort) Gamochaeta calviceps	Y Y		
65.		Gnaphalium indutum (Tiny Cudweed)	'		
66.		Hypochaeris glabra (Smooth Catsear)	Y		
67.		Leontodon rhagadioloides	Y		
68.		Leucophyta brownii			
69.	8105	Millotia myosotidifolia			
70.	8127	Olearia axillaris (Coastal Daisybush)			
71.	8182	Podotheca angustifolia (Sticky Longheads)			
72.		Senecio pinnatifolius var. latilobus			
73.		Senecio pinnatifolius var. maritimus (Coastal Groundsel)	.,		
74. 75.		Sonchus asper (Rough Sowthistle)	Y Y		
75. 76.		Sonchus oleraceus (Common Sowthistle) Waitzia nitida	Y		
70.	10020	Transla Inida			
Bignoniace					
77.	17923	Tecoma stans	Y		
Bonnemais	oniaceae	•			
78.	26486	Asparagopsis taxiformis			
79.	26757	Delisea pulchra			
Boodleacea	e				
80.	27141	Phyllodictyon anastomosans			
81.	27318	Struvea plumosa			
Boraginace	ae				
82.		Heliotropium curassavicum (Smooth Heliotrope)			
83.	6722	Myosotis australis (Southern Forget-me-not)			
	0122	Myosous australis (Southern Forget-Me-not)		P4	
Rrassicace:		myosous ausuans (Sounem i orgennemor)		P4	
	ae		Y	P4	
Brassicacea 84. 85.	ae 3002	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress)	Y Y	P4	
84.	3002 3005	Cakile maritima (Sea Rocket)		P4	
84. 85.	3002 3005 3011	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress)	Υ	P4	
84. 85. 86.	3002 3005 3011 3016	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket)	Y Y	P4	
84. 85. 86. 87. 88.	3002 3005 3011 3016 18137 19989	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum	Y Y Y	P4	
84. 85. 86. 87. 88. 89.	3002 3005 3011 3016 18137 19989 3027	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress)	Y Y Y		
84. 85. 86. 87. 88. 89. 90.	3002 3005 3011 3016 18137 19989 3027 3043	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum	Y Y Y Y	P4	
84. 85. 86. 87. 88. 89. 90. 91.	3002 3005 3011 3016 18137 19989 3027 3043 3061	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish)	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90.	3002 3005 3011 3016 18137 19989 3027 3043 3061	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish)	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish)	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92. 93. Bryopsidac 94.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072 eae 26521	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish) Sisymbrium orientale (Indian Hedge Mustard) Bryopsis australis Bryopsis gemellipara	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92. 93. Bryopsidac 94. 95.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072 eae 26521	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish) Sisymbrium orientale (Indian Hedge Mustard) Bryopsis australis Bryopsis gemellipara Bryopsis macraildii	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92. 93. Bryopsidac 94. 95. 96.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072 eae 26521	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish) Sisymbrium orientale (Indian Hedge Mustard) Bryopsis australis Bryopsis gemellipara Bryopsis macraildii Bryopsis plumosa	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92. 93. Bryopsidac 94. 95.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072 eae 26521	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish) Sisymbrium orientale (Indian Hedge Mustard) Bryopsis australis Bryopsis gemellipara Bryopsis macraildii	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92. 93. Bryopsidac 94. 95. 96. 97.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072 eae 26521 26523 26525 27191	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish) Sisymbrium orientale (Indian Hedge Mustard) Bryopsis australis Bryopsis gemellipara Bryopsis macraildii Bryopsis plumosa	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92. 93. Bryopsidac 94. 95. 96. 97.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072 eae 26521 26523 26525 27191	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish) Sisymbrium orientale (Indian Hedge Mustard) Bryopsis australis Bryopsis gemellipara Bryopsis macraildii Bryopsis plumosa	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92. 93. Bryopsidac 94. 95. 96. 97. 98. Campanula 99.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072 eae 26521 26523 26525 27191 ceae 9289	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish) Sisymbrium orientale (Indian Hedge Mustard) Bryopsis australis Bryopsis gemellipara Bryopsis macraildii Bryopsis plumosa Pseudobryopsis hainanensis	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92. 93. Bryopsidac 94. 95. 96. 97. 98. Campanula 99.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072 eae 26521 26523 26525 27191 ceae 9289	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish) Sisymbrium orientale (Indian Hedge Mustard) Bryopsis australis Bryopsis gemellipara Bryopsis macraildii Bryopsis plumosa Pseudobryopsis hainanensis	Y Y Y Y		
84. 85. 86. 87. 88. 89. 90. 91. 92. 93. Bryopsidac 94. 95. 96. 97. 98. Campanula 99.	3002 3005 3011 3016 18137 19989 3027 3043 3061 3072 eae 26521 26523 26525 27191 ceae 9289 aceae 19883	Cakile maritima (Sea Rocket) Cardamine hirsuta (Common Bittercress) Diplotaxis muralis (Wall Rocket) Heliophila pusilla Hornungia procumbens Lepidium didymum Lepidium foliosum (Leafy Peppercress) Lepidium puberulum Raphanus raphanistrum (Wild Radish) Sisymbrium orientale (Indian Hedge Mustard) Bryopsis australis Bryopsis gemellipara Bryopsis macraildii Bryopsis plumosa Pseudobryopsis hainanensis Lobelia anceps (Angled Lobelia)	Y Y Y Y Y		
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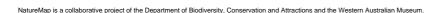
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116. 47053 Cau 117. 44539 Cau 118. 26561 Cau 119. 26562 Cau 120. 26563 Cau 121. 27380 Cau 122. 48455 Cau 123. 26564 Cau 124. 26565 Cau 125. 26568 Cau 127. 26570 Cau 128. 26571 Cau 129. 37643 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 134. 9070 Stac 134. 9070 Stac 135. 1134 Cen 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cere 144. 26599 Cere 144. 26599 Cere 145. 26600 Cere 147. 26829 Eup 148. 26830 Eup 149. 26887 Guin 149. 26887 Guin 150. 27194 Psilic 151. 27286 Spe 154. 26616 Cha 155. 26616 Cha 155. 26617 Cha	ulerpa cupressoides var. cupressoides ulerpa cylindracea ulerpa ellistoniae ulerpa fergusonii ulerpa flexilis ulerpa flexilis ulerpa flexilis var. muelleri ulerpa geminata ulerpa hedleyi ulerpa heterophylla ulerpa lentillifera ulerpa longifolia forma crispata ulerpa papillosa ulerpa papillosa ulerpa parvifolia		
117. 44539 Cau 118. 26561 Cau 119. 26562 Cau 120. 26563 Cau 121. 27380 Cau 122. 48455 Cau 123. 26564 Cau 124. 26565 Cau 125. 26568 Cau 126. 27382 Cau 127. 26570 Cau 128. 26571 Cau 129. 37643 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 134. 9070 Stac 135. 1134 Cen 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cer 144. 26599 Cer 144. 26599 Cer 145. 26600 Cer 147. 26829 Eup 148. 26830 Eup 149. 26887 Gui 149. 26887 Gui 149. 26887 Gui 150. 27194 Psilc 151. 27286 Spe 154. 26616 Cha 155. 26617 Cha	ulerpa cylindracea ulerpa ellistoniae ulerpa fergusonii ulerpa flexilis ulerpa flexilis ulerpa flexilis var. muelleri ulerpa geminata ulerpa hedleyi ulerpa heterophylla ulerpa lentillifera ulerpa longifolia forma crispata ulerpa papillosa ulerpa papillosa ulerpa parvifolia		
118. 26561 Cau 119. 26562 Cau 120. 26563 Cau 121. 27380 Cau 121. 27380 Cau 122. 48455 Cau 123. 26564 Cau 124. 26565 Cau 125. 26568 Cau 126. 27382 Cau 127. 26570 Cau 128. 26571 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 134. 9070 Stac 135. 1134 Cen 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 139. 26475 Anti 140. 26500 Ball 141. 26511 Bor 142. 26587 Cen 143. 26593 Cer 144. 26599 Cer 144. 26599 Cer 145. 26600 Cer 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Gui 149. 26887 Gui 150. 27194 Psilc 151. 27286 Spe 153. 26616 Cha 155. 26617 Cha	ulerpa ellistoniae ulerpa fergusonii ulerpa flexilis ulerpa flexilis ulerpa flexilis var. muelleri ulerpa geminata ulerpa hedleyi ulerpa heterophylla ulerpa lentillifera ulerpa longifolia forma crispata ulerpa papillosa ulerpa papillosa ulerpa parvifolia		
119. 26562 Cau 120. 26563 Cau 121. 27380 Cau 121. 27380 Cau 122. 48455 Cau 123. 26564 Cau 124. 26565 Cau 125. 26568 Cau 126. 27382 Cau 127. 26570 Cau 128. 26571 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 134. 9070 Stac Introlepidaceae 134. 9070 Stac Introlepidaceae 135. 1134 Cen Introlepidaceae 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Borr 142. 26587 Cen 143. 26593 Cer 144. 26599 Cer 144. 26599 Cer 145. 26600 Cer 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 149. 26887 Guir 150. 27194 Psilc 151. 27286 Spe 154. 26616 Cha 155. 26617 Cha	ulerpa fergusonii ulerpa flexilis ulerpa flexilis var. muelleri ulerpa geminata ulerpa hedleyi ulerpa heterophylla ulerpa heterophylla ulerpa lentillifera ulerpa longifolia forma crispata ulerpa papillosa ulerpa papillosa ulerpa parvifolia		
120. 26563 Cau 121. 27380 Cau 122. 48455 Cau 123. 26564 Cau 124. 26565 Cau 125. 26568 Cau 126. 27382 Cau 127. 26570 Cau 128. 26571 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 134. 9070 Stac 135. 1134 Cen 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cer 144. 26599 Cer 145. 26600 Cer 147. 26829 Eup 148. 26830 Eup 149. 26887 Gui 150. 27194 Psilc 151. 27286 Spe 154. 26616 Cha ampiaceae	ulerpa flexilis ulerpa flexilis var. muelleri ulerpa geminata ulerpa hedleyi ulerpa heterophylla ulerpa lentillifera ulerpa longifolia forma crispata ulerpa papillosa ulerpa papillosa ulerpa parvifolia		
121. 27380 Cau 122. 48455 Cau 123. 26564 Cau 124. 26565 Cau 125. 26568 Cau 126. 27382 Cau 127. 26570 Cau 128. 26571 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 134. 9070 Stac 135. 1134 Cen 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cere 144. 26599 Cere 145. 26600 Cere 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 150. 27194 Psilc 151. 27286 Spe 154. 26616 Cha ampiaceae	ulerpa flexilis var. muelleri ulerpa geminata ulerpa hedleyi ulerpa heterophylla ulerpa lentillifera ulerpa longifolia forma crispata ulerpa papillosa ulerpa papillosa ulerpa parvifolia		
122. 48455 Cau 123. 26564 Cau 124. 26565 Cau 125. 26568 Cau 126. 27382 Cau 127. 26570 Cau 128. 26571 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 134. 9070 Stac 135. 1134 Cen 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cer 144. 26599 Cer 144. 26599 Cer 145. 26600 Cer 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 149. 26887 Guir 150. 27194 Psilc 151. 27286 Spe 154. 26616 Cha 155. 26616 Cha 155. 26616 Cha	ulerpa geminata ulerpa hedleyi ulerpa heterophylla ulerpa lentillifera ulerpa longifolia forma crispata ulerpa obscura ulerpa papillosa ulerpa parvifolia ulerpa scalpelliformis		
123. 26564 Cau 124. 26565 Cau 125. 26568 Cau 126. 27382 Cau 127. 26570 Cau 128. 26571 Cau 129. 37643 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau astraceae 134. 9070 Stac ntrolepidaceae 135. 1134 Cen 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cera 144. 26599 Cera 145. 26600 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 150. 27194 Psilc 151. 27286 Spe 154. 26616 Cha 155. 26616 Cha 155. 26617 Cha	ulerpa hedleyi ulerpa heterophylla ulerpa lentillifera ulerpa longifolia forma crispata ulerpa obscura ulerpa papillosa ulerpa parvifolia ulerpa scalpelliformis		
124. 26565 Cau 125. 26568 Cau 126. 27382 Cau 127. 26570 Cau 128. 26571 Cau 129. 37643 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau astraceae 134. 9070 Stac ntrolepidaceae 135. 1134 Cen 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cera 144. 26599 Cera 145. 26600 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 150. 27194 Psilc 151. 27286 Spe 152. 27309 Spy 151. 27286 Spe 154. 26616 Cha 155. 26617 Cha	ulerpa heterophylla ulerpa lentillifera ulerpa longifolia forma crispata ulerpa obscura ulerpa papillosa ulerpa parvifolia ulerpa scalpelliformis		
125. 26568 Cau 126. 27382 Cau 127. 26570 Cau 128. 26571 Cau 129. 37643 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 134. 9070 Stac 135. 1134 Cen 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cera 144. 26599 Cera 144. 26599 Cera 145. 26600 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 149. 26887 Guir 150. 27194 Psilc 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy 14mpiaceae	ulerpa lentillifera ulerpa longifolia forma crispata ulerpa obscura ulerpa papillosa ulerpa parvifolia ulerpa scalpelliformis		
126. 27382 Cau 127. 26570 Cau 128. 26571 Cau 129. 37643 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau astraceae 134. 9070 Stac ntrolepidaceae 135. 1134 Cen ramiaceae 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cera 144. 26599 Cera 145. 26600 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 149. 26887 Guir 150. 27194 Psik 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy 154. 26616 Cha	ulerpa longifolia forma crispata ulerpa obscura ulerpa papillosa ulerpa parvifolia ulerpa scalpelliformis		
127. 26570 Cau 128. 26571 Cau 129. 37643 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau lastraceae 134. 9070 Stac ntrolepidaceae 135. 1134 Cen ramiaceae 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cera 144. 26599 Cera 145. 26600 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 149. 26887 Guir 150. 27194 Psik 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae	ulerpa obscura ulerpa papillosa ulerpa parvifolia ulerpa scalpelliformis		
128. 26571 Cau 129. 37643 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 134. 9070 Stac 135. 1134 Cen 136. 26447 Acra 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cera 144. 26599 Cera 145. 26600 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 150. 27194 Psik 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy 1841. 26616 Cha 155. 26616 Cha	ulerpa papillosa ulerpa parvifolia ulerpa scalpelliformis		
129. 37643 Cau 130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 134. 9070 Stac 135. 1134 Cen 136. 26447 Acra 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cera 144. 26599 Cera 145. 26600 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 149. 26887 Guir 150. 27194 Psik 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy 184. 26616 Cha	ulerpa parvifolia ulerpa scalpelliformis		
130. 26574 Cau 131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 133. 46993 Cau 134. 9070 Stac 135. 1134 Cen 136. 26447 Acrc 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cers 144. 26599 Cers 144. 26599 Cers 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 149. 26887 Guir 150. 27194 Psik 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy 184. 26616 Cha	ulerpa scalpelliformis		
131. 26575 Cau 132. 26578 Cau 133. 46993 Cau 133. 46993 Cau 134. 9070 Stac 135. 1134 Cen 135. 1134 Cen 136. 26447 Acrc 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cerc 144. 26599 Cerc 144. 26599 Cerc 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 149. 26887 Guir 150. 27194 Psik 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy 184. 26616 Cha 155. 26616 Cha			
132. 26578 Cau 133. 46993 Cau 134. 9070 Stac Introlepidaceae 135. 1134 Cen 136. 26447 Acrc 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cerc 144. 26599 Cerc 145. 26600 Cerc 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 149. 26887 Guir 150. 27194 Psilc 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha			
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ntrolepidaceae 135. 1134 Centramiaceae 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cent 143. 26593 Cert 144. 26599 Cert 145. 26600 Cert 146. 26797 Dret 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 150. 27194 Psilo 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha			
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ramiaceae 136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anit 140. 26500 Ballı 141. 26511 Born 142. 26587 Cen 143. 26593 Cere 144. 26599 Cere 145. 26600 Cere 146. 26797 Dret 147. 26829 Eup 149. 26887 Guin 150. 27194 Psike 151. 27286 Spe 152. 27309 Spyt 153. 26616 Cha			
136. 26447 Acro 137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cers 144. 26599 Cers 145. 26600 Cers 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 150. 27194 Psilc 151. 27286 Spe 152. 27309 Spyr 153. 27310 Spyr ampiaceae 154. 26616 Cha 155. 26617 Cha	ntrolepis polygyna (Wiry Centrolepis)		
137. 26465 Anis 138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cers 144. 26599 Cers 145. 26600 Cers 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 150. 27194 Psilc 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha			
138. 27374 Ano 139. 26475 Anti 140. 26500 Balli 141. 26511 Born 142. 26587 Cen 143. 26593 Cers 144. 26599 Cers 145. 26600 Cers 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guii 150. 27194 Psilc 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	othamnion preissii		
139. 26475 Anti- 140. 26500 Balla 141. 26511 Born 142. 26587 Cen 143. 26593 Cere 144. 26599 Cere 145. 26600 Cere 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guin 150. 27194 Psile 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	soschizus propaguli		Y
140. 26500 Balli 141. 26511 Born 142. 26587 Cern 143. 26593 Cera 144. 26599 Cera 144. 26599 Cera 144. 26699 Cera 144. 26690 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 150. 27194 Psilo 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	otrichium tenue var. thyrsigerum		Υ
141. 26511 Born 142. 26587 Cen 143. 26593 Cer 144. 26599 Cer 145. 26600 Cer 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 150. 27194 Psilt 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	ithamnion hanovioides		
142. 26587 Cen 143. 26593 Cer 144. 26599 Cer 145. 26600 Cer 146. 26797 Dre 147. 26829 Eup 148. 26830 Eup 150. 27194 Psilt 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	liella hirsuta		Υ
143. 26593 Cera 144. 26599 Cera 145. 26600 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 150. 27194 Psill 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	rnetia binderiana		
144. 26599 Cera 145. 26600 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 150. 27194 Psilt 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	ntroceras clavulatum		
145. 26600 Cera 146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guit 150. 27194 Psilt 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	ramium filicula		
146. 26797 Drei 147. 26829 Eup 148. 26830 Eup 149. 26887 Guir 150. 27194 Psilk 151. 27286 Spe 152. 27309 Spy 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	ramium puberulum		
147. 26829 Eup 148. 26830 Eup 149. 26887 Guit 150. 27194 Psilt 151. 27286 Spe 152. 27300 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	ramium pusillum		
148. 26830 Eup 149. 26887 Guit 150. 27194 Psilt 151. 27286 Spe 152. 27300 Spy. 153. 27310 Spy. ampiaceae 154. 26616 Cha 155. 26617 Cha	wiana nitella		
148. 26830 Eup 149. 26887 Guit 150. 27194 Psilt 151. 27286 Spe 152. 27300 Spy. 153. 27310 Spy. ampiaceae 154. 26616 Cha 155. 26617 Cha	otilocladia spongiosa		
149. 26887 Guir 150. 27194 Psilc 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	tilota articulata		
150. 27194 Psilic 151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	iryella repens		
151. 27286 Spe 152. 27309 Spy 153. 27310 Spy ampiaceae 154. 26616 Cha 155. 26617 Cha	Iothallia striata		
152. 27309 Spyr. 153. 27310 Spyr. ampiaceae 154. 26616 Cha 155. 26617 Cha	ermothamnion miniatum		Υ
153. 27310 Spyr ampiaceae 154. 26616 Cha 155. 26617 Cha	rridia dasyoides		
ampiaceae 154. 26616 <i>Cha</i> 155. 26617 <i>Cha</i>	rridia filamentosa		
154. 26616 Cha 155. 26617 Cha			
155. 26617 Cha			
	and their		
156. 26619 <i>Cha</i>	ampia affinis		
	ampia compressa		
enopodiaceae			
	ampia compressa ampia stipitata		
	ampia compressa ampia stipitata iplex cinerea (Grey Saltbush)		
	ampia compressa ampia stipitata iplex cinerea (Grey Saltbush) plex isatidea (Coast Saltbush)		
	ampia compressa ampia stipitata iplex cinerea (Grey Saltbush) plex isatidea (Coast Saltbush) enopodium murale (Nettle-leaf Goosefoot)	Y	
	ampia compressa ampia stipitata iplex cinerea (Grey Saltbush) plex isatidea (Coast Saltbush)	Y	
162. 11341 Rha	ampia compressa ampia stipitata iplex cinerea (Grey Saltbush) plex isatidea (Coast Saltbush) enopodium murale (Nettle-leaf Goosefoot)	Υ	



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
163.	11930	Rhagodia baccata subsp. dioica (Sea Berry Saltbush)			Alea
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					
Cladophorac					
170.		Apjohnia laetevirens			
171.		Chaetomorpha aerea			
172.		Cladophora albida			
173.		Cladophora dalmatica			
174.		Cladophora laetevirens			
175.		Cladophora lehmanniana			
176.		Cladophora prolifera			
177.	48667	Cladophora rhizoclonioidea			
178.	48668	Cladophora subsimplex			
179.	26659	Cladophora valonioides			
Codiaceae					
180.	26674	Codium duthieae			
181.		Codium galeatum Codium laminarioidas			
182.		Codium luminarioides			
183.		Codium lucasii			
184.		Codium muelleri			
185.		Codium perriniae			
186.	26683	Codium spongiosum			
Colchicaceae	е				
187.	1398	Wurmbea monantha			
Convolvulace	eae				
188.	6616	Dichondra repens (Kidney Weed)			
189.	6659	Wilsonia humilis (Silky Wilsonia)			
Corallinaceae	_				
190.		Amphires encore			
		Amphires are allies			
191.		Amphiroa gracilis			
192.		Jania affinis			
193.		Jania micrarthrodia			
194.		Jania pulchella			
195.		Jania rosea			
196.		Jania verrucosa			
197.	27067	Metagoniolithon chara			
198.	27068	Metagoniolithon radiatum			
199.	27069	Metagoniolithon stelliferum			
200.	27070	Metamastophora flabellata			
Crassulaceae	^				
		One and a selection (Dames Otensions)			
201.		Crassula colorata (Dense Stonecrop)			
202.		Crassula colorata var. colorata			
203.		Crassula decumbens (Rufous Stonecrop)			
204.		Crassula decumbens var. decumbens			
205.		Crassula glomerata	Y		
206.		Crassula natans var. minus	Υ		
207.	11345	Crassula thunbergiana subsp. thunbergiana	Υ		
Cupressacea	ae				
208.		Callitris preissii (Rottnest Island Pine, Maro)			
	00				
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	ceae				
Cymodoceac 209.		Amphibolis antarctica (Sea Nymph)			
Cymodoceac	126	Amphibolis antarctica (Sea Nymph) Amphibolis griffithii			
Cymodoceac 209.	126 127				
Cymodoceac 209. 210.	126 127 132	Amphibolis griffithii			
209. 210. 211. 212.	126 127 132	Amphibolis griffithii Syringodium isoetifolium			
209. 210. 211. 212. Cyperaceae	126 127 132 134	Amphibolis griffithii Syringodium isoetifolium Thalassodendron pachyrhizum			
209. 210. 211. 212. Cyperaceae 213.	126 127 132 134	Amphibolis griffithii Syringodium isoetifolium Thalassodendron pachyrhizum Baumea juncea (Bare Twigrush)			
209. 210. 211. 212. Cyperaceae 213. 214.	126 127 132 134 743 43241	Amphibolis griffithii Syringodium isoetifolium Thalassodendron pachyrhizum Baumea juncea (Bare Twigrush) Carex thecata			
209. 210. 211. 212. Cyperaceae 213. 214. 215.	126 127 132 134 743 43241 20216	Amphibolis griffithii Syringodium isoetifolium Thalassodendron pachyrhizum Baumea juncea (Bare Twigrush) Carex thecata Ficinia nodosa (Knotted Club Rush)			
209. 210. 211. 212. Cyperaceae 213. 214. 215. 216.	126 127 132 134 743 43241 20216 907	Amphibolis griffithii Syringodium isoetifolium Thalassodendron pachyrhizum Baumea juncea (Bare Twigrush) Carex thecata Ficinia nodosa (Knotted Club Rush) Gahnia trifida (Coast Saw-sedge)			
209. 210. 211. 212. 2yperaceae 213. 214. 215.	126 127 132 134 743 43241 20216 907	Amphibolis griffithii Syringodium isoetifolium Thalassodendron pachyrhizum Baumea juncea (Bare Twigrush) Carex thecata Ficinia nodosa (Knotted Club Rush)			
209. 210. 211. 212. Cyperaceae 213. 214. 215. 216.	126 127 132 134 743 43241 20216 907 20200	Amphibolis griffithii Syringodium isoetifolium Thalassodendron pachyrhizum Baumea juncea (Bare Twigrush) Carex thecata Ficinia nodosa (Knotted Club Rush) Gahnia trifida (Coast Saw-sedge)			
209. 210. 211. 212. Cyperaceae 213. 214. 215. 216. 217.	126 127 132 134 743 43241 20216 907 20200 917	Amphibolis griffithii Syringodium isoetifolium Thalassodendron pachyrhizum Baumea juncea (Bare Twigrush) Carex thecata Ficinia nodosa (Knotted Club Rush) Gahnia trifida (Coast Saw-sedge) Isolepis cernua var. setiformis		of Biodiversity,	Western



221. 940 Lepidosperma globiaquameum		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quei Area
221	220.	933	Lepidosperma gladiatum (Coast Sword-sedge, Kerbin)			Alou
22.1 94.5 (apticagement augmentation)	221.					
224. 1948 Scherosch familie Scherosch						
Page						
250. 2005	224.	1004	Schoenus hiteris (Shirry Bog-rush)			
250. 25056	Cystocloniac	ceae				
225. 3052: Plymore according 227. 3058: Plymore according 228. 2057: Plymore according 229. 2075: Plymore according 220. 2075: Plymore according 220. 2075: Plymore according 221. 2075: Plymore according 221. 2075: Plymore according 222. 2075: Plymore according 223. 2059: Pleforesphorian cattlifamorian 223. 2059: Pleforesphorian cattlifamorian 224. 2059: Pleforesphorian cattlifamorian 225. 2059: Pleforesphorian cattlifamorian 226. 2059: Pleforesphorian cattlifamorian 227. 2059: Pleforesphorian cattlifamorian 227. 2059: Pleforesphorian cattlifamorian 228. 2059: Pleforesphorian cattlifamorian 229. 2059: Pleforesphorian cattlifamorian 220. 2059: Pleforesph			Hypnea charoides			
228. 2871 Hypries inscribing	226.					
298	227.					
23. 2873 Pipures valendiae						
Dasyacea						
231. 267.8 Dasys elongaste		20973	пурнеа чавниае			
231	-	26738	Dasva elongata			
2822 28622 Meterosiphonia calillamentum 233. 28602 Meterosiphonia varangelioides 236. 28622 Chauvinelle corilioile 236. 28622 Chauvinelle corilioile 236. 28612 Meterosiphonia varangelioides 237. 28611 Aministra frontaina 238. 28612 Meterosious dentroulus 238. 28612 Meterosious dentroulus 238. 28612 Meterosious dentroulus 240. 27055 Meterosious dentroulus 241. 2414 Meterosia varante 242. 29060 Polyceima ramosa 243. 2716 Polyceima ramosa 243. 2717 Polyceima ramosa 244. 2712 Polyceima ramosa 245. 2417 Polyceima ramosa 246. 2878 Dicanama revolutum 247. 2787 Yibusa oblusatus Dichotomosiphonase 248. 2818 Polyceima ramosa Polyceima ramosa 248. 2818 Polyceima ramosa 249. 2818 Polyceima ramosa 240. 2818 Polyceima ramosa (Branched Sundew) Dichotomosiphonase 240. 2819 Polyceima ramosa (Branched Sundew) Dichotomosiphonase 240. 2819 Polyceima ramosa (Branched Sundew) Dichotomosiphonase 240. 2819 Polyceima ramosa (Branched Sundew) Dichotomosiphonase 250. 2818 Polyceima ramosa (Branched Sundew) Dichotomosiphonase (Polyceima ramosa (
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281						
2301	Delesseriace	ae				
2301			Chauviniella coriifolia			
237. 2891						
238						
233						
241, 2715 Metransia australia						
241						
242 36390 Phlysulinia ramose 1940						
Personal Parameter Persona						
Periodo Peri	242.	36360	Platyclinia ramosa			Υ
	243.	27146	Platysiphonia hypneoides			
Dicrammatace Parameter P			Padahasia dayaafamis			
245. 26497 Avrainvillea clavatiramea	244.	27120	redubesia ciavaeioiniis			
246. 26758 Dicanaema revolutum 247. 72747 Tylotus obtusatus Dilleniaceae 248. 5162 Hibbertia racemosa (Stalked Guinea Flower) Droseraceae 249. 3128 Drosera ramellosa (Branched Sundew) Ericaceae 250. 6295 Actorische cordata (Coast Ground Berry) 251. 6405 Leucopogon insularis 252. 6407 Leucopogon parvillorus (Coast Beard-heath) Euphorbiaceae 253. 4601 Beyeria viscosa (Pinkwood) 254. 4638 Euphorbia paralias (Soa Spurge) Y 255. 4638 Euphorbia paralias (Soa Spurge) Y 256. 4738 Euphorbia paralias (Soa Spurge) Y 257. 3282 Accaia cyclops (Coastal Wattle) Y 258. 3424 Accaia ittrucea Y 259. 3525 Accaia truncat Y 260. 3584 Accaia truncat Y 262. 407		•				
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249. 3128 Drosera ramellosa (Branched Sundew)	Dilleniaceae 248.	5162	Hibbertia racemosa (Stalked Guinea Flower)			
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253. 4601 Beyeria viscosa (Pinkwood) 254. 4636 Euphorbia paralias (Sea Spurge) Y 255. 4638 Euphorbia peplus (Petty Spurge) Y 256. 4705 Ricinus communis (Castor Oil Plant) Y Fabaceae 257. 3282 Acacia cyclops (Coastal Wattle) *** 258. 3424 Acacia littorea *** 259. 3525 Acacia rostellifera (Summer-scented Wattle) *** 260. 3584 Acacia truncata *** 261. 48860 Erythrostemon gilliesii Y 262. 4079 Medicago polymorpha (Burr Medic) Y 263. 4080 Medicago sativa (Alfalfa) Y 264. 4085 Melilotus indicus Y 265. 4256 Templetonia retusa (Cockies Tongues) Y 266. 4314 Trifolium tomentosum (Woolly Clover) Y 267. 4315 Trifolium tomentosum var. tomentosum Y	252.	6427	Leucopogon parviflorus (Coast Beard-heath)			
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Pabaceae						
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263. 4080 Medicago sativa (Alfalfa) Y 264. 4085 Melilotus indicus Y 265. 4256 Templetonia retusa (Cockies Tongues) Y 266. 4314 Trifolium suffocatum (Suffocated Clover) Y 267. 4315 Trifolium tomentosum (Woolly Clover) Y 268. 15509 Trifolium tomentosum var. tomentosum Y Faucheaceae 269. 26860 Gloiocladia halymenioides	261.	48860	Erythrostemon gilliesii	Υ		
263. 4080 Medicago sativa (Alfalfa) Y 264. 4085 Melitotus indicus Y 265. 4256 Templetonia retusa (Cockies Tongues) Y 266. 4314 Trifolium suffocatum (Suffocated Clover) Y 267. 4315 Trifolium tomentosum (Woolly Clover) Y 268. 15509 Trifolium tomentosum var. tomentosum Y Faucheaceae 269. 26860 Gloiocladia halymenioides	262.	4079	Medicago polymorpha (Burr Medic)	Υ		
264. 4085 Melilotus indicus Y 265. 4256 Templetonia retusa (Cockies Tongues) 266. 4314 Trifolium suffocatum (Suffocated Clover) Y 267. 4315 Trifolium tomentosum (Woolly Clover) Y 268. 15509 Trifolium tomentosum var. tomentosum Y Faucheaceae 269. 2686 Gloiocladia halymenioides						
265. 4256 Templetonia retusa (Cockies Tongues) 266. 4314 Trifolium suffocatum (Suffocated Clover) Y 267. 4315 Trifolium tomentosum (Woolly Clover) Y 268. 15509 Trifolium tomentosum var. tomentosum Y Faucheaceae 269. 26860 Gloiocladia halymenioides						
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Faucheaceae 269. 26860 Gloiocladia halymenioides						
269. 26860 Gloiocladia halymenioides			Trifolium tomentosum var. tomentosum	Υ		
·	Faucheaceae	•				
270. 27361 Webervanbossea kaliformis	269.	26860	Gloiocladia halymenioides			
	270.	27361	Webervanbossea kaliformis			









	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quer Area
Francoaceae					
271.	4785	Melianthus major	Υ		
Frankeniace	ae				
272.	5209	Frankenia pauciflora (Seaheath)			
Galaxaurace	eae				
273.	29616	Dichotomaria marginata			
274.	29615	Dichotomaria obtusata			
275.	34959	Dichotomaria spathulata			
276.	26835	Galaxaura rugosa			
277.	27340	Tricleocarpa cylindrica			
Gelidiaceae					
278.	26847	Gelidium australe			Υ
279.	26849	Gelidium pusillum			
280.	27195	Pterocladia lucida			
281.	27206	Ptilophora prolifera			
Gentianacea	ie.				
282.		Centaurium erythraea (Common Centaury)	Υ		
283.		Centaurium pulchellum	Y		
284.		Centaurium tenuiflorum	Y		
285.	41660	Schenkia australis			
Geraniaceae					
286.		Erodium cicutarium (Common Storksbill)	Υ		
287.		Geranium molle (Dove's Foot Cranesbill)	Y		
288.		Pelargonium capitatum (Rose Pelargonium)	Y		
289.		Pelargonium littorale			
0					
Goodeniacea 290.		Secondo argosifelio (Thick leaved Ean flavor)			
290.	7000	Scaevola crassifolia (Thick-leaved Fan-flower)			
Gracilariace	ae				
291.		Crassa secundata			
292.		Curdiea obesa			
293.		Gracilaria blodgettii			
294. 295.		Gracilaria preissiana Gracilaria salicornia			
293.	20073	Graciiana Saliconna			
Haemodorac					
296.		Conostylis candicans (Grey Cottonhead)			
297.	12027	Conostylis candicans subsp. calcicola			
Halimedacea	ae				
298.	47213	Halimeda versatilis			
Haloragacea	ne.				
299.		Gonocarpus pithyoides			
Halymeniace					
300.		Carpopeltis elata			
301. 302.		Carpopeltis phyllophora Carpopeltis spongeaplexus			
302.		Carpopettis spongeapiexus Codiophyllum flabelliforme			
303.		Cryptonemia kallymenioides			
305.		Epiphloea bullosa			
306.		Gelinaria ulvoidea			
307.		Grateloupia subpectinata			
308.		Halymenia floresii			
309.		Halymenia harveyana			
Hemerocallio	dacoac				
310.		Johnsonia pubescens subsp. pubescens			
310.		Phormium tenax	Υ		
Hydrocharita					
312.		Halophila ovalis (Sea Wrack)			
313.	166	Hydrilla verticillata (Water Thyme)			
Hymenoclad	liaceae				
314.		Erythrymenia minuta			
315.	26961	Hymenocladia conspersa			
Hypovidasas	30				
Hypoxidacea 316.		Pauridia alaballa			
510.	40/03	Pauridia glabella			

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







	ame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que
ridaceae					
317.	1515	Ferraria crispa (Black Flag)	Υ		
318.	11445	Ferraria crispa subsp. crispa	Υ		
319.		Iris germanica (Flag Iris)	Υ		
320.		Moraea flaccida (One-leaf Cape Tulip)	Υ		
321.		Moraea miniata (Two-leaf Cape Tulip)	Y		
322.		Romulea rosea var. australis (Guildford Grass)	Y		
322.	11544	Nontalea 1030a var. australis (Guildiord Grass)	1		
Juncaceae					
323.	1178	Juncus bufonius (Toad Rush)	Υ		
324.	11922	Juncus kraussii subsp. australiensis			
lunggainggag	_				
Juncaginacea		Triplochin minuticoimo			
325.		Triglochin minutissima			
326.		Triglochin mucronata			
327.		Triglochin striata			
328.	152	Triglochin trichophora			
Kallymeniacea	16				
329.		Austrokallymenia roensis			Υ
330.					ī
		Glaphyrymenia pustulosa Kollymenia eninesa			V
331.		Kallymenia spinosa			Y
332.		Leiomenia cribrosa			
333.	48423	Stauromenia lacerata			
_amiaceae					
334.	6939	Westringia dampieri			
004.	0000	***Ostringia dampion			
_iagoraceae					
335.	26794	Dotyophycus abbottiae			
336.	26837	Ganonema farinosum			
337.	26912	Helminthocladia australis			
338.		Helminthora australis			
339.		Liagora australasica			
		-			Υ
340.		Liagora izziae			Y
341.		Liagora wilsoniana			
342.		Neoizziella divaricata			
343.	29601	Titanophycus validus			
344.	27370	Yamadaella caenomyce			
_oganiaceae					
345.	16925	Phyllangium divergens			
J+J.	10025	T Hyllangian divergens			
_omentariace	ae				
-01110111411400		Gelidiopsis scoparia			
346.	35913				
		Semnocarpa minuta			
346. 347.		Semnocarpa minuta			
346.		Semnocarpa minuta			
346. 347.	27277	Semnocarpa minuta Lysiana casuarinae			
346. 347. Loranthaceae 348.	27277				
346. 347. Loranthaceae 348. Malvaceae	27277	Lysiana casuarinae			
346. 347. Loranthaceae 348. Malvaceae 349.	27277 2396 5011	Lysiana casuarinae Guichenotia ledifolia			
346. 347. Loranthaceae 348. Malvaceae 349. 350.	27277 2396 5011 14646	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia	Y		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351.	27277 2396 5011 14646 36480	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow)	Υ		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352.	27277 2396 5011 14646 36480 4961	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow)			
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351.	27277 2396 5011 14646 36480 4961	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow)	Υ		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352.	27277 2396 5011 14646 36480 4961 31351	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow)	Υ		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354.	27277 2396 5011 14646 36480 4961 31351	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana	Υ		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae	27277 2396 5011 14646 36480 4961 31351 5077	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata	Υ		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354.	27277 2396 5011 14646 36480 4961 31351 5077	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana	Υ		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355.	27277 2396 5011 14646 36480 4961 31351 5077	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata	Υ		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae	27277 2396 5011 14646 36480 4961 31351 5077	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar)	Υ		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356.	27277 2396 5011 14646 36480 4961 31351 5077 4516	Lysiana casuarinae 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		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae	27277 2396 5011 14646 36480 4961 31351 5077 4516	Lysiana casuarinae Guichenotia ledifolia Lagunaria patersonia Malva arborea (Tree Mallow) Malva parviflora (Marshmallow) Malva preissiana Thomasia cognata Melia azedarach (White Cedar)	Υ		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356.	27277 2396 5011 14646 36480 4961 31351 5077 4516	Lysiana casuarinae 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		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357.	27277 2396 5011 14646 36480 4961 31351 5077 4516 2845 40827	Lysiana casuarinae 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		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae 358.	27277 2396 5011 14646 36480 4961 31351 5077 4516 2845 40827	Lysiana casuarinae 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		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 356. 357. Moraceae 358. 359.	27277 2396 5011 14646 36480 4961 31351 5077 4516 2845 40827	Lysiana casuarinae 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		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 356. 357. Moraceae 358. 359. 360.	27277 2396 5011 14646 36480 4961 31351 5077 4516 2845 40827	Lysiana casuarinae 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		
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 356. 357. Moraceae 358. 359. 360. 361.	27277 2396 5011 14646 36480 4961 31351 5077 4516 2845 40827 1747	Lysiana casuarinae 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
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 356. 357. Moraceae 358. 359. 360.	27277 2396 5011 14646 36480 4961 31351 5077 4516 2845 40827 1747	Lysiana casuarinae 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
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 356. 357. Moraceae 358. 359. 360. 361.	27277 2396 5011 14646 36480 4961 31351 5077 4516 2845 40827 1747	Lysiana casuarinae 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
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae 358. 359. 360. 361. 362.	27277 2396 5011 14646 36480 4961 31351 5077 4516 2845 40827 1747	Lysiana casuarinae 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
346. 347. Loranthaceae 348. Malvaceae 349. 350. 351. 352. 353. 354. Meliaceae 355. Montiaceae 356. 357. Moraceae 358. 359. 360. 361. 362. Mychodeacea	27277 2396 5011 14646 36480 4961 31351 5077 4516 2845 40827 1747 47095	Lysiana casuarinae 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

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







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que
365.	17202	Agonis flexuosa var. flexuosa			
366.	5580	Eucalyptus camaldulensis (River Gum, Yabalinyba)			
367.	35345	Eucalyptus camaldulensis subsp. obtusa (Blunt-budded River Red Gum)			
368.	5615	Eucalyptus decipiens (Limestone Marlock, Moit)			
369.		Eucalyptus erythrocorys (Illyarrie)			
370.		Eucalyptus gomphocephala (Tuart, Duart)			
371.		Eucalyptus spathulata (Swamp Mallet)			
372.		Eucalyptus utilis			
			V		
373.		Melaleuca armillaris	Υ		
374.		Melaleuca huegelii (Chenille Honeymyrtle)			
375.		Melaleuca lanceolata (Rottnest Teatree, Moonah)			
376.	5943	Melaleuca nesophila (Mindiyed)			
Nitrariaceae	<u>.</u>				
377.		Nitraria billardierei (Nitre Bush)			
511.	4300	Tritiana binaralerer (Tritie Bush)			
Nizymeniac	eae				
378.		Nizymenia conferta			
379.		Nizymenia furcata			
0.0.	27.10.	They morna taroata			
Oleaceae					
380.	6503	Olea europaea (Olive)	Υ		
Orchidacea	~				
381.	1599	Caladenia latifolia (Pink Fairy Orchid)			
382.	10916	Cyrtostylis huegelii			
383.	1674	Prasophyllum giganteum (Bronze Leek Orchid)			
O==k = !					
Orobanchad					
384.	7122	Orobanche minor (Lesser Broomrape)	Υ		
385.	7089	Parentucellia latifolia (Common Bartsia)	Y		
Ovalidacoa	•				
Oxalidaceae					
386.		Oxalis corniculata (Yellow Wood Sorrel)	Y		
387.	30375	Oxalis exilis			
388.	4356	Oxalis pes-caprae (Soursob)	Υ		
Dovesennel	liaaaaa				
Peyssonnel	liaceae				
389.		Peyssonnelia inamoena			
390.		Peyssonnelia inamoena Peyssonnelia novae-hollandiae			
	27129				
390. 391.	27129 44731	Peyssonnelia novae-hollandiae			
390. 391. Phacelocar _l	27129 44731 paceae	Peyssonnelia novae-hollandiae Sonderophycus capensis			
390. 391. Phacelocar 392.	27129 44731 paceae 27133	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri			
390. 391. Phacelocar _l	27129 44731 paceae 27133	Peyssonnelia novae-hollandiae Sonderophycus capensis			
390. 391. Phacelocar 392. 393.	27129 44731 paceae 27133 27134	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri			
390. 391. Phacelocary 392. 393. Phyllanthac	27129 44731 paceae 27133 27134	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos			
390. 391. Phacelocarp 392. 393. Phyllanthac 394.	27129 44731 paceae 27133 27134 :eae 4675	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia)			
390. 391. Phacelocary 392. 393. Phyllanthac	27129 44731 paceae 27133 27134 :eae 4675	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos			
390. 391. Phacelocarp 392. 393. Phyllanthac 394.	27129 44731 paceae 27133 27134 :eae 4675	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia)			
390. 391. Phacelocarp 392. 393. Phyllanthac 394. 395. Pinaceae	27129 44731 paceae 27133 27134 ceae 4675 4688	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii	Y		
390. 391. Phacelocarp 392. 393. Phyllanthac 394. 395. Pinaceae 396.	27129 44731 paceae 27133 27134 ceae 4675 4688	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis	Y		
390. 391. Phacelocarp 392. 393. Phyllanthac 394. 395. Pinaceae	27129 44731 paceae 27133 27134 ceae 4675 4688	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii	Y Y		
390. 391. Phacelocarp 392. 393. Phyllanthac 394. 395. Pinaceae 396.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis			
390. 391. Phacelocarp 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis			
390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine)			
390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporac 398. Plantaginac	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium	Υ		
390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine)	Y		
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390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398. Plantaginac 399. 400.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 eeae 19745 ceae 4717 7053 7299	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax)	Y		
390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398. Plantaginac 399. 400. 401. 402.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745 ceae 4717 7053 7299 7303	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax) Plantago debilis	Y Y Y		
390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398. Plantaginac 399. 400. 401. 402. Plocamiace	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745 ceae 4717 7053 7299 7303	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax) Plantago debilis Plantago lanceolata (Ribwort Plantain)	Y Y Y		
390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398. Plantaginac 399. 400. 401. 402.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745 ceae 4717 7053 7299 7303	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax) Plantago debilis	Y Y Y		
390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398. Plantaginac 399. 400. 401. 402. Plocamiace	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745 ceae 4717 7053 7299 7303 cae 27154	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax) Plantago debilis Plantago lanceolata (Ribwort Plantain)	Y Y Y		
390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398. Plantaginac 399. 400. 401. 402. Plocamiace 403.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745 ceae 4717 7053 7299 7303 ceae 27154 27155	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax) Plantago debilis Plantago lanceolata (Ribwort Plantain)	Y Y Y		
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390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398. Plantaginace 400. 401. 402. Plocamiace 403. 404. 405. 406.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745 ceae 4717 7053 7299 7303 ceae 27154 27155 27156	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax) Plantago debilis Plantago lanceolata (Ribwort Plantain) Plocamium angustum Plocamium mertensii	Y Y Y		
390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398. Plantaginace 400. 401. 402. Plocamiace 403. 404. 405. 406. Poaceae	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745 ceae 4717 7053 7299 7303 ceae 27154 27155 27156	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax) Plantago debilis Plantago lanceolata (Ribwort Plantain) Plocamium angustum Plocamium mertensii	Y Y Y		
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390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398. Plantaginace 400. 401. 402. Plocamiace 403. 404. 405. 406. Poaceae 407.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745 ceae 4717 7053 7299 7303 cae 27154 27155 27156 27157	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax) Plantago debilis Plantago lanceolata (Ribwort Plantain) Plocamium angustum Plocamium cartilagineum Plocamium mertensii Plocamium preissianum Aira cupaniana (Silvery Hairgrass) Austrostipa elegantissima	Y Y Y		
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390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporace 398. Plantaginace 400. 401. 402. Plocamiace 403. 404. 405. 406. Poaceae 407. 408. 409. 410. 411.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 eae 19745 ceae 4717 7053 7299 7303 eae 27154 27155 27156 27157 185 17237 17240	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax) Plantago debilis Plantago lanceolata (Ribwort Plantain) Plocamium angustum Plocamium mertensii Plocamium preissianum Aira cupaniana (Silvery Hairgrass) Austrostipa elegantissima Austrostipa flavescens Austrostipa sp. Avellinia michelii	Y Y Y		
390. 391. Phacelocary 392. 393. Phyllanthac 394. 395. Pinaceae 396. 397. Pittosporac 398. Plantaginac 400. 401. 402. Plocamiace 403. 404. 405. 406. Poaceae 407. 408. 409. 410.	27129 44731 paceae 27133 27134 ceae 4675 4688 17671 88 ceae 19745 ceae 4717 7053 7299 7303 cae 27154 27155 27156 27157 185 17237 17240 231 233	Peyssonnelia novae-hollandiae Sonderophycus capensis Phacelocarpus labillardieri Phacelocarpus peperocarpos Phyllanthus calycinus (False Boronia) Poranthera drummondii Pinus halepensis Pinus radiata (Radiata Pine) Pittosporum ligustrifolium Callitriche stagnalis (Common Starwort) Cymbalaria muralis (Ivyleaf Toadflax) Plantago debilis Plantago lanceolata (Ribwort Plantain) Plocamium angustum Plocamium cartilagineum Plocamium mertensii Plocamium preissianum Aira cupaniana (Silvery Hairgrass) Austrostipa elegantissima Austrostipa flavescens Austrostipa sp.	Y Y Y		



	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
414.	245	Briza minor (Shivery Grass)	Υ		
415.	247	Bromus arenarius (Sand Brome)			
416.	249	Bromus diandrus (Great Brome)	Υ		
417.	250	Bromus hordeaceus (Soft Brome)	Υ		
418.	252	Bromus madritensis (Madrid Brome)	Υ		
419.	253	Bromus rubens (Red Brome)	Υ		
420.	13685	Catapodium rigidum (Rigid Fescue)	Υ		
421.	41564	Cenchrus clandestinus (Kikuyu Grass)	Υ		
422.	277	Cortaderia selloana (Pampas Grass)	Υ		
423.	283	Cynodon dactylon (Couch)	Υ		
424.	346	Ehrharta brevifolia (Annual Veldt Grass)	Υ		
425.	11485	Ehrharta brevifolia var. cuspidata	Υ		
426.	349	Ehrharta longiflora (Annual Veldt Grass)	Υ		
427.	376	Eragrostis curvula (African Lovegrass)	Υ		
428.	449	Hordeum leporinum (Barley Grass)	Υ		
429.	30331	Lachnagrostis nesomytica			Υ
430.	30332	Lachnagrostis nesomytica subsp. nesomytica		P1	Υ
431.	30333	Lachnagrostis nesomytica subsp. pseudofiliformis		P1	Υ
432.	467	Lagurus ovatus (Hare's Tail Grass)	Υ		
433.	478	Lolium rigidum (Wimmera Ryegrass)	Υ		
434.	485	Microlaena stipoides (Weeping Grass)			
435.	516	Parapholis incurva (Coast Barbgrass)	Υ		
436.		Poa annua (Winter Grass)	Υ		
437.	577	Poa poiformis (Coastal Poa)			
438.	581	Polypogon maritimus (Coast Beardgrass)	Υ		
439.		Polypogon maritimus var. subspatheaceus	Υ		
440.		Polypogon monspeliensis (Annual Beardgrass)	Y		
441.		Polypogon tenellus			
442.		Rostraria cristata	Y		
443.		Rytidosperma occidentale	•		
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)	Y		
449.		Vulpia fasciculata	Y		
450.		Vulpia muralis	Y		
451.		Vulpia myuros (Rat's Tail Fescue)	Y		
452.		Vulpia myuros forma megalura	Y		
			·		
Polygalaceae	•				
453.		Comesperma confertum			
454.	4555	Comesperma integerrimum			
Polyidaceae					
455.	27220	Rhodopeltis australis			
456.		Rhodopeltis borealis			
		Throughout Soreano			
Polyphysace	ae				
457.	48409	Acetabularia caliculus			
Portulacacea	Δ.				
458.		Portulaca oleracea (Purslane, Wakati)			
-√JU.	2004	. S. C. Cara Colorado a franciario, Franciari			
Posidoniacea	ae				
459.	123	Posidonia australis (Fibreball Weed)			
460.	105	Posidonia coriacea			
Dotomogoton					
Potamogetor		Althonia musicali			
461.	40020	Althenia preissii			
Pottiaceae					
462.	36219	Pseudocrossidium hornschuchianum			
463.	32438	Syntrichia pagorum			
464.		Weissia controversa			
Darlance					
Primulaceae	36375	Lysimachia arvensis (Pimpernel)	Y		
465.		Samolus repens (Creeping Brookweed)			
465. 466.	6484				
465. 466. Ranunculace	6484 ae	Clematis linearifolia			
465. 466. Ranunculace 467.	6484 ae 10804	Clematis linearifolia			
465. 466. Ranunculace	6484 * ae 10804 2935				

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	ame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Quer Area
Resedaceae	0005	Decade the (Milita Minimage)	.,		
470.		Reseda alba (White Mingnonette)	Y		
471.	3085	Reseda luteola (Wild Mingnonette)	Υ		
Rhamnaceae					
472.	4822	Rhamnus alaternus (Buckthorn)	Υ		
473.	4828	Spyridium globulosum (Basket Bush)			
Dhadamalaaa					
Rhodomelacea					
474.		Acanthophora dendroides			
475.		Amansia serrata			
476.		Dictyomenia sonderi			
477.		Ditria expleta			
478. 479.		Endosiphonia spinulosa			
480.		Herposiphonia versicolor Holotrichia comosa			
481. 482.		Kuetzingia canaliculata			
		Laurencia brongniartii			
483.		Laurencia dendroidea			
484.		Laurencia elata			
485.		Laurencia filiformis			
486.		Laurencia forsteri			
487.		Leveillea jungermannioides			
488.		Neurymenia fraxinifolia			
489.		Pollexfenia pedicellata			
490.		Polysiphonia australiensis			
491.		Polysiphonia forfex			
492.		Polysiphonia sertularioides			
493.		Protokuetzingia australasica			
494.		Tolypiocladia calodictyon			
495.		Tolypiocladia glomerulata			
496.	27360	Vidalia spiralis			
Rhodymeniace	eae				
497.		Botryocladia leptopoda			
498.		Botryocladia sonderi			
499.		Chamaebotrys boergesenii			Υ
500.		Coelarthrum cliftonii			
501.		Coelarthrum opuntia			
502.	26864	Gloiosaccion brownii			
503.		Halopeltis australis			
Rubiaceae 504.	7323	Galium murale (Small Goosegrass)	Y		
504.	7323	Galium murale (Small Goosegrass)	Υ		
504. Ruppiaceae			Υ		
504. Ruppiaceae 505.	116	Ruppia polycarpa	Y		
504. Ruppiaceae	116		Υ		
504. Ruppiaceae 505.	116	Ruppia polycarpa	Υ		
504. Ruppiaceae 505. 506.	116 117	Ruppia polycarpa	Y		
504. Ruppiaceae 505. 506. Rutaceae	116 117 4403	Ruppia polycarpa Ruppia tuberosa	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508.	116 117 4403	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia)	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae	116 117 4403 4454	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena)	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508.	116 117 4403 4454	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia)	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae	116 117 4403 4454 4754 ae	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena)	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510.	116 117 4403 4454 4754 ae 27229	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush)	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace	116 117 4403 4454 4754 ae 27229	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510.	116 117 4403 4454 4754 ae 27229	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush)	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511.	116 117 4403 4454 4754 ae 27229	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511.	116 117 4403 4454 4754 ae 27229 eae 27144	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511. Scinaiaceae	116 117 4403 4454 4754 ae 27229 eae 27144	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511. Scinaiaceae 512. 513.	116 117 4403 4454 4754 ae 27229 eae 27144 27269 27270	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum Scinaia aborealis	Y		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511. Scinaiaceae 512. 513. Scrophulariace	116 117 4403 4454 4754 ae 27229 eae 27144 27269 27270 eae	Ruppia polycarpa Ruppia tuberosa Boronia alata (Winged Boronia) Diplolaena dampieri (Southern Diplolaena) Dodonaea aptera (Coast Hop-bush) Sarcomenia delesserioides Platoma cyclocolpum Scinaia aborealis Scinaia tsinglanensis			
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511. Scinaiaceae 512. 513. Scrophulariace 514.	116 117 4403 4454 4754 ae 27229 eae 27144 27269 27270 eae 7054	Ruppia polycarpa 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		
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511. Scinaiaceae 512. 513. Scrophulariace 514. 515.	116 117 4403 4454 4754 ae 27229 eae 27144 27269 27270 eae 7054 7215	Ruppia polycarpa 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)			
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511. Scinaiaceae 512. 513. Scrophulariace 514. 515. 516.	116 117 4403 4454 4754 ae 27229 eae 27144 27269 27270 eae 7054 7215 17175	Ruppia polycarpa 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			
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511. Scinaiaceae 512. 513. Scrophulariace 514. 515. 516. 517.	116 117 4403 4454 4754 ae 27229 eae 27144 27269 27270 eae 7054 7215 17175 7289	Ruppia polycarpa 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)			
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511. Scinaiaceae 512. 513. Scrophulariace 514. 515. 516.	116 117 4403 4454 4754 ae 27229 eae 27144 27269 27270 eae 7054 7215 17175 7289	Ruppia polycarpa 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			
504. Ruppiaceae 505. 506. Rutaceae 507. 508. Sapindaceae 509. Sarcomeniace 510. Schizymeniace 511. Scinaiaceae 512. 513. Scrophulariace 514. 515. 516. 517.	116 117 4403 4454 4754 ae 27229 eae 27144 27269 27270 eae 7054 7215 17175 7289	Ruppia polycarpa 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)			

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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	Nanagaialithan 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		
Valania					
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 4
5 - Priority 5

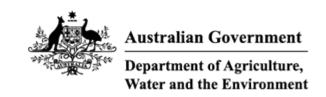




¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records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



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
Commonwealth Reserves Terrestrial: Australian Marine Parks:	None 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		[Re	source Information
Status of Conservation Dependent and Ex Number is the current name ID.	xtinct are not MNES unde	er the EPBC Act.	
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 leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In feature area
<u>Charadrius mongolus</u> 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
<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
Halobaena caerulea Blue Petrel [1059]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Limosa Iapponica 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 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
<u>Charadrius bicinctus</u> 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
<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
<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

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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
Delphinus delphis 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
Tursiops aduncus 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			<pre>[Resource Information]</pre>
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 Not controlled action	Reference	Referral Outcome	Assessment Status	Buffer Status
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

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

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

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