

Biodiversity Assessment

2 Bloodwood Road, Ingleside



Project Name	#2 Bloodwood Rd, Ingleside
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Project Number	#24
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Prepared by	Waratah Eco Works
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Status	Draft
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Version Number	#2
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1.2 Project Location and Context

The subject site is located in Ingleside, a suburb in the Northern Beaches Council area, Sydney (Figure 2). The site is a private property at Lot 1 Sec DP 416586 .

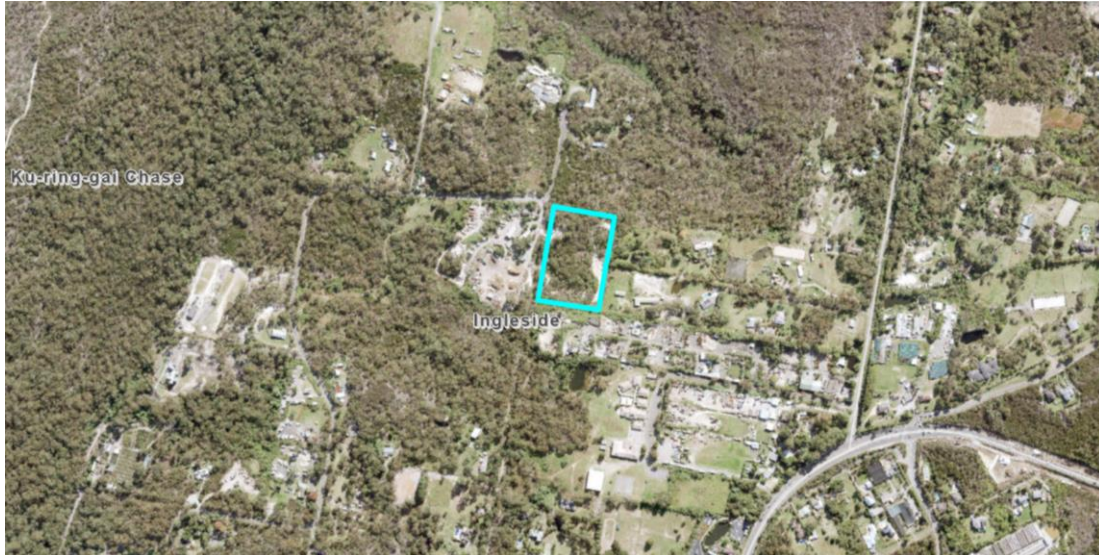


Figure 2- Site location on Sydney's Northern Beaches

2.Existing Environment and Site Description

2.1 Site Description

The property is approximately 6 acres in size and consists of remnant bushland with a small, cleared area, currently used as a car park. A concrete driveway runs along the northern boundary of the property, with Bloodwood Road running along the western boundary.

The site of the proposed development has been cleared in the past and is currently being used as a car park. The proposed building backs on to intact remnant bushland on the eastern side with the footprint of the building on a degraded, weed infested area on the western side of the property.

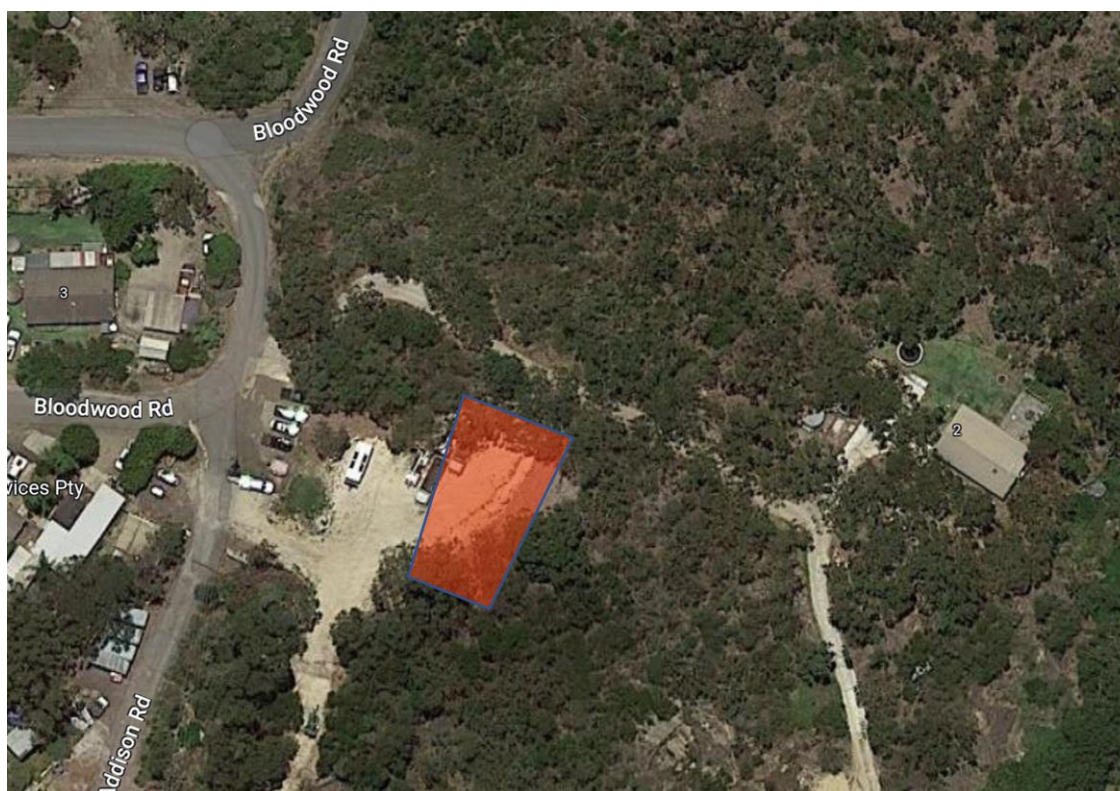


Figure 3- Approximate footprint of building over previously cleared/disturbed land.

2.1.2 Vegetation Classification

One Plant Community Type (PCT) is mapped on the site – Sydney Coastal Sandstone Bloodwood Forest. The classification of this community under various legislation is listed in table below. See Appendix for full species list. This plant community has an associated Threatened Ecological Community (TEC) Profile ID 10254 Duffys Forest Ecological Community.

PCT Name	PCTId	Vegetation Formation	Vegetation Class
Sydney Coastal Sandstone Bloodwood Forest	3593	Dry Sclerophyll Forests (Shrubby sub- formation)	Sydney Dry Sclerophyll Forests

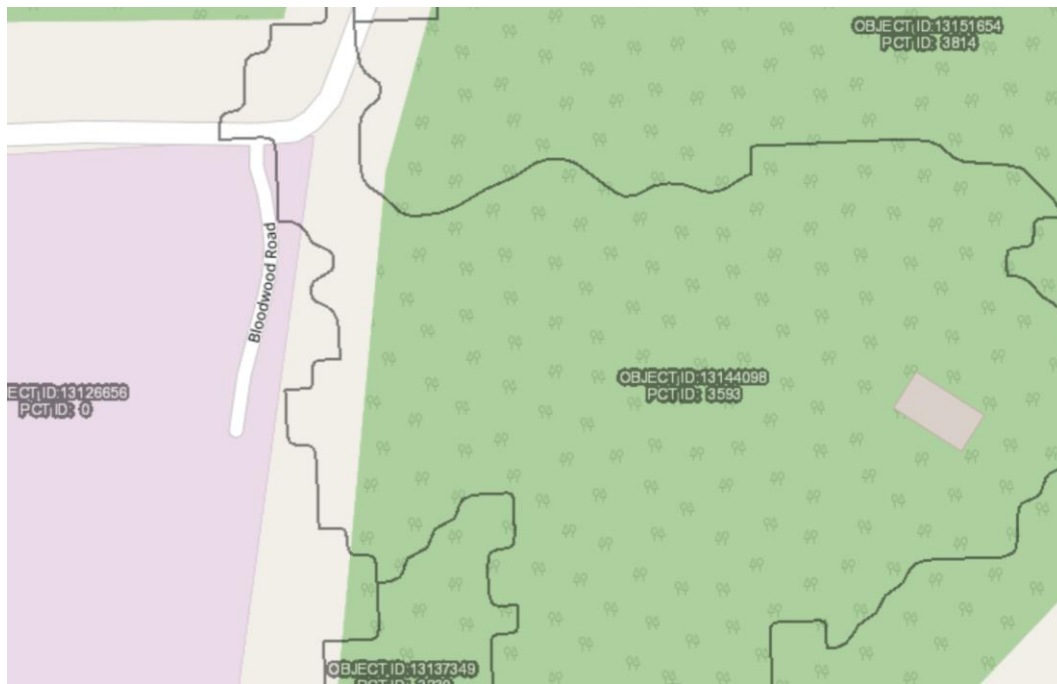


Figure 4- Plant Community Type 3593



Photo 1- Looking north across proposed building footprint.



Photo 2-Looking south across proposed buildings footprint.

2.1.3 Site Condition

The remnant bushland on the site is in fair condition with some invasive weed species present, particularly around the edges. A rock outcrop is present east of (above) the proposed building site that creates a buffer between the disturbed car park area and the core bushland (photo 4). The core areas of bush are relatively weed free, but some weed control work would be beneficial, working from good bush out.

Cleared areas west of the proposed building location have had weed control conducted but experience ongoing annual weed flushes. This area has an effluent management area proposed and should be densely planted with suitable locally indigenous vegetation.

2.3.4 Exotic vegetation including Priority Weeds and Weeds of National Significance

The *Biosecurity Act 2015* and regulations provide specific legal requirements for State level priority weeds. Priority weed hierarchical order based on management objective; Prevention, Eradication, Containment and Asset Protection (Greater Sydney Regional Strategic Weed Management Plan 2017-2022).

From a site inspection twenty-nine exotic flora species were recorded (see below). Two Weeds of National Significance (WONS) were found that also have State Objectives in the Greater Sydney Regional Strategic Weed Management Plan 2017-2022.



Photo 3- *Relativley intact bushland east of the proposed building site, with some weed species present.*



Photo 4- *Rock outcrop east of proposed building site creating a buffer between disturbed area and core bushland.*

Scientific Name	Common Name	WoNS	State Priority Weed Objective	Regional Objective	Priority	Other weeds of Regional Concern, Asset/value at risk
HERBACEOUS						
<i>Agapanthus praecox</i> subsp. <i>orientalis</i>	Agapanthus	-	-	-		Environment
<i>Ageratina adenophora</i>	Crofton Weed	-	-	-		Environment, Agriculture
<i>Ageratina riparia</i>	Mistflower	-	-	-		Environment, Agriculture
<i>Ageratum houstonianum</i>	Blue Billygoat Weed	-	-	-		
<i>Bidens pilosa</i>	Cobbler's Pegs	-	-	-		
<i>Bryophyllum delagoense</i>	Mother of Millions	-	-	-		Environment, Agriculture. Human health
<i>Colocasia esculenta</i>	Taro	-	-	-		
<i>Conyza</i> sp.	Fleabanes	-	-	-		
<i>Hedychium gardnerianum</i>	Ginger Lilly	-	-	-		Environment
<i>Fumaria</i> sp.	Fumitory	-	-			
<i>Gallinsoga parviflora</i>	Gallant Solider	-	-			
<i>Gamochaeta</i> sp.	Cudweeds	-	-			
<i>Nandina domestica</i>	Scared Bamboo	-	-			
<i>Pheonix canariensis</i>	Canary Island Date Palm	-	-	-		Environment
<i>Polycarpon tetraphyllum</i>	Four-leaf Allseed	-	-			
<i>Rumex saggitatus</i>	Turkey Rhubarb	-	-	-		Environment
<i>Strelitzia</i> spp.	Bird of Paradise	-	-	-		-
<i>Tradescantia fluminensis</i>	Trad	-	-	-		Environment
WOODY WEEDS						
<i>Asparagus aethiopicus</i>	Asparagus Fern	Yes	Asset Protection	-		-
<i>Cestrum parqui</i>	Green cestrum	-	-	Asset Protection		Environment
<i>Cinnamomum camphora</i>	Camphor Laurel	-	-	-		Environment, Agriculture, Human Health
<i>Ligustrum lucidum</i>	Large-leaved Privet	-	-	-		Environment, Human Health
<i>Ligustrum sinense</i>	Small-leaved Privet	-	-	-		Environment, Human Health
<i>Lantana camara</i>	Lantana	Yes	Asset Protection	-		
<i>Ochna serrulata</i>	Mickey Mouse Plant	-	-	-		Environment
<i>Senna pendula</i>	Cassia	-	-	-		Environment
<i>Solanum mauritianum</i>	Wild Tobacco Bush	-	-	-		Environment, Agriculture
OTHER						
<i>Araujia sericifera</i>	Moth Vine	-	-	-		Environment
<i>Ehrharta erecta</i>	Panic Veldtgrass	-	-	-		-
<i>Nephrolepis cordifolia</i>	Fishbone Fern	-	-	-		Environment

3. Threatened Species Search

All information (Species Names, Common Name, *Biodiversity Conservation Act 2016*, EPBC Act and Habitat Requirements) is taken from the Atlas of NSW Wildlife Database:

<http://www.bionet.nsw.gov.au/> Species listed are from a 10 x 10km area surrounding the study site. Species listed under the Sensitive Species Data Policy may have their locations denatured. Search criteria: Public Report of all Valid Records of Animals in selected area [North: -33.61 West 151.23 East 151.23 South -33.71] returned a total of 17 species recorded in the area.

An assessment of the likelihood of occurrence was made for threatened species identified in database search of the Atlas of NSW Wildlife (BioNet). The number of records within 10km of the proposed work site have been listed. Habitat requirements and if they are present in the proposed work area are noted. This information has been extracted from the NSW Threatened Species Profiles. Results of the site inspection and professional judgment gives the likelihood of occurrence. Five terms are used, defined as follows:

- “known” = the species was or has been observed on the site
- “likely” = a medium to high probability that a species uses the site
- “potential” = suitable habitat for a species occurs on the site, but there is insufficient information to categorize the species as likely to occur, or unlikely to occur
- “unlikely” = a very low probability that the species uses the site
- “no” = habitat on the site and in the vicinity is unsuitable for the species

3.1 Threatened Fauna Desktop Survey

Within 10km of proposed work area seventy six threatened species were found in a desktop survey. In close proximity to site and likely to potential to occur are the following species (for full list and details see Appendix):

Common Name	Species Name	BC Act 2016	EPBC Act 1999 or migratory species listed under EPBC Act or other	Likelihood of Occurrence
Red-crowned Toadlet	<i>Pseudophryne australis</i>	Vulnerable	Not listed	Potential
Giant Burrowing Frog	<i>Heleioporus australiacus</i>	Vulnerable	Vulnerable	Potential
Rosenberg's Goanna	<i>Varanus gouldii</i>	Vulnerable	Not listed	Potential
White-bellied Sea-Eagle	<i>Haliaeetus leucogaster</i>	Vulnerable	Not listed	Potential
Eastern Osprey	<i>Pandion cristatus</i>	Vulnerable	Not listed	Potential
Glossy Black-Cockatoo	<i>Calyptorhynchus lathami</i>	Vulnerable	Not listed	Potential
Little Lorikeet	<i>Glossopsitta pusilla</i>	Vulnerable	Not listed	Potential
Swift Parrot	<i>Lathamus discolor</i>	Endangered	Critically endangered	Potential
Barking Owl	<i>Ninox connivens</i>	Vulnerable	Not listed	Likely

Powerful Owl	<i>Ninox strenua</i>	Vulnerable	Not listed	Likely
Masked Owl	<i>Tyto novaehollandiae</i>	Vulnerable	Not listed	Potential
Varied Sittella	<i>Daphoenositta chrysoptera</i>	Vulnerable	Not listed	Potential
Southern Brown Bandicoot	<i>Isodon obesulus obesulus</i>	Endangered	Endangered	Potential
Eastern Pygmy-possum	<i>Cercartetus nanus</i>	Vulnerable	Not listed	Potential
Squirrel Glider	<i>Petaurus norfolcensis</i>	Vulnerable	Not listed	Potential
Grey-headed Flying-Fox	<i>Pteropus poliocephalus</i>	Vulnerable	Vulnerable	Potential
Eastern Coastal Free-tailed Bat	<i>Micronomus norfolkensis</i>	Vulnerable	Not listed	Potential
Large-eared Pied Bat	<i>Chalinolobus dwyeri</i>	Vulnerable	Vulnerable	Potential
Greater Broad-nosed Bat	<i>Scotoplanax rueppellii</i>	Vulnerable	Not listed	Potential
Little Bent-winged Bat	<i>Miniopterus australis</i>	Vulnerable	Not listed	Potential
Large Bent-winged Bat	<i>Miniopterus orianae oceanensis</i>	Vulnerable	Not listed	Potential

3.2 Threatened Flora Search

All information (Species Names, Common Name, *Biodiversity Conservation Act 2016*, EPBC Act and Habitat Requirements) is taken from the Atlas of NSW Wildlife Database:
<http://www.bionet.nsw.gov.au/> Species listed are from a 10 x 10km area surrounding the study site.

Within 10km of proposed work area 17 threatened species were found in a desktop survey. In close proximity to the site and likely or potential to occur on the site are the following three species;

Species Name	Common Name	BC Status	EPBC Status	No. of records within 10km radius of proposed work area	Likelihood of occurrence
<i>Tetratheca glandulosa</i>		V	-	53	Potential (not found)
<i>Microtis angusii</i>	Onion Orchid	E	E	165	Potential (not found)
<i>Grevillea caleyi</i>	Caley's Grevillea	CE	CE	458	Potential (not found)

4. Conclusions/Recommendations

- From the plans provided and through onsite inspections it does not appear that the proposed building will have any negative impact on the local biodiversity.
- Clearing of undisturbed core bushland will not be required as the site is on a disturbed weed infested area.
- Ongoing weed control on the building site and in core areas of bushland surrounding the site should continue throughout the project and will be beneficial to the bushland condition.
- Landscape areas associated with the project should be planted out with locally indigenous species (4.1 see below) extracted from the species list in Appendix A.
- The effluent management area should be densely planted with suitable locally indigenous species (4.1 see below).

4.1 Recommended species for planting

Recommended Species for Landscape areas	Recommended Species for Effluent Management Area
<i>Eucalyptus punctata</i>	<i>Schoenus imberbis</i>
<i>Banksia serrata</i>	<i>Ficinia nodosa</i>
<i>Angophora costata</i>	<i>Juncus kraussii</i>
<i>Banksia ericifolia</i>	<i>Juncus usitatus</i>
<i>Acacia ulicifolia</i>	<i>Gahnia clarkei</i>
<i>Actinotus helianthi</i>	<i>Baloskion tetraphyllum</i>
<i>Platysace linearifolia</i>	
<i>Banksia spinulosa</i>	
<i>Lomandra longifolia</i>	
<i>Dianella caerulea</i>	
<i>Grevillea buxifolia</i>	
<i>Grevillea sericea</i>	
<i>Themedeia australis</i>	

5. References

Biodiversity Conservation Act 2016

Biosecurity Act 2015

Chapman G. A. and Murphy C. L. (1989) Soil Landscapes of the Sydney Region: Report. *Office of Environment and Heritage*.

DEC (2004) Threatened Species Survey and Assessment: Guidelines for developments and activities (working draft), New South Wales Department of Environment and Conservation, Hurstville, NSW.

Environment Protection and Biodiversity Conservation Act 1999

New South Wales Government Department of Finance and Services Spatial Information eXchange
<https://maps.six.nsw.gov.au/>

New South Wales Government Department of Planning and Environment Planning Portal
<https://www.planingportal.nsw.gov.au/>

New South Wales Government Local Land Services Greater Sydney. Greater Sydney Regional Strategic Weed Management Plan 2017-2022 Revised July 2021

New South Wales Environment and Heritage BioNet Atlas <http://www.bionet.nsw.gov.au/>

New South Wales Guide to Surveying Threatened Plants (2016)

New South Wales Office of Environment and Heritage eSPADE 2.0
<http://www.environment.nsw.gov.au/eSpade2Webapp>

New South Wales Department of Environment & Conservation, (2005), Guidelines for Threatened Species Assessment.

OEH (2017) Threatened Community Profile: Pittwater and Wagstaffe Spotted Gum Forest in the Sydney Basin Bioregion
<https://www.environment.nsw.gov.au/threatenedspeciesapp/profile.aspx?id=10634>

Pittwater LEP 2014

Standards Reference Group (2021) National Standards for the Practice of Ecological Restoration in Australia. Edition 2.2 Society for Ecological Restoration Australasia. Available from URL: <http://www.seraustralasia.com/standards/home.html>

6. Appendix

Appendix A. PCT 3593 Species List

Tree (TG)	Banksia serrata
Tree (TG)	Eucalyptus haemastoma
Tree (TG)	Angophora costata
Tree (TG)	Allocasuarina littoralis
Tree (TG)	Eucalyptus sieberi
Tree (TG)	Ceratopetalum gummiferum
Tree (TG)	Eucalyptus oblonga
Tree (TG)	Eucalyptus piperita
Tree (TG)	Corymbia eximia
Tree (TG)	Eucalyptus punctata
Tree (TG)	Angophora hispida
Tree (TG)	Eucalyptus capitellata
Tree (TG)	Eucalyptus sparsifolia
Tree (TG)	Eucalyptus racemosa
Tree (TG)	Eucalyptus umbra
Tree (TG)	Angophora bakeri
Tree (TG)	Syncarpia glomulifera
Tree (TG)	Angophora crassifolia
Tree (TG)	Eucalyptus globoidea
Tree (TG)	Eucalyptus luehmanniana
Tree (TG)	Glochidion ferdinandi
Tree (TG)	Acacia parramattensis
Tree (TG)	Eucalyptus pilularis
Tree (TG)	Eucalyptus scias
Tree (TG)	Eucalyptus squamosa
Tree (TG)	Acacia elata
Tree (TG)	Acacia linearifolia
Tree (TG)	Acacia melanoxylon
Tree (TG)	Angophora floribunda
Tree (TG)	Eucalyptus agglomerata
Tree (TG)	Eucalyptus camfieldii
Tree (TG)	Eucalyptus haemastoma x racemosa
Tree (TG)	Eucalyptus multicaulis
Tree (TG)	Eucalyptus resinifera
Tree (TG)	Eucalyptus sclerophylla
Tree (TG)	Eucalyptus stricta
Tree (TG)	Notelaea longifolia
Shrub (SG)	Leptospermum trinervium
Shrub (SG)	Lambertia formosa

Shrub (SG)	Platysace linearifolia
Shrub (SG)	Persoonia levis
Shrub (SG)	Grevillea buxifolia
Shrub (SG)	Banksia spinulosa
Shrub (SG)	Phyllanthus hirtellus
Shrub (SG)	Petrophile pulchella
Shrub (SG)	Hakea dactyloides
Shrub (SG)	Acacia suaveolens
Shrub (SG)	Epacris pulchella
Shrub (SG)	Bossiaea heterophylla
Shrub (SG)	Dillwynia retorta
Shrub (SG)	Monotoca scoparia
Shrub (SG)	Conospermum longifolium
Shrub (SG)	Hakea sericea
Shrub (SG)	Phyllota phyllicoides
Shrub (SG)	Acacia ulicifolia
Shrub (SG)	Persoonia pinifolia
Shrub (SG)	Micrantheum ericoides
Shrub (SG)	Lomatia silaifolia
Shrub (SG)	Boronia ledifolia
Shrub (SG)	Hibbertia bracteata
Shrub (SG)	Grevillea sericea
Shrub (SG)	Gompholobium grandiflorum
Shrub (SG)	Isopogon anemonifolius
Shrub (SG)	Banksia ericifolia
Shrub (SG)	Boronia pinnata
Shrub (SG)	Pimelea linifolia
Shrub (SG)	Pultenaea tuberculata
Shrub (SG)	Acacia linifolia
Shrub (SG)	Acacia myrtifolia
Shrub (SG)	Bossiaea obcordata
Shrub (SG)	Hibbertia aspera
Shrub (SG)	Hakea teretifolia
Shrub (SG)	Banksia oblongifolia
Shrub (SG)	Leucopogon microphyllus
Shrub (SG)	Bossiaea scolopendria
Shrub (SG)	Lasiopetalum ferrugineum
Shrub (SG)	Eriostemon australasius
Shrub (SG)	Woollisia pungens
Shrub (SG)	Hibbertia empetrifolia subsp. empetrifolia
Shrub (SG)	Xylomelum pyriforme
Shrub (SG)	Leptospermum polygalifolium
Shrub (SG)	Amperea xiphoclada
Shrub (SG)	Acacia terminalis
Shrub (SG)	Tetradlea thymifolia
Shrub (SG)	Pultenaea ferruginea
Shrub (SG)	Hibbertia linearis

Shrub (SG)	<i>Dodonaea triquetra</i>
Shrub (SG)	<i>Gompholobium latifolium</i>
Shrub (SG)	<i>Comesperma ericinum</i>
Shrub (SG)	<i>Tetradlea ericifolia</i>
Shrub (SG)	<i>Isopogon anethifolius</i>
Shrub (SG)	<i>Grevillea speciosa</i>
Shrub (SG)	<i>Brachyloma daphnoides</i>
Shrub (SG)	<i>Tetradlea glandulosa</i>
Shrub (SG)	<i>Telopea speciosissima</i>
Shrub (SG)	<i>Persoonia isophylla</i>
Shrub (SG)	<i>Baeckea diosmifolia</i>
Shrub (SG)	<i>Persoonia lanceolata</i>
Shrub (SG)	<i>Hakea gibbosa</i>
Shrub (SG)	<i>Pultenaea rosmarinifolia</i>
Shrub (SG)	<i>Pultenaea linophylla</i>
Shrub (SG)	<i>Pittosporum undulatum</i>
Shrub (SG)	<i>Kunzea ambigua</i>
Shrub (SG)	<i>Boronia floribunda</i>
Shrub (SG)	<i>Banksia marginata</i>
Shrub (SG)	<i>Pultenaea stipularis</i>
Shrub (SG)	<i>Leucopogon ericoides</i>
Shrub (SG)	<i>Grevillea linearifolia</i>
Shrub (SG)	<i>Dillwynia floribunda</i>
Shrub (SG)	<i>Styphelia tubiflora</i>
Shrub (SG)	<i>Ricinocarpos pinifolius</i>
Shrub (SG)	<i>Platysace ericoides</i>
Shrub (SG)	<i>Persoonia linearis</i>
Shrub (SG)	<i>Allocasuarina distyla</i>
Shrub (SG)	<i>Acacia longifolia</i>
Shrub (SG)	<i>Aotus ericoides</i>
Shrub (SG)	<i>Bossiaea stephensonii</i>
Shrub (SG)	<i>Elaeocarpus reticulatus</i>
Shrub (SG)	<i>Hibbertia monogyna</i>
Shrub (SG)	<i>Leptospermum arachnoides</i>
Shrub (SG)	<i>Leptospermum squarrosum</i>
Shrub (SG)	<i>Phyllota grandiflora</i>
Shrub (SG)	<i>Calytrix tetragona</i>
Shrub (SG)	<i>Daviesia corymbosa</i>
Shrub (SG)	<i>Dillwynia sericea</i>
Shrub (SG)	<i>Hakea bakeriana</i>
Shrub (SG)	<i>Lissanthe strigosa</i>
Shrub (SG)	<i>Philotheca buxifolia</i>
Shrub (SG)	<i>Rhytidium procumbens</i>
Shrub (SG)	<i>Acacia oxycedrus</i>
Shrub (SG)	<i>Bossiaea ensata</i>
Shrub (SG)	<i>Crocea saligna</i>
Shrub (SG)	<i>Cryptandra amara</i>

Shrub (SG)	<i>Epacris microphylla</i>
Shrub (SG)	<i>Gompholobium glabratum</i>
Shrub (SG)	<i>Hemigenia purpurea</i>
Shrub (SG)	<i>Hibbertia obtusifolia</i>
Shrub (SG)	<i>Leptomeria acida</i>
Shrub (SG)	<i>Leucopogon muticus</i>
Shrub (SG)	<i>Mirbelia rubiifolia</i>
Shrub (SG)	<i>Ola stricta</i>
Shrub (SG)	<i>Polyscias sambucifolia</i>
Shrub (SG)	<i>Styphelia laeta</i>
Shrub (SG)	<i>Tetratheca neglecta</i>
Shrub (SG)	<i>Acacia hispidula</i>
Shrub (SG)	<i>Bossiaea lenticularis</i>
Shrub (SG)	<i>Cassinia denticulata</i>
Shrub (SG)	<i>Dillwynia elegans</i>
Shrub (SG)	<i>Epacris longiflora</i>
Shrub (SG)	<i>Grevillea caleyi</i>
Shrub (SG)	<i>Grevillea mucronulata</i>
Shrub (SG)	<i>Hakea propinqua</i>
Shrub (SG)	<i>Lasiopetalum rufum</i>
Shrub (SG)	<i>Ozothamnus diosmifolius</i>
Shrub (SG)	<i>Persoonia laurina</i>
Shrub (SG)	<i>Pultenaea daphnoides</i>
Shrub (SG)	<i>Zieria laevigata</i>
Shrub (SG)	<i>Bauera rubioides</i>
Shrub (SG)	<i>Conospermum ericifolium</i>
Shrub (SG)	<i>Darwinia fascicularis</i>
Shrub (SG)	<i>Daviesia alata</i>
Shrub (SG)	<i>Euryomyrtus ramosissima</i>
Shrub (SG)	<i>Grevillea diffusa</i>
Shrub (SG)	<i>Hibbertia diffusa</i>
Shrub (SG)	<i>Hibbertia fasciculata</i>
Shrub (SG)	<i>Hibbertia riparia</i>
Shrub (SG)	<i>Kunzea capitata</i>
Shrub (SG)	<i>Leucopogon esquamatus</i>
Shrub (SG)	<i>Petrophile sessilis</i>
Shrub (SG)	<i>Phebalium squamulosum</i>
Shrub (SG)	<i>Platysace lanceolata</i>
Shrub (SG)	<i>Pultenaea flexilis</i>
Shrub (SG)	<i>Pultenaea polifolia</i>
Shrub (SG)	<i>Tetratheca shiressii</i>
Shrub (SG)	<i>Acacia echinula</i>
Shrub (SG)	<i>Acrotriche divaricata</i>
Shrub (SG)	<i>Astroloma pinifolium</i>
Shrub (SG)	<i>Banksia paludosa</i>
Shrub (SG)	<i>Boronia fraseri</i>
Shrub (SG)	<i>Callistemon linearis</i>

Shrub (SG)	<i>Dillwynia rudis</i>
Shrub (SG)	<i>Gompholobium aspalathoides</i>
Shrub (SG)	<i>Grevillea oldei</i>
Shrub (SG)	<i>Grevillea phyllicoides</i>
Shrub (SG)	<i>Hibbertia cistiflora</i> subsp. <i>cistiflora</i>
Shrub (SG)	<i>Hibbertia procumbens</i>
Shrub (SG)	<i>Leucopogon appressus</i>
Shrub (SG)	<i>Leucopogon setiger</i>
Shrub (SG)	<i>Leucopogon virgatus</i>
Shrub (SG)	<i>Melichrus procumbens</i>
Shrub (SG)	<i>Micromyrtus ciliata</i>
Shrub (SG)	<i>Mirbelia speciosa</i>
Shrub (SG)	<i>Philotheca hispidula</i>
Shrub (SG)	<i>Philotheca scabra</i>
Shrub (SG)	<i>Platylobium formosum</i>
Shrub (SG)	<i>Poranthera corymbosa</i>
Shrub (SG)	<i>Zieria pilosa</i>
Shrub (SG)	<i>Zieria smithii</i>
Shrub (SG)	<i>Acacia brownii</i>
Shrub (SG)	<i>Acacia buxifolia</i>
Shrub (SG)	<i>Acacia filicifolia</i>
Shrub (SG)	<i>Acacia floribunda</i>
Shrub (SG)	<i>Acacia implexa</i>
Shrub (SG)	<i>Acacia longissima</i>
Shrub (SG)	<i>Acacia mearnsii</i>
Shrub (SG)	<i>Acacia parvipinnula</i>
Shrub (SG)	<i>Astroloma humifusum</i>
Shrub (SG)	<i>Astrotricha floccosa</i>
Shrub (SG)	<i>Astrotricha longifolia</i>
Shrub (SG)	<i>Astrotricha obovata</i>
Shrub (SG)	<i>Baeckea brevifolia</i>
Shrub (SG)	<i>Baeckea imbricata</i>
Shrub (SG)	<i>Baeckea linifolia</i>
Shrub (SG)	<i>Bauera microphylla</i>
Shrub (SG)	<i>Bossiaea rhombifolia</i>
Shrub (SG)	<i>Callicoma serratifolia</i>
Shrub (SG)	<i>Callistemon citrinus</i>
Shrub (SG)	<i>Callistemon linearifolius</i>
Shrub (SG)	<i>Cassinia aculeata</i>
Shrub (SG)	<i>Cassinia cunninghamii</i>
Shrub (SG)	<i>Choretrum candollei</i>
Shrub (SG)	<i>Conospermum tenuifolium</i>
Shrub (SG)	<i>Cryptandra ericoides</i>
Shrub (SG)	<i>Darwinia biflora</i>
Shrub (SG)	<i>Daviesia acicularis</i>
Shrub (SG)	<i>Daviesia ulicifolia</i>
Shrub (SG)	<i>Dillwynia glaberrima</i>

Shrub (SG)	<i>Dodonaea camfieldii</i>
Shrub (SG)	<i>Dodonaea pinnata</i>
Shrub (SG)	<i>Dodonaea viscosa</i>
Shrub (SG)	<i>Dracophyllum secundum</i>
Shrub (SG)	<i>Epacris paludosa</i>
Shrub (SG)	<i>Epacris purpurascens</i>
Shrub (SG)	<i>Exocarpos cupressiformis</i>
Shrub (SG)	<i>Exocarpos strictus</i>
Shrub (SG)	<i>Gompholobium minus</i>
Shrub (SG)	<i>Gompholobium pinnatum</i>
Shrub (SG)	<i>Gompholobium virgatum</i>
Shrub (SG)	<i>Grevillea capitellata</i>
Shrub (SG)	<i>Grevillea oleoides</i>
Shrub (SG)	<i>Grevillea rosmarinifolia</i>
Shrub (SG)	<i>Grevillea sphacelata</i>
Shrub (SG)	<i>Hibbertia acicularis</i>
Shrub (SG)	<i>Hibbertia circumdans</i>
Shrub (SG)	<i>Hibbertia nitida</i>
Shrub (SG)	<i>Hibbertia saligna</i>
Shrub (SG)	<i>Hibbertia serpyllifolia</i>
Shrub (SG)	<i>Hibbertia villosa</i>
Shrub (SG)	<i>Homalanthus populifolius</i>
Shrub (SG)	<i>Hovea lanceolata</i>
Shrub (SG)	<i>Hovea longifolia</i>
Shrub (SG)	<i>Hovea purpurea</i>
Shrub (SG)	<i>Lasiopetalum joyceae</i>
Shrub (SG)	<i>Lasiopetalum parviflorum</i>
Shrub (SG)	<i>Leptospermum continentale</i>
Shrub (SG)	<i>Leptospermum parvifolium</i>
Shrub (SG)	<i>Leucopogon amplexicaulis</i>
Shrub (SG)	<i>Leucopogon lanceolatus</i>
Shrub (SG)	<i>Logania albiflora</i>
Shrub (SG)	<i>Melaleuca deanei</i>
Shrub (SG)	<i>Micromyrtus blakelyi</i>
Shrub (SG)	<i>Nematolepis squamea</i> subsp. <i>squamea</i>
Shrub (SG)	<i>Olearia microphylla</i>
Shrub (SG)	<i>Olearia tomentosa</i>
Shrub (SG)	<i>Philotheca salsolifolia</i>
Shrub (SG)	<i>Prostanthera denticulata</i>
Shrub (SG)	<i>Pultenaea paleacea</i>
Shrub (SG)	<i>Pultenaea retusa</i>
Shrub (SG)	<i>Pultenaea scabra</i>
Shrub (SG)	<i>Sannantha pluriflora</i>
Shrub (SG)	<i>Sphaerolobium minus</i>
Shrub (SG)	<i>Sphaerolobium vimineum</i>
Shrub (SG)	<i>Styphelia longifolia</i>
Shrub (SG)	<i>Styphelia triflora</i>

Shrub (SG)	Synoum glandulosum subsp. glandulosum
Shrub (SG)	Westringia lucida
Fern (EG)	Lindsaea linearis
Fern (EG)	Pteridium esculentum
Fern (EG)	Lindsaea microphylla
Fern (EG)	Schizaea bifida
Fern (EG)	Selaginella uliginosa
Fern (EG)	Schizaea dichotoma
Fern (EG)	Cheilanthes sieberi subsp. sieberi
Fern (EG)	Gleichenia dicarpa
Fern (EG)	Blechnum cartilagineum
Fern (EG)	Sticherus flabellatus var. flabellatus
Fern (EG)	Psilotum nudum
Fern (EG)	Lycopodium deuterodensum
Fern (EG)	Lycopodiella cernua
Fern (EG)	Adiantum hispidulum
Grass & grasslike (GG)	Entolasia stricta
Grass & grasslike (GG)	Cyathochaeta diandra
Grass & grasslike (GG)	Lomandra glauca
Grass & grasslike (GG)	Lomandra obliqua
Grass & grasslike (GG)	Anisopogon avenaceus
Grass & grasslike (GG)	Lepyrodia scariosa
Grass & grasslike (GG)	Caustis flexuosa
Grass & grasslike (GG)	Lepidosperma laterale
Grass & grasslike (GG)	Austrostipa pubescens
Grass & grasslike (GG)	Schoenus imberbis
Grass & grasslike (GG)	Lomandra filiformis
Grass & grasslike (GG)	Lomandra gracilis
Grass & grasslike (GG)	Tetrarrhena juncea
Grass & grasslike (GG)	Lomandra cylindrica
Grass & grasslike (GG)	Lomandra multiflora subsp. multiflora
Grass & grasslike (GG)	Lomandra longifolia
Grass & grasslike (GG)	Ptilothrix deusta
Grass & grasslike (GG)	Schoenus ericetorum
Grass & grasslike (GG)	Microlaena stipoides
Grass & grasslike (GG)	Lomandra confertifolia
Grass & grasslike (GG)	Lomandra brevis
Grass & grasslike (GG)	Caustis pentandra
Grass & grasslike (GG)	Lepidosperma filiforme
Grass & grasslike (GG)	Themeda triandra
Grass & grasslike (GG)	Panicum simile
Grass & grasslike (GG)	Imperata cylindrica
Grass & grasslike (GG)	Eragrostis brownii
Grass & grasslike (GG)	Entolasia marginata
Grass & grasslike (GG)	Schoenus apogon

Grass & grasslike (GG)	Aristida vagans
Grass & grasslike (GG)	Xyris gracilis
Grass & grasslike (GG)	Schoenus brevifolius
Grass & grasslike (GG)	Rytidosperma pallidum
Grass & grasslike (GG)	Lepidosperma concavum
Grass & grasslike (GG)	Lepyrodia muelleri
Grass & grasslike (GG)	Leptocarpus tenax
Grass & grasslike (GG)	Hypolaena fastigiata
Grass & grasslike (GG)	Gahnia sieberiana
Grass & grasslike (GG)	Gahnia erythrocarpa
Grass & grasslike (GG)	Empodisma minus
Grass & grasslike (GG)	Aristida ramosa
Grass & grasslike (GG)	Tricostularia pauciflora
Grass & grasslike (GG)	Schoenus melanostachys
Grass & grasslike (GG)	Rytidosperma tenuius
Grass & grasslike (GG)	Paspalidium distans
Grass & grasslike (GG)	Lomandra micrantha subsp. tuberculata
Grass & grasslike (GG)	Lepidosperma urophorum
Grass & grasslike (GG)	Austrostipa rudis
Grass & grasslike (GG)	Xyris complanata
Grass & grasslike (GG)	Tetraria capillaris
Grass & grasslike (GG)	Schoenus turbinatus
Grass & grasslike (GG)	Schoenus lepidosperma
Grass & grasslike (GG)	Rytidosperma longifolium
Grass & grasslike (GG)	Poa sieberiana
Grass & grasslike (GG)	Plinthanthesis paradoxa
Grass & grasslike (GG)	Lepidosperma viscidum
Grass & grasslike (GG)	Lepidosperma gunnii
Grass & grasslike (GG)	Gahnia melanocarpa
Grass & grasslike (GG)	Gahnia clarkei
Grass & grasslike (GG)	Entolasia whiteana
Grass & grasslike (GG)	Echinopogon ovatus
Grass & grasslike (GG)	Echinopogon caespitosus
Grass & grasslike (GG)	Dichelachne micrantha
Grass & grasslike (GG)	Deyeuxia decipiens
Grass & grasslike (GG)	Cynodon dactylon
Grass & grasslike (GG)	Chordifex dimorphus
Grass & grasslike (GG)	Caustis recurvata
Grass & grasslike (GG)	Baumea rubiginosa
Grass & grasslike (GG)	Baumea acuta
Grass & grasslike (GG)	Baloskion tetraphyllum
Grass & grasslike (GG)	Baloskion pallens
Grass & grasslike (GG)	Austrostipa scabra
Grass & grasslike (GG)	Aristida warburgii
Grass & grasslike (GG)	Aristida benthamii
Forb (FG)	Dampiera stricta

Forb (FG)	Actinotus minor
Forb (FG)	Patersonia glabrata
Forb (FG)	Xanthosia tridentata
Forb (FG)	Hovea linearis
Forb (FG)	Patersonia sericea
Forb (FG)	Dianella caerulea
Forb (FG)	Xanthosia pilosa
Forb (FG)	Gonocarpus teucrioides
Forb (FG)	Dianella prunina
Forb (FG)	Scaevola ramosissima
Forb (FG)	Goodenia heterophylla
Forb (FG)	Goodenia bellidifolia
Forb (FG)	Dianella revoluta
Forb (FG)	Brunoniella pumilio
Forb (FG)	Actinotus helianthi
Forb (FG)	Mitrasacme polymorpha
Forb (FG)	Cryptostylis erecta
Forb (FG)	Pomax umbellata
Forb (FG)	Stylidium productum
Forb (FG)	Cryptostylis subulata
Forb (FG)	Caesia parviflora
Forb (FG)	Hybanthus monopetalus
Forb (FG)	Poranthera ericifolia
Forb (FG)	Patersonia longifolia
Forb (FG)	Goodenia hederacea
Forb (FG)	Thysanotus tuberosus
Forb (FG)	Opercularia aspera
Forb (FG)	Laxmannia gracilis
Forb (FG)	Haemodorum planifolium
Forb (FG)	Drosera peltata
Forb (FG)	Dampiera purpurea
Forb (FG)	Stylidium lineare
Forb (FG)	Stylidium graminifolium
Forb (FG)	Stackhousia viminea
Forb (FG)	Lagenophora stipitata
Forb (FG)	Drosera auriculata
Forb (FG)	Dianella longifolia
Forb (FG)	Tricoryne simplex
Forb (FG)	Pseuderanthemum variabile
Forb (FG)	Opercularia varia
Forb (FG)	Opercularia diphylla
Forb (FG)	Logania pusilla
Forb (FG)	Lobelia andrewsii
Forb (FG)	Gonocarpus tetragynus
Forb (FG)	Burchardia umbellata
Forb (FG)	Viola hederacea
Forb (FG)	Veronica plebeia

Forb (FG)	Tricoryne elatior
Forb (FG)	Trachymene incisa subsp. incisa
Forb (FG)	Thysanotus juncifolius
Forb (FG)	Thelymitra ixioides var. ixioides
Forb (FG)	Stypandra glauca
Forb (FG)	Stylidium laricifolium
Forb (FG)	Stackhousia monogyna
Forb (FG)	Sowerbaea juncea
Forb (FG)	Senecio hispidulus
Forb (FG)	Pterostylis acuminata
Forb (FG)	Poranthera microphylla
Forb (FG)	Opercularia hispida
Forb (FG)	Mitrasacme pilosa
Forb (FG)	Lobelia trigonocaulis
Forb (FG)	Lobelia purpurascens
Forb (FG)	Hypoxis hygrometrica
Forb (FG)	Hydrocotyle tripartita
Forb (FG)	Haemodorum corymbosum
Forb (FG)	Goodenia paniculata
Forb (FG)	Goodenia decurrens
Forb (FG)	Glossodia minor
Forb (FG)	Glossodia major
Forb (FG)	Genoplesium fimbriatum
Forb (FG)	Galium leiocarpum
Forb (FG)	Euchiton sphaericus
Forb (FG)	Drosera spatulata
Forb (FG)	Diuris aurea
Forb (FG)	Dipodium variegatum
Forb (FG)	Dipodium punctatum
Forb (FG)	Dichondra repens
Forb (FG)	Dianella tasmanica
Forb (FG)	Dendrobium speciosum
Forb (FG)	Dampiera scottiana
Forb (FG)	Cryptostylis leptochila
Forb (FG)	Comesperma sphaerocarpum
Forb (FG)	Comesperma breviflorum
Forb (FG)	Caleana major
Forb (FG)	Caladenia catenata
Forb (FG)	Brunoniella australis
Forb (FG)	Bossiaea prostrata
Forb (FG)	Blandfordia nobilis
Forb (FG)	Blandfordia grandiflora
Forb (FG)	Acianthus fornicatus
Forb (FG)	Acianthus caudatus
Other (OG)	Xanthorrhoea media
Other (OG)	Billardiera scandens

Other (OG)	Cassytha pubescens
Other (OG)	Cassytha glabella
Other (OG)	Smilax glycyphylla
Other (OG)	Xanthorrhoea resinosa
Other (OG)	Doryanthes excelsa
Other (OG)	Xanthorrhoea arborea
Other (OG)	Xanthorrhoea latifolia
Other (OG)	Xanthorrhoea concava
Other (OG)	Hardenbergia violacea
Other (OG)	Cymbidium suave
Other (OG)	Calochlaena dubia
Other (OG)	Parsonsia straminea
Other (OG)	Kennedia rubicunda
Other (OG)	Comesperma volubile
Other (OG)	Xanthorrhoea minor
Other (OG)	Xanthorrhoea fulva
Other (OG)	Smilax australis
Other (OG)	Pandorea pandorana subsp. pandorana
Other (OG)	Muellerina eucalyptoides
Other (OG)	Marsdenia suaveolens
Other (OG)	Marsdenia flavescens
Other (OG)	Macrozamia communis
Other (OG)	Hibbertia dentata
Other (OG)	Glycine clandestina
Other (OG)	Cyathea cooperi
Other (OG)	Clematis glycinoides
Other (OG)	Cissus hypoglauca